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ABSTRACT

A standardized and comprehensive school bus driver instructional program has been developed under contract with the Federal Government. The course has been organized to provide in one package a program for developing the minimum skills and knowledge needed by the school bus driver, as well as those supplemental skills and knowledge which the proficient driver might require. This trainee study guide is designed for use by the students as a pre-class assignment, as a textbook/notebook during instruction, and a reference book after instruction. The book covers the five units of core materials and contains the same content as the instructor's guide, with the exception of the notes and directions for the instructor. (Author/MLF)

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SCHOOL BUS DRIVER INSTRUCTIONAL PROGRAM

trainee study guide



U.S. DEPARTMENT OF TRANSPORTATION

NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
WASHINGTON, D.C. 20590

June 1974

ER 006 313

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INTRODUCTION TO TRAINEE STUDY GUIDE

The United States is one of the few countries in the world that tries to educate all of its children. It's a huge job; and it would be impossible without the means to get the children to and from school. The pupil transportation system plays a key role in this mass education effort. When you take on the job of driving a school bus, it's up to you to make sure the children get to school and back--safely. How well you drive your bus is always on the minds of the parents of your passengers. Clearly, you want to do the best job possible.

Driving a school bus is much different from driving a car or a truck--special skills and judgments are necessary. So, the course you are about to take was prepared especially for school bus drivers, not truck drivers or automobile drivers. It contains school bus driver instructional materials from all over the country which were edited, adapted, and put together under one cover. Whether you've never yet driven a school bus or whether you're a "veteran," you'll find material in this course that will help you.

The course is divided into two main sections: Core Units and Advanced Units. The Core Units cover the "minimum" skills and knowledge you should have before you drive a school bus. The Advanced Units cover advanced driving techniques and special subjects such as First Aid. The materials in all units were set up so that they can be adapted to include or emphasize the required practices in your district. Thus, the specific materials your instructor will choose to cover depends on your local needs and on your level of expertise.

This Study Guide covers a lot of material but you don't have to memorize anything. You'll use it in class as you go through the units and you may take it home to use as a reference. You'll be participating in this course, not just listening to a lecture. You'll use this Study Guide as a workbook. You can write in it--take notes on additional information your instructor will cover.

Flip through one of the units. Each unit has a table of contents, objectives (what you should learn) and the lesson material itself with a column for taking notes. Also, you'll notice that each unit has review questions to answer so you can tell how you're doing. The answers are in separate sections at the end of the Core Units and the Advanced Units. Another thing you'll find is that the course isn't all "book-learning." You will have opportunities to try out the procedures during "in-bus" practice.

You may find that you already know a lot of the things that are covered. And, you'll probably learn some new things too. Don't expect to cover everything at once. You won't become an expert overnight. It's a lot to learn but one thing is sure. When it comes to being responsible for children's lives, as well as your own, there is no such thing as being too good!

CORE UNIT A
INTRODUCTION TO
SCHOOL BUS DRIVER ROLE AND RESPONSIBILITY

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OBJECTIVES

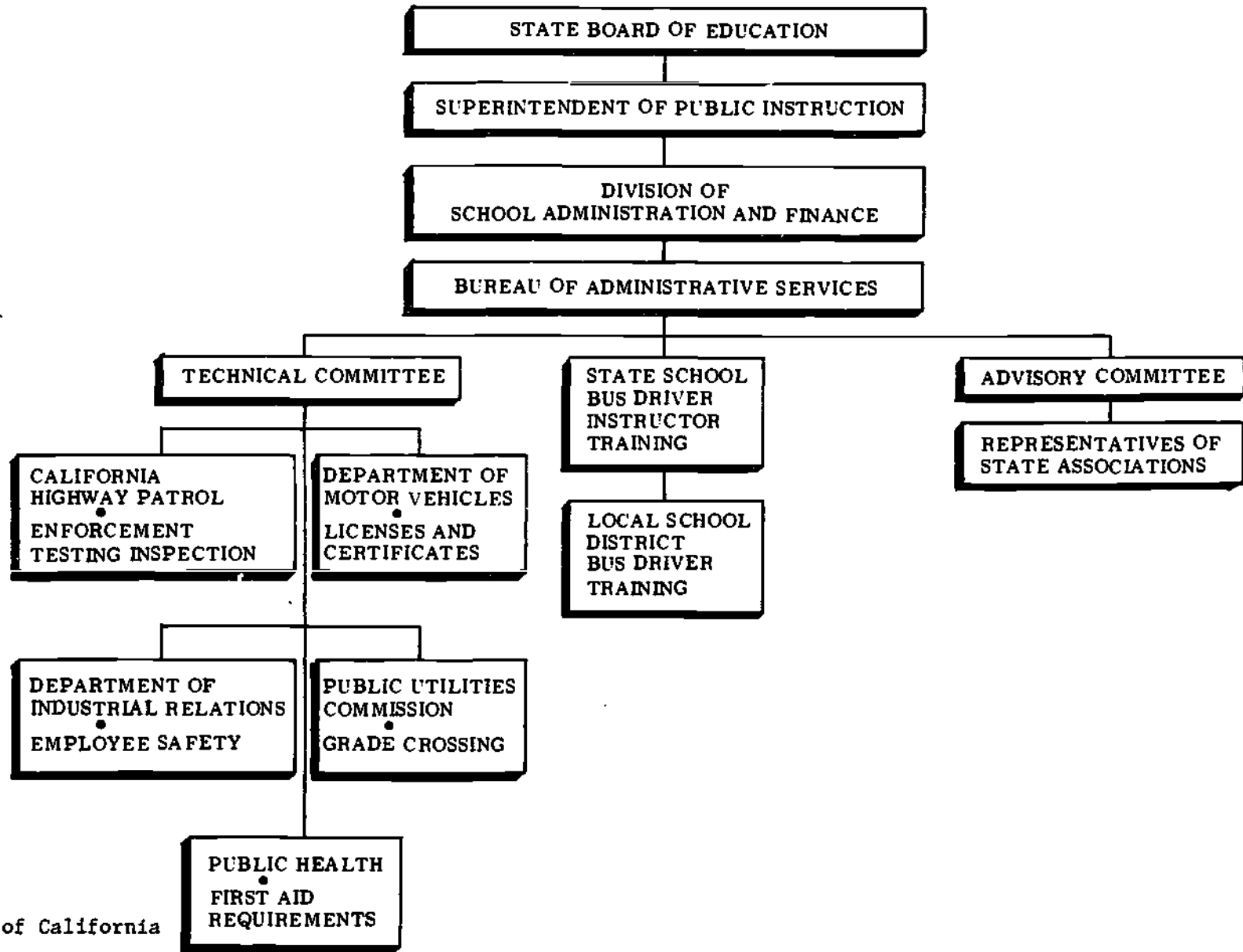
By the end of this unit, you should be able to:

1. Describe the responsibilities of members of the Pupil Transportation System.
2. Describe the requirements for selection and licensing of school bus drivers.
3. Identify how emotional and physical characteristics affect your driving.

OVERVIEW

NOTES	CONTENT
	<p><i>Before you get behind the wheel of a school bus, there is a great deal you need to know about yourself, your responsibilities, and those with whom you work.</i></p> <p>The transportation of pupils to and from school is a necessary part of an educational program. Competent school bus drivers and standard operation of buses must be realized if a safe, efficient, and economical transportation program is to be realized.</p> <p>Learning to drive a vehicle the size of a school bus is a difficult task, involving knowledge of related information, visual skills, judgments, decisions and accurate responses. The way in which you <u>learn</u> to perform this sort of task will have a marked effect on your on-the-job performance.</p> <ol style="list-style-type: none">1. You are important. It is evident that You, the school bus driver, are a very important person with a responsible part to play in our educational system. In most instances, you will be the first representative of the school system to meet the children in the morning and the last to see them at night. While the children are on the bus, their safety is in your hands.2. You are responsible. Like the captain of a ship, the school bus driver is responsible for efficient and economical operation, for the safety of passengers and the vehicle, and for good order and discipline; in short, for operating a "happy ship." You can successfully accomplish this assignment and be respected and appreciated as a person who is

STATE ORGANIZATIONAL CHART FOR THE SUPERVISION OF PUPIL TRANSPORTATION*



Core A-4

* From state of California

Figure 1. Sample State Organizational Chart for the Supervision of Pupil Transportation

NOTES	CONTENT
	<p>performing a difficult and necessary service. You are in a position to have a large influence on a child's attitude toward school.</p> <p>3. You are a member of the "safety team."</p> <p>Perhaps in no other area of education does a local board of education or school administrative staff accept more responsibility for student life and welfare than during the mass movement of children in school transportation vehicles on the public highways, streets, and roads of your state. Therefore, as a member of the "safety team," it appears essential not only to provide adequate equipment, but to constantly strive to improve operational safety and efficiency.</p> <p>In the core level of this course you'll cover five units:</p> <ul style="list-style-type: none"> A. Introduction to School Bus Driver Role and Responsibility B. Passenger Control C. Accidents and Emergencies D. Bus Maintenance and Inspection E. Driving Fundamentals <p>NOTES:</p>

WHO	AREAS OF RESPONSIBILITY
Pupil Transportation Director	
Supervisor	
Driver	
Auxiliary Personnel (mechanics, etc.)	

Figure 2. Chain of Command

YOUR WORK *

YOUR RESPONSIBILITY	Safety and efficiency in operating a school bus to transport precious lives daily requires dedicated personnel. The health, safety, and welfare of students is at stake.
YOUR EMPLOYER	The school district (or private contractor) has responsibility for hiring you and making sure you carry out your responsibility.
YOUR SUPERVISOR	You as a bus driver need to cooperate with and exhibit loyalty to your supervisor. You must use equipment properly in regard to safety of all persons and other vehicles at all times and in all places.
YOUR PASSENGERS	You should have sympathetic understanding of problems, moods, and individual differences of students.
PARENTS	Your communication to parents, knowledge of school policy and bus safety rules promotes a cooperative state of mind that will build safety habits in a child.
YOUR FELLOW EMPLOYEES	You must have sincere respect of others and be cooperative in your relationship to those with whom you work.
YOUR SELF	You must be sure you're in the proper physical and mental condition to conduct a safe trip--every day.
YOUR VEHICLE	You must make sure that your vehicle is road-worthy before each trip.
YOUR PUBLIC	The community may judge the school by the way you drive, talk, and look. You are a Public Relations agent.

* Adapted from state of Michigan (7)

Figure 3. You and Your Work

YOUR WORK—A WORD OF EXPLANATION*

NOTES	CONTENT
	<p>YOUR RESPONSIBILITY</p> <p><i>A professional school bus driver must be willing to accept responsibility.</i></p> <p>When you drive a busload of children to school every day in all kinds of hazardous highway and weather conditions, you are charged with a grave responsibility.</p> <p>Just like a ship's captain or an airline pilot, precious human lives depend upon <u>your</u> experience, skill, judgment, and attitude.</p> <p>The vital link to safety, proper driver attitude, knowledge, and skill, is not just acquired but must be developed through your interest in safe driving. Not only with intensive pre-employment training but with continual in-service activities do you upgrade your ability to cope with the constantly changing driving environment. You must be constantly re-evaluating your driving technique.</p> <p>YOUR EMPLOYER</p> <p>YOUR SUPERVISOR</p> <p>Someone in your school district or company is assigned the responsibility of supervising you as an employee. He is another member of the "safety team"</p> <hr/> <p>* Adapted from state of Michigan (7)</p>

NOTES	CONTENT
	<p>and is vitally interested in the safety of your riders as well as efficiency and economy of operation. He needs your cooperation. <u>You must be willing to:</u></p> <ol style="list-style-type: none"> 1. Accept responsibility. 2. Accept authority. 3. Exhibit interest in employment assignments 4. Learn and accept training continuously. 5. Carry out assignments completely and cheerfully. 6. Gain a working knowledge of written school policy. 7. Communicate with your supervisor. 8. Communicate and discuss problems of discipline, condition of bus, condition of highway, changing conditions of various stops for pick up and discharge of passengers with your supervisor. <p>YOUR PASSENGERS</p> <p>You may establish a positive relationship with your passengers that no other school person does. Your passengers' conduct will depend a great deal on what you say or do.</p> <ol style="list-style-type: none"> 1. You should greet passengers in a friendly manner. 2. You should use reasonable discipline procedures. 3. You should recognize that students growing up are in a state of physical change and emotional unrest.

NOTES	CONTENT
	<ol style="list-style-type: none"> 4. You should realize that the average student wants to be treated <u>fairly, equally, and as an adult.</u> 5. Most of your students desire recognition of their good traits and abilities. 6. You must maintain a businesslike yet frierndly relationship with all students. 7. You should compliment good conduct, abilities, habits, dress, good deeds, etc., of your passengers. <p>PARENTS</p> <p>Most parents are vitally concerned with the safety of their children and will be a positive force in assisting you with problems on the bus. Occasionally through lack of information or misunderstanding, some parents may react negatively. Learn how to properly inform and work with parents.</p> <ol style="list-style-type: none"> 1. Your discussion concerning a school official or school policy with distraught parents should be done without malice. 2. You should not repeat rumors or idle gossip but rather communicate facts to proper authorities. 3. You can impress upon parents that they have the responsibility to have children at the bus stop on time. 4. You have a responsibility to the parents and your riders to be on time, courteous, and cooperative.

NOTES

CONTENT

5. You shall exercise maximum safety by practicing and displaying good and proper driving at all times.
6. You should be receptive to parents' and students' suggestions that contribute to the orderly operation of your bus.
7. You should recognize when you need assistance from school officials in solving parent, passenger, or driver conflicts.
8. Parents should realize that passengers are expected to sit, be reasonably quiet without causing a disturbance throughout the bus ride.

YOUR FELLOW EMPLOYEES

The people with whom you work usually desire the same courtesy and friendliness that you do. You can help to make their job, as well as yours, a rewarding experience.

1. Be courteous at all times.
2. Be helpful to other school employees.
3. Aid other drivers in checking out lights and use proper driving practices in the area of other buses.
4. Cooperate to promote a congenial working environment by refraining from personal attacks, but rather compliment good work and deeds.

YOURSELF

No one knows "the real you" as well as you do. Therefore, it is important that you honestly evaluate

NOTES	CONTENT
	<p>yourself to be sure that you are physically and mentally prepared for driving your bus.</p> <ol style="list-style-type: none"> 1. You must be sufficiently rested to be free from fatigue. 2. You must be free from adverse effects of drugs, medication, or alcohol. 3. Your personal appearance, grooming, and language must be acceptable within your community. 4. You must exhibit the mature mental adjustment and emotional stability needed to cope with unexpected and unusual situations. 5. You must have interest in the welfare and needs of others. 6. You must be willing to <u>practice</u> patience and understanding. <p>YOUR VEHICLE</p> <p>Your bus is a special vehicle. It is expensive and designed with many special safety features to protect the children you transport. You must be sure that your bus is kept in safe condition--ready to do the job.</p> <ol style="list-style-type: none"> 1. Type I:* <p>Any motor vehicle with motive power except a trailer, used to carry more than 16 pupils to and from school. This definition includes vehicles that are at any time used to carry school children and school personnel exclusively, and does not include</p> <hr/> <p>*From NHTSA Standard 17 (13).</p>

NOTES

CONTENT

vehicles that only carry school children along with other passengers as a part of the operations of a common carrier. Must meet identification and equipment requirements.

2. Type II:

Any motor vehicle used to carry 16 or fewer pupils to or from school. This does not include private motor vehicles used to carry members of the owner's household.

Must meet same identification requirements as Type I, or must have no identification or operable equipment, such as stop arms, etc.

3. Warning Signal System--4-light or 8-light system:

YOUR PUBLIC

Public relations is the opinion people have of us individually, of us as a part of our school system, and of the school system itself.

NOTES	CONTENT
	<p>1. Courtesy</p> <p>By the way you do your daily job, you each contribute favorably or unfavorably to public relations. The careful, courteous driver makes good impressions. The careless, thoughtless driver creates harmful impressions. For example, if you weave in and out of traffic, you attract more unfavorable attention and more comment than the driver who observes proper lane usage and conforms to speed limits. One discourteous, irresponsible act reflects an unfavorable image on other members of the pupil transportation team.</p> <p>Each driver is important in the public relations picture. Give thought for a few moments to these facts:</p> <ol style="list-style-type: none"> a. Each driver represents his school system before the public. b. How you act is reflected in public opinion on school matters. c. Drivers in running their daily routes have more contact with the public than does any other school group since: <ol style="list-style-type: none"> (1) Large numbers of student riders are involved. (2) Large numbers of motorists view the school buses. d. Observers expect proficient driving, take good performance for granted, and are usually quick to complain of poor performance.

NOTES	CONTENT
	<p>2. Performance</p> <p>You should learn to call every student who rides your bus by his first name. Your expression of interest in each child will assist you in gaining the confidence of your riders--and their parents.</p> <p>3. Communication</p> <p>You should talk to the individual rider, explain requirements to him and secure his cooperation as a follow-up to group instructions. This type of communication between driver and passenger should be a constant activity. Help passengers to understand and voluntarily follow what is generally considered to be normal and proper behavior on the school bus.</p> <p>4. Enforcement Officers</p> <p>You should consider enforcement officers part of the "safety team." Their job, as well as yours, is to assure safety on the highways. Their authority and experience may be invaluable to you.</p> <p>5. Attitude</p> <p>Building desirable public relations is a continuous process. It depends much on the attitude each one brings to his work each day. The driver who is proud of his part will not intentionally hurt his system's reputation; he will add to it.</p> <p>This sustains public relations--the good opinion of the public and of fellow workers.</p>

NOTES	CONTENT
	<p>The term "public relations" is misleading because it suggests good relations with only the public. But good relations within one's organization are essential, too. Public relations begins with fellow drivers, teachers, principals, supervisors, the superintendent, and Board of Education members. An organization whose members have mutual friendliness, interest, and respect has met a major requirement of good public relations.</p> <p>NOTES:</p>

SELECTION OF THE SCHOOL BUS DRIVER*

NOTES	CONTENT
	<p data-bbox="535 302 1399 523">Many persons are selected as new school bus drivers each year. Local school districts and/or private contractors have the responsibility of hiring drivers based on their local recruitment and selection policies.</p> <p data-bbox="535 588 632 619">NOTES:</p> <hr data-bbox="535 1862 746 1870"/> <p data-bbox="550 1876 1110 1917">* Adapted from state of Michigan (7)</p>

FEDERAL STANDARDS FOR DRIVER SELECTION

NOTES	CONTENT
	<p data-bbox="525 298 1359 419">An excerpt from Standard 17 on Pupil Transportation Safety, of the Highway Safety Program, states that:</p> <p data-bbox="652 455 1389 576">Every person who drives a Type I or Type II school vehicle occupied by school pupils shall, as a minimum:</p> <ol data-bbox="652 612 1380 1137" style="list-style-type: none">1. Have a valid state driver's license to operate such a vehicle(s);2. Meet all special physical, mental, and moral requirements established by the state agency having primary responsibility for pupil transportation; and3. Be qualified as a driver under the Motor Carrier Safety Regulations of the Federal Highway Administration <u>49 CFR 391</u>, if he or his employer is subject to those regulations. <p data-bbox="525 1201 620 1231">NOTES:</p>

INTERPRETATION OF FEDERAL STANDARD 17*

NOTES	CONTENT
	<p data-bbox="560 298 816 328">DRIVER SELECTION</p> <ol style="list-style-type: none"><li data-bbox="605 364 1402 862">1. School vehicle drivers should be in good physical condition, of good character, skilled in the operation of their vehicles and in personal relationships with the children they carry. They should be people with morals above reproach, even in temperament, have the ability to adjust to the varying conditions of their job and with positive attitudes toward safety. Their traffic records should be free from arrests, crashes, and warning notices for a period of at least three years.<li data-bbox="605 899 1387 1679">2. Because the bus driving job is generally a part-time job, the population from which drivers can be selected is limited to those who can leave their regular daily activities for several hours in the morning and again in the late afternoon. Each person applying for a bus driving position should complete an application blank which asks for at least the following information:<ol style="list-style-type: none"><li data-bbox="669 1338 1270 1368">a. Name and address of the applicant.<li data-bbox="669 1405 1222 1435">b. Education and special training.<li data-bbox="669 1471 969 1501">c. Driving record.<li data-bbox="669 1538 1159 1568">d. General physical condition.<li data-bbox="669 1604 1062 1634">e. Armed service record.<li data-bbox="669 1671 1255 1701">f. Personal and business references.<li data-bbox="605 1715 1399 1790">3. A personal interview followed by a series of tests to determine temperament, knowledge, and <p data-bbox="560 1856 969 1897">* From NHTSA Volume 17 (12)</p>

NOTES	CONTENT
	<p>attitude for the job, should be given. A physical examination should be mandatory. The administrator should be sure that the physician understands the qualifications for the bus driving job and can answer yes to the question, "Is the applicant physically qualified in every way to perform the work of a school bus driver?" The examination should include but not be limited to tests for:</p> <ol style="list-style-type: none"> a. Vision deficiencies including tests for glaucoma, depth perception, and presence of cataracts. b. Tuberculosis. c. Hypertension. d. High blood pressure. e. Overweight. f. Diabetes. g. Use of drugs (including alcohol). <p>4. A road test in the school vehicle should be given which includes maneuvers difficult enough to test the driver's ability and should be given over a standard route with a standard scoring procedure. The results of the road test should be used as a preliminary step in planning a good training program for this driver.</p> <p>5. No person over the age of 65 should be hired to drive a school bus. Those who reach the age of 65 while employed as drivers may be permitted to drive as long as health and operating skills permit. Physical examinations for</p>

NOTES	CONTENT
	<p>drivers over 65 should be required more frequently than for younger drivers. At least every six months is recommended.</p> <p>6. Unsatisfactory drivers should be rejected. For example, those with a bad driving record or where there is evidence of bad moral character within the last three years.</p> <p>CLASS DISCUSSION QUESTIONS</p>

Identify the effect on your driving of temporary or chronic impairment of these physical characteristics:

CHARACTERISTIC	SPECIFIC REQUIREMENT	EFFECT ON DRIVING
Vision		
Acuity		
Field of vision		
Color discrimination		
Depth perception		

Core A-26



Figure 4. Specific Physical Characteristics

CHARACTERISTIC	SPECIFIC REQUIREMENT	EFFECT ON DRIVING
Night vision		
Hearing		
Reaction time		
Normal and full use of arms, hands, legs, and feet		
Freedom from communicable diseases		
Freedom from organic or functional diseases		

Core A-27 / A-28



Figure 4. (continued)

CORE UNIT A
REVIEW QUESTIONS--PART 1

STATE AND LOCAL REQUIREMENTS
FOR BECOMING A SCHOOL BUS DRIVER

QUALIFICATION	STATE REQUIREMENT	LOCAL REQUIREMENT
SKILLS AND KNOWLEDGE		
PERSONAL HISTORY INCLUDING POLICE AND DRIVING RECORDS		
BASIC HEALTH INCLUDING EMOTIONAL STABILITY		
REASONS FOR DENIAL, REVOCATION, OR SUSPENSION OF A SCHOOL BUS DRIVER'S LICENSE		

CORE UNIT A
REVIEW QUESTIONS--PART 2

Answer these questions in your own words.

1. When must the "SCHOOL BUS" signs be either covered or removed?
2. When is it lawful for an individual or political subdivision to operate a commercial vehicle for the transporting of school children for extracurricular activities?
3. What special warning signal lamps are required on a school bus?
4. Why must a prospective driver take a school bus test before being granted a certificate to drive?

5. What certificates and licenses must a driver have to legally operate a school bus?

6. What is the minimum age for school bus drivers? What is the maximum age at which a person can become a school bus driver?

7. List any four responsibilities you have to your supervisor.

a.

b.

c.

d.

8. List any four responsibilities you have to your passengers.

a.

b.

c.

d.

9. List any four responsibilities you have to parents of your passengers.

a.

b.

c.

d.

10. List any two responsibilities you have to your fellow employees.

a.

b.

11. List any four personal qualifications you should possess.

a.

b.

c.

d.

12. List three ways you can improve public relations.

a.

b.

c.

13. What two personal records of yours must be free of violations?

a.

b.

14. List two ways poor emotional or physical health could impair your driving.

a.

b.

15. Give one reason for denying or suspending a school bus driver's license.

CORE UNIT B
PASSENGER CONTROL

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OBJECTIVES

By the end of this unit, you should be able to:

1. List the procedures for controlling the bus and students during loading and unloading.
2. Describe general rules of student conduct and discipline procedures.
3. Identify types of disorder requiring immediate attention and describe procedures for controlling them.
4. Report student control problems.

OVERVIEW

NOTES	CONTENT
	<p>You are responsible for the health, safety, and welfare of the students who ride your bus. To keep them safe, you must be able to control them as well as you control the bus. But students aren't always as predictable as your vehicle. In this unit, you'll learn how to control your bus <u>and</u> your passengers:</p> <ol style="list-style-type: none">1. During loading and unloading.2. During the ride.3. In cooperation with school officials and parents. <p><u>Loading and Unloading</u></p> <p>One of the most important maneuvers you make is the loading and unloading of students. Experience shows that this is a point where students and drivers are exposed to many hazards. Therefore, you must do it a certain way to prevent accidents.</p> <p>You must learn proper procedures for controlling traffic, for crossing pupils, for loading and unloading pupils, and for the proper seating of children.</p> <p>First, consider the <u>equipment</u> on the bus necessary to accomplish these purposes.</p> <p>NOTES:</p>

LOADING PROCEDURES

NOTES	CONTENT
	<p data-bbox="547 296 1380 463">Additional responsibility to the students starts approximately 150 feet from a stop or at that point where you can recognize a student as he approaches or leaves a bus stop.*</p> <p data-bbox="624 856 1316 884">A <u>typical</u> stopping and loading procedure is:</p> <ol data-bbox="675 920 1365 1705" style="list-style-type: none"><li data-bbox="675 920 1316 1039">1. When approaching the designated stop, start slowing down in preparation for the stop.<li data-bbox="675 1075 1365 1242">2. Apply brakes hard enough to light up the brake lights so that vehicles following will have an indication you are about to stop.<li data-bbox="675 1278 1365 1705">3. Apply right-turn-signal indicators showing that you are going to move to the right.<ol data-bbox="739 1433 1365 1705" style="list-style-type: none"><li data-bbox="739 1433 1365 1552">a. If your bus has an 8-light system, activate the prewarning amber flashing lights.<li data-bbox="739 1588 1365 1705">b. The prewarning lamps could be activated even before step 1, depending on traffic conditions. <p data-bbox="547 1757 1304 1890">*Note: The following procedures are in use in some states. You should specify if and when your state has different or additional requirements.</p>

NOTES	CONTENT
	<ol style="list-style-type: none"> 4. Check all mirrors to see that traffic is clear and it is safe for you to pull to the right and stop. 5. Approach students with extreme care, giving due consideration to the surface on which you are going to stop: dry, slippery, dips sharply to the right, rough ground, etc. 6. If possible, do not pull up any closer than 3 feet from the waiting students. 7. Cancel turn signal. 8. Place transmission in neutral. 9. Open the front door when you are ready to board the students. They should be trained not to move toward the bus until the door opens. <ol style="list-style-type: none"> a. If your bus is on an 8-light system, opening the door will deactivate the amber flashing lights and activate the red flashing warning lights. b. If your bus is on a 4-light system, activate the red flashing warning lights manually. 10. Have students go directly to their seats as prescribed by local district policy. See Figures 1 and 2.

1. Students use handrails when boarding bus.
2. Students fill up seats from front to rear of bus.

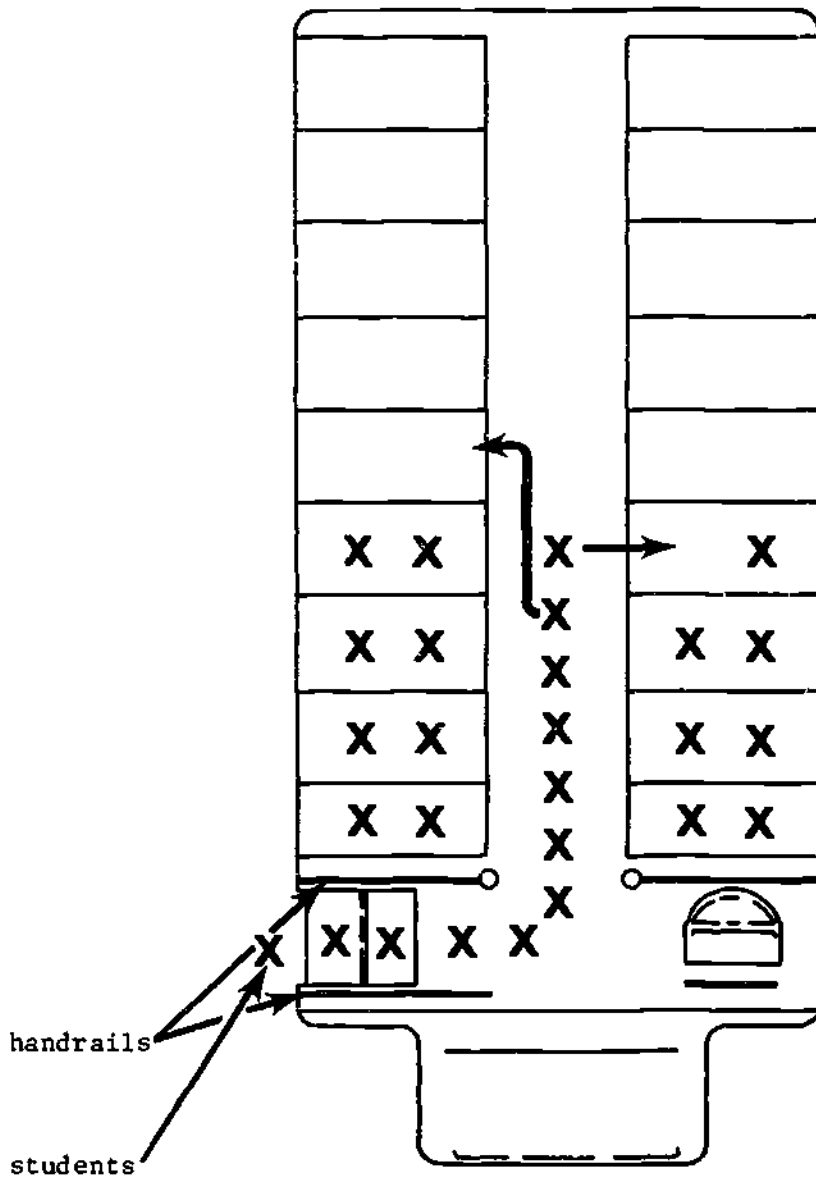


Figure 1. Typical Seating Policy

1. Students use handrails when boarding bus.
2. Students fill up seats from front to rear of bus, but they leave the front seat opposite the driver (the "Angel Seat") vacant for the last two students who board at each stop.
3. At next stop, the students in the angel seat get up and take another seat toward the rear.
4. The last two students to board again sit in the angel seat.
5. When unloading, the process is reversed; the last two to get off at the next stop sit in the angel seat. As the seat is vacated, two students who get off at next stop move up to angel seat.

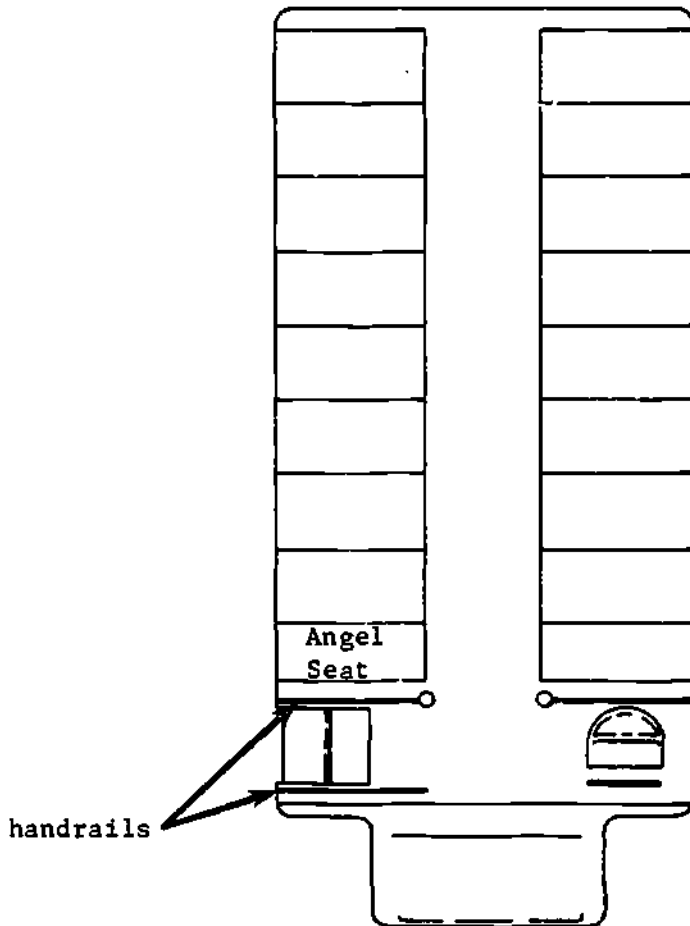


Figure 2. "Angel Seating" Policy

NOTES	CONTENT
	<ol style="list-style-type: none"><li data-bbox="652 294 1380 415">11. Check to make sure students are all properly seated, then prepare to close the front door.<li data-bbox="652 451 1380 532">12. Check traffic and deactivate red flashing warning lights.<li data-bbox="652 560 1380 778">13. Check traffic, use mirrors; turn on left turn signal and when safe, pull back into the lane of traffic; cancel turn signal; retain road speed; and proceed to your next stop. <p data-bbox="544 842 1065 870"><u>NOTES</u> ON LOCAL POLICY FOR LOADING</p>

BUS NO. _____

Driver's
Seat

1 <i>John North</i>	2 <i>Sue Smith</i>	3 <i>Dan Short</i>
7 <i>(etc.)</i>	8	9
13	14	15
19	20	21
25	26	27
31	32	33
37	38	39
43	44	45
49	50	51
55	56	57
61	62	63
67	68	69

4	5	6
10	11	12
16	17	18
22	23	24
28	29	30
34	35	36
40	41	42
46	47	48
52	53	54
58	59	60
64	65	66
70	71	72

Figure 3. Seating Chart

UNLOADING PROCEDURES

NOTES	CONTENT
	<p data-bbox="540 314 1394 441">Unloading students poses added problems; problems especially on the return trip home. Follow the LOADING procedure with these additions:</p> <ol data-bbox="666 472 1394 1913" style="list-style-type: none"><li data-bbox="666 472 1394 598">1. You are responsible for the safety of all students crossing the roadway, regardless of their grade level.<li data-bbox="666 1085 1394 1304">2. Give the motoring public a chance to react to the flashing red warning lights. In most cases, you shouldn't allow students to get off the bus until passing cars have stopped.<li data-bbox="666 1334 1394 1504">3. Students who must cross the road should line up in front of the bus and look up at you; no one should go beyond the left front fender.<li data-bbox="666 1535 1394 1661">4. You must check traffic in both directions before allowing students to cross the roadway.<li data-bbox="666 1692 1394 1913">5. While performing this operation, remember that you are not a traffic officer, and have no rights other than a regular motorist. In other words, <u>do not signal any motorist to do anything.</u> If a driver of

NOTES	CONTENT
	<p>a motor vehicle violates the red light law, write down and turn in his license number to the transportation supervisor or to the appropriate law enforcement agency.</p> <ol style="list-style-type: none"> 6. Wait until it is safe for students to cross and then give them a prearranged signal. 7. When students have safely crossed the road, immediately cancel the red flashing warning lights to allow stopped traffic to move on. 8. Activate left turn signal and check rear-view mirrors before pulling back onto the roadway. <p>When unloading students on school ground, the stops should be situated so students get off on the school side. Discuss with class how the above procedures can be modified if students must cross school driveway that has other buses or passenger cars in motion.</p> <p>NOTES:</p>

IF YOU HAVE SAFETY PATROLS*

NOTES	CONTENT
	<p>You may have a well-trained safety patrol assigned to your bus.</p> <p>There is no age requirement for a bus patrol, but one should be at least 12 years of age.</p> <p>PATROL DUTIES:</p> <ol style="list-style-type: none">1. The function of a safety patrol is not to stop or direct traffic.2. The safety patrol should direct pupils in loading and unloading and should aid small pupils in getting on and off bus.3. The most important duty of the safety patrol is to direct pupils across road or highway safely, if they must cross. He should stand in front of the left front fender of bus with arms outstretched in a perpendicular position to the front of the bus. Students should wait behind his arms until it is safe to cross road or highway. When you signal the patrol that it is safe for pupils to cross, the patrol drops his arms and lets students cross.4. The safety patrol should remain alert and should warn you of any apparent danger of which you are not aware. <p>The safety patrol should be furnished a badge, belt, and/or other means of identification.</p> <hr/> <p>* Adapted from state of Mississippi and NHTSA Task Description (8, 14)</p>

NOTES	CONTENT
	<p data-bbox="572 290 747 318">YOUR DUTIES</p> <p data-bbox="572 350 1418 423">You must <u>direct</u> the activities of the bus safety patrol, as follows:</p> <ol data-bbox="701 459 1418 1245" style="list-style-type: none"><li data-bbox="701 459 1418 580">1. Direct one member of bus patrol to enter bus first and supervise seating of the other students.<li data-bbox="701 616 1418 737">2. Direct other patrol member(s) to supervise the orderly loading of the students from the roadway or loading zone.<li data-bbox="701 774 1418 939">3. If seat belts are used for passengers, assign to the bus patrol members the responsibility of checking that the seat belt is securely fastened.<li data-bbox="701 975 1418 1141">4. Observe bus patrol members directing students who must cross a roadway. Check traffic and indicate to patrol that the way is clear.<li data-bbox="701 1177 1418 1245">5. Direct one bus patrol member to sit near the emergency door of the bus. <p data-bbox="572 1310 667 1338">NOTES:</p>

GENERAL RULES FOR STUDENT CONDUCT

NOTES	CONTENT
	<p>Certainly it cannot be denied that your passengers are affected by the school transportation program. Their experiences on the bus--good and bad--become a part of their education.*</p> <p>This is an aspect of public school transportation which has not received the attention which it deserves. You can do much to control students for their safety and yours.</p> <p>DESIRABLE STUDENT CONDUCT</p> <p>Formal classroom behavior need not, of course, be required of pupils in a school bus. An informal atmosphere which encourages pupils to relax and enjoy the ride is desirable. There are, however, certain limits within which pupil activity must be confined. What are these limits?</p> <p>Your control over pupils should be sufficient to assure that:</p> <ol style="list-style-type: none">1. <u>Students will enter and leave the bus at school loading stations and at highway bus stops in orderly fashion and in accordance with instructions.</u> <p>This requires pupils to proceed at all times:</p> <ol style="list-style-type: none">a. Without haste and without loitering.b. Without crowding and without pushing.c. With each pupil showing due regard for his own safety and the safety of others. <p>*Adapted from state of Iowa (6)</p>

NOTES	CONTENT
	<p>2. <u>Students will remain quiet enough not to distract you.</u></p> <p>Pupils must, at all times:</p> <ol style="list-style-type: none"> a. Refrain from shouting and other boisterous activity. b. Refrain from talking to you while the bus is in motion. c. Show due consideration for you and your problems. <p>In general, any activity which worries or distracts you as the driver is objectionable. You need to keep your mind on the driving and on the traffic situation. If you are worried about the activity in the bus, you cannot be a safe driver.</p> <p>3. <u>Students will remain seated while the bus is in motion.</u></p> <ol style="list-style-type: none"> a. Each pupil must go directly to his seat upon entering the bus. b. Each pupil must remain seated until the bus has stopped. <p>4. <u>Students will cross road in accordance with instructions and the provisions of the state law.</u></p> <p>5. <u>Students will neither purposely nor carelessly destroy property.</u></p> <p>Transportation equipment represents a large capital investment. Pupils can be expected to cooperate in its maintenance and preservation.</p>

NOTES	CONTENT
	<p>a. Orderly behavior in the bus, at all times, is essential. Rough-housing is not only hard on seats and interior finish; it also makes it difficult for you to drive safely.</p> <p>b. Pupils should keep feet off the seats.</p> <p>c. Pupils should keep sharp objects off the upholstery.</p> <p>6. <u>Students will not extend arms or other parts of body out through windows.</u></p> <p>a. It is important that <u>no</u> object protrude through an open window.</p> <p>b. Pupils should leave windows alone. You should attend to ventilation.</p> <p>7. <u>Students will not throw objects about in the bus nor out through windows.</u></p> <p>a. Waste paper and other refuse may not be scattered along the highway. Provision should be made inside for such material and it should be disposed of at end of trip.</p> <p>b. Books and other property should be properly stowed on laps.</p> <p>c. The aisle should be clear.</p> <p>d. Shooting "paper wads" or other material in the bus is not permissible.</p> <p><u>In addition to items listed above, you should instruct and encourage students to:</u></p> <p>1. Follow your instructions promptly and cheerfully.</p>

NOTES	CONTENT
	<ol style="list-style-type: none"><li data-bbox="698 264 1329 294">2. Be on time at the bus stop location.<li data-bbox="698 324 1406 353">3. Be on time at the school loading station.<li data-bbox="698 383 1411 463">4. Avoid playing or loitering <u>on the highway</u> when waiting for a bus which is late.<li data-bbox="698 493 1411 761">5. Follow correct safety procedures when walking on the highway to and from a bus stop. In some instances, pupils must meet a school bus some distance from the home driveway. Procedures for walking on the highway should be clear to pupils.<li data-bbox="698 791 854 821">6. Other:

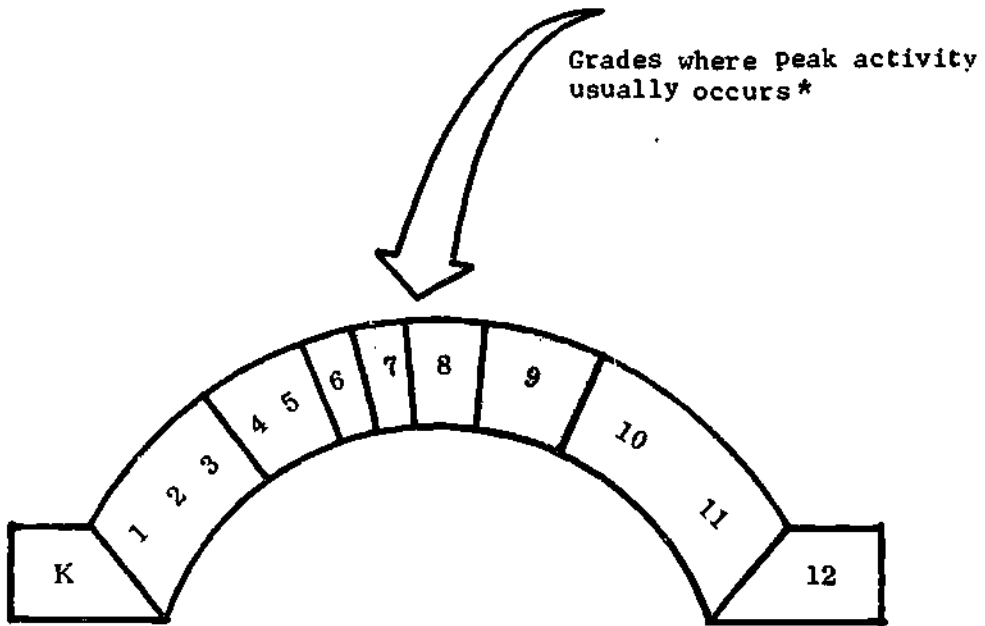
YOUR RESPONSIBILITY FOR DISCIPLINE

NOTES	CONTENT
	<p>All rules and regulations concerning student behavior should be well known and clearly understood by:</p> <ol style="list-style-type: none">1. Bus drivers2. Students3. Parents <p>Obviously, you cannot be solely responsible for proper student behavior. Teachers should have direct responsibility for training and instructing transported pupils. Teachers, as well as bus drivers, should supervise loading stations at the school grounds.</p> <p>Mimeographed lists of rules and regulations covering pupil behavior should be prepared by the administration and distributed to pupils and parents. The active cooperation of parents can be very helpful.</p> <p>You must, of course, accept responsibility for supervising and controlling pupils out on the route. You cannot escape the fact that you are in charge. Establish and discuss acceptable discipline procedures.</p> <p>NOTES ON STATE AND LOCAL REGULATIONS:</p>

STUDENT MANAGEMENT*

NOTES	CONTENT
	<p>As a good bus driver, you should always have a general knowledge of your "load" or cargo. Your personal knowledge of the individuals transported will not be as intimate as that of the teacher since you have contact with the pupils for only a short time each day. Your main function is to carry the pupils to their destination and discharge them unharmed. But, you must know something of the <u>behavior patterns of your riders</u> and know a great deal about their reactions in order to safely pick up and deliver your load. Remember the following:</p> <ol style="list-style-type: none">1. Each child is an individual and therefore different, but <u>do not allow special privileges</u> to any pupil unless requested by the school administration. The administration has complete records on each pupil and is better able to judge a pupil's needs than you on the basis of your short daily contact with the pupil.2. Observe the rights and privileges of each child only <u>as long as he obeys the rules</u> of good bus behavior. The moment a pupil "gets out of line," deal with him or her fairly, impartially, and in the same manner you treat all such offenders. In the eyes of children, the greatest sin an adult can commit is to "play favorites."3. Remember that all eyes are on you while you are driving the bus. Your words and actions have tremendous influence on the children riding on your bus. <hr/> <p>* From state of California (2)</p>

NOTES	CONTENT
	<p data-bbox="681 274 1394 399">4. Speak quietly, clearly, with confidence and <u>firmness</u> when talking to the children on your bus.</p> <p data-bbox="681 433 1394 652">5. <u>Be liberal in your praise of the group</u> when they accept responsibility well and have a general pattern of good behavior. Do not single out individual students for praise before the group.</p> <p data-bbox="681 685 1394 1139">6. <u>Do not try to handle serious discipline cases yourself.</u> Refer all such cases to your supervisor or the school principal. Give all the facts and be sure the entire problem is understood. Usually the child who causes the problems on the bus is also causing problems in the classroom. The school administrator has the whole picture of the child while you, as a bus driver, know only his bus behavior.</p> <p data-bbox="556 1172 1394 1719">Pupil psychology demands that all talking to the pupils must be done without shouting, excitement, or evidence of irritation. You must be careful in your talks with the pupils to never threaten them with violence. Carry out your instructions to the pupils with no evidence of favoritism. If you overlook violations of conduct by one pupil, you'll lose the respect of the other pupils. Strike a happy medium by not being too lenient or too harsh, as both extremes are equally bad for the morale of the pupils on the bus. Your attitude should be friendly, cheerful, and businesslike.</p> <p data-bbox="556 1753 1394 1878">Strive to build morale and cooperation in your busload. This can be done by being friendly, courteous, and helpful. In the course of time, the pupil</p>



* From state of California (2)

Figure 4. Behavior Curve Showing Grade Levels and Student Activity Tendency

NOTES	CONTENT
	<p>morale will be a great source of help in controlling pupils who are the worst offenders. When pupils discover that improper conduct is not acceptable to the group, offenders will hesitate to do things which cause them to lose "face" with the group. One of the best approaches to building pupil morale is to <u>give the pupils a chance to participate in drafting the rules and regulations</u> for maximum safety on the school bus. Practice all approaches which create better driver-pupil relationships.</p>

WHEN YOU HAVE DISCIPLINE PROBLEMS

NOTES	CONTENT
	<p>You must maintain order on your bus. Keep in mind the following simple rules:</p> <ol style="list-style-type: none"><li data-bbox="677 419 1403 868">1. <u>Stop the bus</u> if the behavior problem is a serious one. If it is a minor infraction, a word of warning over the speaker system (if available) or a remark directed to the offender may be enough. If the infraction is more serious in nature, stop the bus. The fact that you have taken this action makes the pupils realize the situation is one that is out of the ordinary.<li data-bbox="677 903 1403 1070">2. <u>Stand up</u> and speak to the offenders in a courteous manner but in a firm voice. Don't show anger, but all pupils must realize you "mean business."<li data-bbox="677 1104 1403 1231">3. If a change in seating is needed, <u>move the pupil to a seat near the driver</u> so you can more closely observe his behavior.<li data-bbox="677 1266 1403 1897">4. You have <u>no legal right to put a pupil off the bus</u> except at his regular bus stop or at the school. However, if an <u>emergency situation</u> develops in which you feel <u>very drastic action</u> is needed, stop the bus and send a responsible pupil or adult to notify the supervisor or principal of the happening. Do not start the bus until one of these persons has responded to your call. You, alone, cannot deny the pupil the right to be picked up in the morning; check with your supervisor or principal regarding the proper procedure for you to follow.

REPORTING DISCIPLINE PROBLEMS

NOTES	CONTENT
	<p>You are responsible for the conduct of pupils on your bus, but you must have the backing of the <u>school administration</u> to effectively discharge this responsibility. In cases of <u>continued</u> misconduct, report the pupil to the supervisor or principal and ask that some action be taken toward withdrawing the pupil's right to ride the school bus.</p> <p>In many school districts, the first action taken is a reprimand or a withdrawal of bus privileges for a short time. If the pupil's behavior does not improve when he returns, he may be denied the right to ride the bus for a longer period or he may be transferred to another bus. This is usually done after all other measures have failed to improve the situation.</p> <p>If you feel the conduct of the student makes it necessary to withdraw his bus privileges, take him to his designation and inform him that he cannot ride the bus until the matter has been cleared with the school administration. ON THE SAME DAY, INFORM THE ADMINISTRATION ON THE PROPER REPORT BLANKS. (See Figure 5.)</p> <p>NOTES ON REPORTING:</p>

F413

BUS CONDUCT REPORT *

Student's Name: _____ School: _____
Address: _____ Date: _____ Bus No. _____
Breach of Discipline: _____

Notice to Parents: You are hereby notified of breach of discipline involving your child. This card must be returned with your signature before your child will be permitted to use the bus. Any further breach of discipline may cause denial of transportation.

Driver's Signature _____

Notice of breach of discipline and driver's action in regard thereto is acknowledged.

Parent's Signature: _____

Principal's Signature: _____

Each district should have its own report form and rules relative to its use. One copy goes to the parent, one to the administrator, and one is kept by the driver. The first report might be considered a warning; the second could mean the loss of riding privileges for a period of time; the third could result in a conference by the student, the parent, the administrator, and the driver.

*From state of Oregon (17)

Figure 5. Suggested Report Form

SUMMARY DO'S AND DON'TS FOR BUS DRIVERS REGARDING DISCIPLINE

NOTES	CONTENT
	<p data-bbox="550 304 1346 379">Listed here are several do's and don'ts which should help you with problems of discipline.</p> <p data-bbox="550 445 612 471">DO'S</p> <ol data-bbox="594 506 1375 1306" style="list-style-type: none"><li data-bbox="594 506 1244 540">1. Always be courteous to your students.<li data-bbox="594 570 1084 600">2. Always control your temper.<li data-bbox="594 631 1375 711">3. Act the part of a person in responsible position, conscious of your important job.<li data-bbox="594 741 1361 868">4. Do everything possible to inform pupils that they themselves have important responsibilities in assuring group safety.<li data-bbox="594 899 1346 973">5. Maintain close contacts with principals and secure their cooperation.<li data-bbox="594 1003 1361 1130">6. Spot the few troublemakers and ask the principal what methods to employ if you are uncertain.<li data-bbox="594 1161 1361 1235">7. Seat any troublemakers near you, within your vision.<li data-bbox="594 1266 939 1300">8. Be firm, but kind. <p data-bbox="550 1372 642 1399">DON'TS</p> <ol data-bbox="594 1433 1361 1876" style="list-style-type: none"><li data-bbox="594 1433 1288 1467">1. Don't be too familiar with the students.<li data-bbox="594 1497 1128 1528">2. Don't be too lenient at first.<li data-bbox="594 1558 1041 1588">3. Don't make "wisecracks."<li data-bbox="594 1618 895 1649">4. Don't threaten.<li data-bbox="594 1679 851 1709">5. Don't shout.<li data-bbox="594 1739 851 1770">6. Don't argue.<li data-bbox="594 1800 1361 1876">7. Don't use physical force; observe the policy of "hands off."

NOTES**CONTENT**

8. Don't create issues that have to be settled later.
9. Don't discipline children while the bus is in motion.
10. Never assume that everything is all right.
11. Avoid general statements to the whole busload of students when restoring order.
12. Don't question publicly the decisions of the school board; however, feel free to make suggestions for improvement to the proper authority.

NOTES:

CORE UNIT B
REVIEW QUESTIONS--PART 1

Check whether the statement is mostly T or F.

- | | |
|---|----------------------------|
| 1. A parent or teacher relieves the driver of half of his responsibility for student behavior. | T <u> </u>
F <u> </u> |
| 2. Being liberal in your praise when students are on good behavior is a wise move. | T <u> </u>
F <u> </u> |
| 3. Conduct of the pupils aboard the bus is the direct responsibility of the principal. | T <u> </u>
F <u> </u> |
| 4. A driver who is lenient gains respect and control over his busload. | T <u> </u>
F <u> </u> |
| 5. The business-like attitude of the driver has a great deal to do with pupil psychology. | T <u> </u>
F <u> </u> |
| 6. A student who misbehaves on the bus may be kicked off any place the driver feels it is safe. | T <u> </u>
F <u> </u> |
| 7. "Troublemakers" or youngsters likely to misbehave on the bus may often be identified by the way in which other pupils act toward them. | T <u> </u>
F <u> </u> |
| 8. Favoritism is a good way to gain control of your students. | T <u> </u>
F <u> </u> |
| 9. Seat your troublemakers near the center of the bus. | T <u> </u>
F <u> </u> |
| 10. It is good practice for a driver to understand the growth problems as well as behavior patterns of the children in his care even for the short period he will be with them. | T <u> </u>
F <u> </u> |
| 11. Vehicles traveling in both directions on an undivided highway must stop for a school bus which is loading or unloading passengers. | T <u> </u>
F <u> </u> |
| 12. After unloading passengers, the driver may proceed as soon as the last student steps on to the ground or pavement. | T <u> </u>
F <u> </u> |

13. On highways having dual or multiple lanes separated by safety islands, a vehicle overtaking a school bus, which is loading children, has to stop. T _____
F _____
14. Federal Standards recommend that there be no standees on school buses. T _____
F _____
15. There is no penalty for a motorist who passes a school bus while it is loading or unloading passengers. T _____
F _____

CORE UNIT B
REVIEW QUESTIONS--PART 2

Briefly describe, in your own words:

1. How you control the bus (including red flashing warning lights) as you approach and stop to load passengers.
2. How you control students as they enter the bus.
3. How you control the bus as you approach and stop to unload passengers.
4. How you control students as they leave the bus.

OPTIONAL QUESTION FOR SYSTEM WITH BUS SAFETY PATROLS:

Briefly describe the duties of the school bus patrol in supervising the loading process with regard to:

1. Other students
2. The driver
3. Motorists

CORE UNIT B
REVIEW QUESTIONS--PART 3

Fill in the right-hand column

If one of the students on my bus were:	I would:
1. Eating	1.
2. Trying to get off at a corner other than his regular stop.	2.
3. Shouting the school's victory song.	3.
4. Conversing in normal tones.	4.
5. Walking in the aisle while bus is in motion.	5.
6. Smoking.	6.
7. Running to catch bus as I start to pull away from stop.	7.

If one of the students on my bus were:	I would:
8. Trying to bring her dog to school.	8.
9. Opening the window and scraping snow into snowballs.	9.
10. Doing his homework.	10.

CORE UNIT B
REVIEW QUESTIONS--PART 4

1. List three examples of disorders requiring immediate attention and describe the procedure you would use to control each.

<u>DISORDER</u>	<u>PROCEDURE</u>
a.	a.
b.	b.
c.	c.

CORE UNIT B
REVIEW QUESTIONS--PART 5

1. Write three examples of conduct problems you would report:

a.

b.

c.

2. Why would you report such a problem?

3. Who would you report to?

Name _____ Title _____

4. What is the usual penalty in your district for one of the conduct problems you chose in question 1 above?

CORE UNIT C
ACCIDENTS AND EMERGENCIES

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OBJECTIVES

By the end of this unit, you should be able to:

1. Identify the major causes of school bus accidents and describe actions to avoid accidents.
2. Identify your legal responsibilities and required action in case of an accident.
3. State the school's policy on eight accident/emergency issues.
4. Describe and demonstrate emergency procedures to follow.

GENERAL CONCLUSIONS ABOUT SCHOOL BUS ACCIDENT FACTORS

NOTES	CONTENT
	<p data-bbox="556 275 1402 357">On a national level, certain factors influence school bus accidents. Your local statistics may vary.</p> <ul data-bbox="682 378 1402 1165" style="list-style-type: none"><li data-bbox="682 378 1402 511">• School bus drivers are at fault about half the time; failure to yield the right of way is the most common driver violation. <li data-bbox="682 1032 1402 1165">• Collision between a school bus and another vehicle in traffic is most common type of accident. <p data-bbox="556 1849 1224 1900">* Adapted from School Bus Accident Data (4)</p>

NOTES**CONTENT**

- Young drivers and elderly drivers tend to have a higher accident rate than the intermediate age group.

- Defective brakes on the bus is the most common mechanical factor in accidents. (But mechanical failures cause a very low percentage of accidents.)

- More students are killed approaching or leaving the bus than onboard the bus.

DISCUSSION: (Your instructor will discuss Figure 1.)

TOTAL ACCIDENT SUMMARY* - PUBLIC SCHOOL BUSES INVOLVED - STATE OF _____
 19 - School Year (September 1 through _____)

Total Number of Accidents Involving Public School Buses..... _____
 Total Number of Urban Accidents..... _____
 Total Number of Suburban and Rural Accidents..... _____
 Total Number of School Bus Drivers at Fault..... _____
 Total Number of Accidents in Which Both Drivers Were at Fault.. _____

 Time Factors: A.M. Accidents... _____ P.M. Accidents... _____ Not Stated _____
 Daylight..... _____ Monday..... _____
 Dawn..... _____ Tuesday.... _____
 Dusk..... _____ Wednesday.. _____
 Dark..... _____ Thursday... _____
 Not Stated..... _____ Friday..... _____
 Saturday... _____
 Sunday..... _____

Total Number of Multiple-Bus Accidents: Two Buses Involved..... _____
 Three Buses Involved..... _____
 Four or More Buses Involved _____

Severity of Accidents: Number of Fatal Accidents..... _____
 Number of Fatalities..... _____
 Number of Personal Injury Accidents.. _____
 Number of School Children Injured.... _____
 Number of School Bus Drivers Injured. _____
 Number of Property Damage Accidents.. _____
 Others..... _____

<u>Bus Driver Factors: (Only)</u>	<u>Age Grouping:</u>	<u>Male</u>	<u>Female</u>	<u>Total:</u>
	Under 21....	_____	_____	_____
	21-30.....	_____	_____	_____
	31-40.....	_____	_____	_____
	41-50.....	_____	_____	_____
	51-60.....	_____	_____	_____
	61-70.....	_____	_____	_____
	71 and over.	_____	_____	_____
	Not Stated..	_____	_____	_____
	TOTALS:	_____	_____	_____

* From questionnaire developed by Richard W. Guyer, Ball State University Graduate Division (10)

Figure 1. School Bus Accident Factors

SCHOOL BUS ACCIDENT SUMMARY (Continued) - STATE OF _____

Weather Factors: Clear..... _____ Rain-Mist..... _____
 Snow-Sleet.... _____ Fog-Smoke..... _____
 Not Stated.... _____

Road Condition Factors: Dry.... _____ Straight.... _____ City Street.... _____
 Wet.... _____ Curved..... _____ County Hwy..... _____
 Paved..... _____ Snow... _____ Intersection _____ Rural Road..... _____
 Gravel.... _____ Ice.... _____ RR Crossing. _____ State Hwy..... _____
 Dirt..... _____ Not Bridge or Federal Hwy.... _____
 Not Stated _____ Tunnel.... _____ Interstate..... _____
 Stated... _____ Not Stated... _____ Not Stated..... _____

Violations of School Bus Drivers: (Only)

Failure to Yield Right-of-way..... _____
 Too Fast for Conditions..... _____
 Wrong Side of Roadway..... _____
 Following Too Closely..... _____
 Improper Passing..... _____
 Inattention..... _____
 Improper Turn..... _____
 Reckless Driving..... _____
 Failure to Stop (Intersection, Railroad, Entering, etc.)..... _____
 Defective Equipment..... _____
 Exceeding Speed Limit..... _____
 Improper Loading or Unloading..... _____
 Driver Fatigue..... _____
 Drinking Intoxicants..... _____
 Other..... _____
 Not Stated..... _____

Location of Impact Area On Bus Body:

Front: Right Front ... _____ Rear: Right Rear.... _____
 Middle Front... _____ Middle Rear... _____
 Left Front..... _____

Right Side: Forward..... _____ Left Side: Forward..... _____
 Middle..... _____ Middle..... _____
 Back..... _____ Back..... _____

Figure 1. (continued)

NOTES	CONTENT
	<p data-bbox="556 264 1290 292">SCHOOL BUS DRIVER LIABILITY FOR PUPIL INJURIES*</p> <p data-bbox="556 324 1340 495">You may be held liable for injuries to school children resulting from your <u>negligence</u>. All four essential elements or grounds for negligence must be present. Courts generally consider these to be:</p> <ol data-bbox="681 530 1399 935" style="list-style-type: none"><li data-bbox="681 530 1399 653">1. Your legal <u>duty</u> to conform to a <u>standard of conduct</u> for the protection of others against unreasonable risks.<li data-bbox="681 687 1399 715">2. Your <u>failure</u> to conform to the standard.<li data-bbox="681 749 1399 828">3. A reasonably close <u>causal connection</u> between your conduct and resulting injury.<li data-bbox="681 862 1399 935">4. Actual <u>loss or damage</u> resulting to the interests of another. <p data-bbox="556 1050 649 1078">NOTES:</p> <hr data-bbox="556 1836 714 1844"/> <p data-bbox="556 1856 911 1884">* From state of Iowa (5)</p>

NOTES	CONTENT
	<p>The considerations that most courts use in determining driver negligence are:*</p> <ol style="list-style-type: none"> 1. The degree of care which driver must use ranges from "ordinary" and "reasonable" to "extraordinary" and "highest degree." The degree required depends on type of duty. The tendency of the courts is to require more care from people with a duty involving younger children. 2. The approximate age of a child considered to be capable of recognizing traffic dangers is 10 to 11 years. 3. You <u>and</u> your district are both accountable for maintaining a safe vehicle. 4. Most cases involving accidents while boarding and alighting from a bus use the factors of "reasonable care" and "safe places" in determining negligence. 5. You are expected to keep order on a bus and may use any normally accepted means. 6. You are not automatically guilty of negligence if injury occurs. You have the opportunity to refute the charge by <u>proof that proper care was used.</u> 7. You may generally be held accountable for your acts <u>separately</u> from any decision regarding district liability. 8. NEGLIGENCE IS FOR JURY DETERMINATION. <p>*From state of Iowa (5)</p>

NOTES	CONTENT
	<p data-bbox="550 240 1327 314">Your instructor will describe a case history involving a law suit.</p> <p data-bbox="550 379 751 409">CASE HISTORY:</p> <p data-bbox="559 1433 923 1463">Answer these questions:</p> <ol data-bbox="559 1492 1413 1840" style="list-style-type: none"><li data-bbox="559 1492 1413 1612">1. Did the driver have a legal duty to meet a certain standard of conduct in this situation? _____ _____<li data-bbox="559 1646 1413 1731">2. Did he act with "due care" (the way a reasonably careful bus driver would)? _____<li data-bbox="559 1757 1413 1840">3. Was there actual harm, injury or damage? _____ _____

NOTES	CONTENT
	<p data-bbox="552 266 1391 349">4. Did the driver's conduct (action or inaction) cause or result in the injury? _____ _____</p> <p data-bbox="552 455 777 487"><u>COURT DECISION</u></p> <p data-bbox="552 518 1391 596">The driver [was/was not] determined to be negligent.</p> <p data-bbox="552 628 1406 705">Who may be held liable for the injuries resulting from this accident? _____</p> <p data-bbox="552 817 715 848"><u>DISCUSSION</u></p>

ACCIDENT PROCEDURES

NOTES	CONTENT
	<p>If you have an accident, there is a procedure to follow that will meet the requirements of the state law. No two accidents are the same. The sequence of things in the suggested procedure may not be practical in every case. At times, good common sense will be the rule.</p> <p>STATE LAW REGARDING ACCIDENT--NOTES :</p> <p>Your primary responsibility is to your passengers. Therefore, your first responsibility is to remain calm. If you are unable physically to perform your duties, direct others to do them for you. Should this be the case, ask your oldest and most capable student to help.</p> <p>The following procedure is recommended:</p> <ol style="list-style-type: none">1. Turn off ignition switch and take keys.2. Set brakes.3. Remain calm and reassure students.4. Use warning devices to "protect the scene."<ol style="list-style-type: none">a. Protect the students and the bus from further accidents and injuries: Place flags, flares or fusees in accordance with state law.

NOTES	CONTENT
	<ul style="list-style-type: none">b. Protect the scene from traffic and people so that evidence is not destroyed. c. Under normal circumstances, the vehicle involved should not be moved until law officers advise you to do so. <p>5. Be alert to a fire or the possibility of fire.</p> <ul style="list-style-type: none">a. Check for ruptured fuel tank and fuel lines. A bus can be a potential furnace.b. Check for electrical fire.c. Look for smoke.d. Check for hot tires which may catch fire--caused by metal rubbing against a tire from point of impact to final resting place.e. Extinguish fire, if any. <p>6. Check for injury to pupils.</p> <ul style="list-style-type: none">a. If pupils are injured, follow first aid procedures.

NOTES**CONTENT**

7. Keep all students in the bus, except in three cases:
 - a. Conditions might lead to a possible fire.
 - b. Danger of further collision.
 - c. Danger of drowning.
8. Account for all students.
9. Notify school administrators of the location of the bus accident.

10. Notify the appropriate law enforcement agency.

NOTES	CONTENT
	<p>11. Do not discuss the facts of the accident with other motorists but give information only to investigating officers and school officials.</p> <p>a. To provide necessary information for all concerned--law enforcement officers, school officials, etc.</p> <p>(1) List all students' names, ages, and addresses.</p> <p>(2) Information about the school bus, such as insurance, make, model number, owner, etc. <u>An emergency packet should be carried on the bus</u> which includes bus information, emergency telephone numbers and any additional local directives covering this subject.</p> <p>b. While being investigated, be patient, evaluate questions, and give clear and concise answers.</p> <p>c. A driver involved in an accident is required to give his name, address, driver's license number, and vehicle information. Be ready to give this information to the other driver and also write down the same information regarding him.</p> <p>d. If witnesses were present, other than your students, get names, addresses, and license numbers.</p>

NOTES	CONTENT
	<p>12. Cooperate with school administration.</p> <ul style="list-style-type: none">a. During the investigation of the accident, do not release any of your students to anyone unless told to do so by the school administration (see page 48 of this unit).b. If students are injured and need to be removed from the scene, follow policy adopted for this purpose at the local level, if applicable (see page 47 of this unit). If not, send someone to call for aid, such as hospital, ambulance service, or fire department-- wherever help can be summoned quickly. The injured should be transported by proper means to a hospital for care. <p>13. Continue the transportation of the students by:</p> <ul style="list-style-type: none">a. The present bus if released.b. Another bus.c. Some other means, again following local policies of the district, but not until authorized to do so. <p>NOTES:</p>

REPORTING AN ACCIDENT

NOTES	CONTENT
	<p data-bbox="540 264 1348 344">We will now go over our forms and how they are to be filled out.</p> <p data-bbox="540 405 981 435">CASE HISTORY OF AN ACCIDENT:</p>

ACCIDENT REPORT OF DRIVERS OF SCHOOL BUSES*
(If serious, telephone or telegraph)

Drivers of school conveyances involved in accidents (regardless of the seriousness of the accident or whether any children or other persons are injured) shall make out and file TWO copies of the accident report with the Superintendent of Schools. The Superintendent shall, in turn, file one copy with the Bureau of Field Financial Services of the State Education Department.

Date of accident _____ Time _____

Place _____
(Between what streets, or nearest intersecting road, or nearest house)

Weather _____ Pavement _____

Accident involved _____
(Pedestrian, train, cycle, automobile, other object)

School bus owner _____ Address _____

Bus number _____ Make _____ Year _____ Capacity _____

Damage to bus _____

Other vehicles _____ Damage _____
(Passenger car, truck, etc.)

INJURIES

Number of passengers in bus _____ Number of passengers injured _____

Nature of injuries _____

Number of others injured _____ Nature of injuries _____

Where and by whom treated _____

Injured pupil or pupils are enrolled in school district No. _____

Town of _____

(Report accidents involving passengers crossing to and from bus on separate sheet.)

* Adapted from state of New York (18)

Figure 2. Sample Accident Report Form

STATEMENT OF DRIVER

Briefly describe how accident occurred, giving direction and speed of your vehicle and other (if collision), width of roadway, nature and condition, weather, etc.

Illustrate accident on diagram on next page.

Dated _____

Dated _____

Driver

County and Supervisory District,
Village or City

Superintendent of Schools

School districts served _____

Figure 2. (continued)

Illustrate accident below using symbols. Indicate North on compass drawing.



Auto or
Truck



Commercial
Bus



School Bus



Cycle



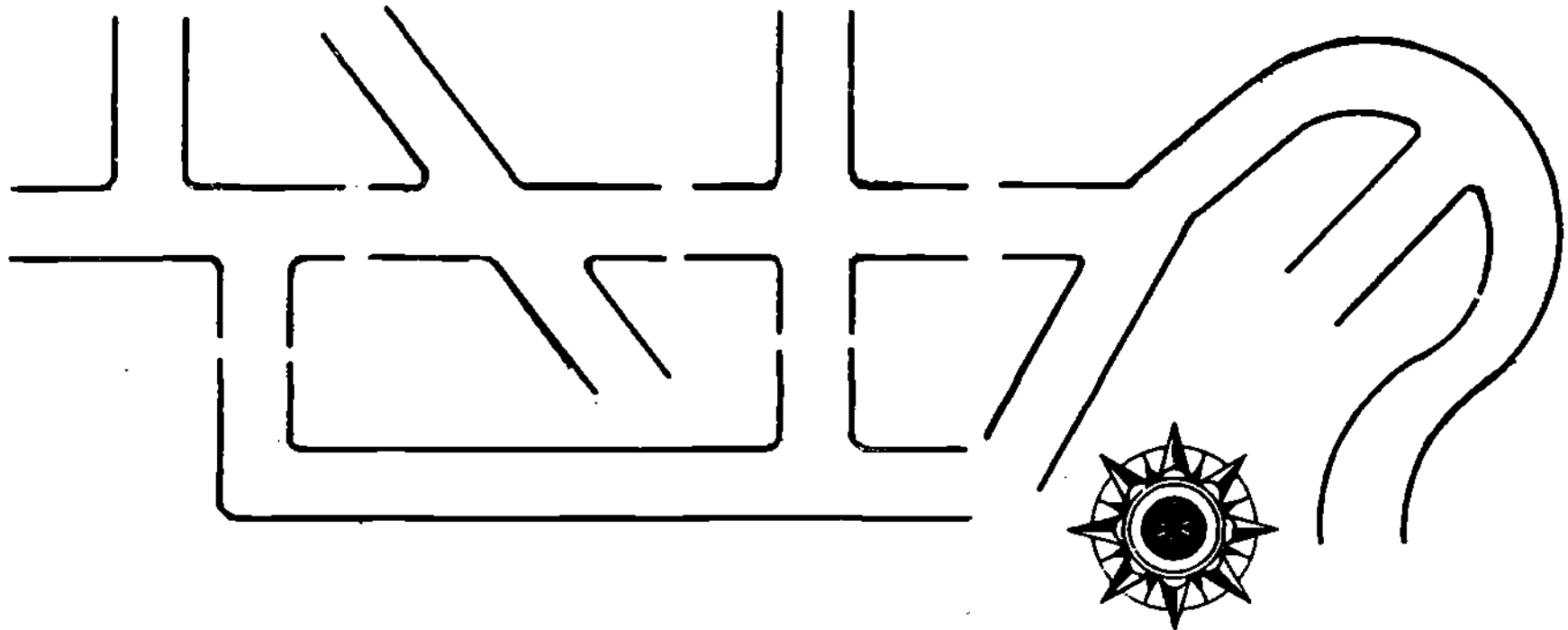
Elec. Car



Train



Pedes-
trian



MECHANICAL FAILURE/BREAKDOWN PROCEDURES

NOTES	CONTENT
	<p data-bbox="569 298 1413 512">Despite good design, engineering and/or the preventive maintenance programs, you may have mechanical failures occasionally. You must know what to do, how to do it, and when it should be done in case of a breakdown while on the road.</p> <p data-bbox="569 546 1413 620">Let's begin by studying legal requirements as far as equipment is concerned.</p> <p data-bbox="569 687 661 713">NOTES:</p> <p data-bbox="569 1090 1336 1165">Here is a suggested procedure for mechanical failure.*</p> <ol data-bbox="690 1197 1413 1641" style="list-style-type: none">1. Stop the bus as far to the right of the road as possible, or on the shoulder of the road.2. Secure the bus; activate 4-way hazard lights, and place chock under wheel.3. Keep children in bus unless this is unsafe.4. If location of the bus is unsafe, remove the children to a safer location (see EVACUATING THE BUS, p. 27.) <p data-bbox="564 1862 1078 1903">*From NHTSA Task Description (14)</p>

NOTES	CONTENT
	<ol style="list-style-type: none"><li data-bbox="671 258 1322 338">5. Place flags, flares, fusees, etc., in accordance with state law. <li data-bbox="671 512 1399 681">6. Telephone, radio, or send bus patrol (or capable student) to call the proper school authorities, giving location of the bus and description of breakdown. <li data-bbox="671 713 1399 794">7. See that all pupils are delivered to their destination. <li data-bbox="671 826 1301 866">8. Complete maintenance repair <u>reports</u>. <p data-bbox="540 919 841 951">LOCAL EXCEPTIONS :</p>

DRIVER REPAIR REQUEST

Bus No. _____ Date _____ Driver _____

1. Air Leaks	13. Lights
2. Brakes	14. Motor
3. Choke	15. Idle
4. Clutch	16. Motor Missing
5. Controls	17. No Power
6. Doors	18. Seats
7. Fan Belts	19. Starter
8. Generator	20. Steering
9. Heater	21. Tires (Condition)
10. Horn	22. Glass
11. Instruments	23. Windshield Wipers
12. P.A. Out of Order	24. Other

REMARKS OR EXPLANATION:

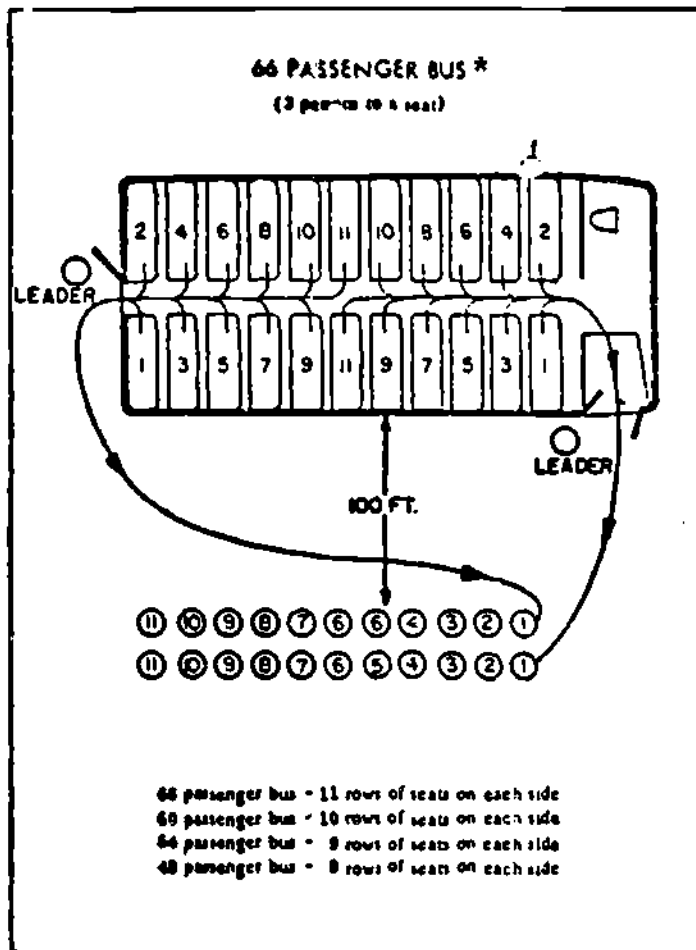
NOTE: It's a good idea to have emergency phone numbers, special directions, etc., on the back of this form. You should carry a supply of these forms in the driver's compartment.

Figure 3. Sample Maintenance Repair Report Form

EVACUATING THE BUS

NOTES	CONTENT
	<p>Usually, students remain on the bus during an emergency. But, three situations require that you evacuate the bus:*</p> <ul style="list-style-type: none">• FIRE OR DANGER OF FIRE• UNSAFE POSITION <ol style="list-style-type: none">1. <u>Fire or danger of fire.</u> A bus should be stopped and evacuated immediately if the engine or any portion of the bus is on fire. Passengers should move a distance of 100 feet or more from the bus and remain until the driver of the bus has determined that no danger remains. Being near an existing fire and unable to move the bus away, or near the presence of gasoline or other combustible material should be considered as "danger of fire," and students should be evacuated.2. <u>Unsafe position.</u> In the event that a bus is stopped due to accident, mechanical failure, road conditions, or human failure, the driver must determine immediately whether it is safer for passengers to remain in the bus or to evacuate. You must evacuate if:<ol style="list-style-type: none">a. The final stopping point is in the path of any train or adjacent to any railroad tracks. <p>*From Standards for School Bus Operation (9)</p>

NOTES	CONTENT
	<p data-bbox="753 254 1421 701">b. The stopping position of the bus may change and increase the danger. If, for example, a bus should come to rest near a body of water or precipice where it could still move and go into the water or over a cliff, it should be evacuated. The driver should be certain that the evacuation is carried out in a manner which affords maximum safety for the children.</p> <p data-bbox="753 733 1389 1088">c. The stopping of the bus is such that there is danger of collision. In normal traffic conditions, the bus should be visible for a distance of 300 feet or more. A position over a hill or around a curve where such visibility does not exist should be considered reason for evacuation.</p> <p data-bbox="560 1120 1389 1338">In an emergency it is possible for children to jam the emergency door by all trying to get out of the door at the same time. To help avoid this situation, you should organize and conduct emergency exit drills for all students who ride school buses.</p> <p data-bbox="638 1370 1193 1399">There are several ways to evacuate:</p> <ol data-bbox="688 1431 1403 1770" style="list-style-type: none"><li data-bbox="688 1431 1403 1507">1. Everyone exits through the rear emergency door.<li data-bbox="688 1540 1403 1616">2. Everyone exits through the front entrance door.<li data-bbox="688 1649 1403 1770">3. Front half exits through the front door and rear half exits through the rear door (see Figure 4).



* From Standards for School Bus Operation (9)

Figure 4. Front and Rear Door Evacuation Drill

NOTES	CONTENT
	<p data-bbox="679 247 1362 322">4. Exit through side door alone or in combination with 1-3 above.*</p> <hr data-bbox="556 1808 704 1815"/> <p data-bbox="556 1821 1105 1855">*If applicable to your type of bus.</p>

EVACUATION PROCEDURE

NOTES

CONTENT

Explain to all students who ride the bus the procedure to be followed if it is necessary to evacuate a bus. The following is one recommended procedure that may be adapted to a local situation.*

Suggested Front Door Evacuation Drill Conducted on School Grounds

In the interest of safety, all drivers should conduct an emergency evacuation drill through the front door when they unload at the schools at least once a month with each busload of elementary-age children. This approach does not take any more time than the regular unloading procedures. Follow these steps:

1. Stop the bus, set parking brake, and turn off engine (remove key).
2. Stand, open the door, face the children, and get their attention.
3. Give the command: "Emergency drill, remain seated, front evacuation."
4. Advise bus captain or designated student to guide passengers to assigned place of safety.
 - a. A helper or a bus captain can be appointed each month to assist the driver in leading the students to a designated location on the grounds.
 - b. A second helper can be appointed to stand outside the front door to count and assist passengers as they leave the bus.

* Adapted from state of California (2)

NOTES	CONTENT
	<ol style="list-style-type: none"> 5. Standing between the first occupied seats, you will then turn and face the front of the bus. <ol style="list-style-type: none"> a. Starting with the right-hand seat, tap the shoulder of the student nearest the aisle to indicate that those occupants shall move out. Say, <u>"Walk--Don't Run--Use Hand Rails."</u> b. Hold your hand before the occupants of the left-hand seat in a restraining gesture. 6. When the pupils in the right-hand seat have moved forward far enough to clear the aisle, dismiss the occupants of the left-hand seats. 7. Continue evacuation procedure as described right and left seats alternately, until the bus is empty. 8. When the last seat is empty, walk to the front of the bus checking to see that everyone is out. 9. After you leave the bus, go to students and advise them of improvements to be made or tell them of the job well done, then immediately dismiss them for class. If there are students who are to continue on to another school, reload them and continue run.

NOTES	CONTENT
	<p data-bbox="535 214 812 242">LOCAL ADAPTATION:</p> <p data-bbox="535 819 1022 878"><u>Rear Emergency Door Evacuation</u> <u>or Side-Door Evacuation</u></p> <p data-bbox="535 910 1394 1077">Rear emergency door evacuation or side-door evacuation works in reverse of the one just explained. Explain how the doors work and instruct students not to open them until you give the command to do so.</p>

IMPORTANT FACTORS IN EVACUATION DRILLS

NOTES	CONTENT
	<ul style="list-style-type: none">• Safety of children is of the utmost importance and must be considered first.• All drills should be supervised by the principal or by persons assigned by him to act in a supervisory capacity.• You are responsible for the safety of the pupils; however, in an emergency the driver might be incapacitated so that he would not be able to direct the pupil emergency evacuation. School patrol members, appointed pupils, or adult monitors should assist in these drills. It is important to have regular student leaders available who know how to:<ul style="list-style-type: none">a. Turn off ignition switch.b. Set emergency brake.c. Summon help when and where needed.d. Use fire axe or kick-out windows.e. Set flags and flares.f. Open and close doors, account for all pupils passing his station.g. Help small children off bus.h. Perform other assignments.• Written consent from parent should be obtained before assigning a pupil as a leader.• "Emergency drills" for school buses should be organized in a manner similar to fire drills held regularly in schools. School bus drills should be held more often during fall and spring months, preferably when bus arrives at the school building with the pupils.

NOTES	CONTENT
	<ul style="list-style-type: none"> • Drills should be held on school property and not on bus route. • Types of bus drills held should be varied. • Drivers should stay in bus during evacuation drills. Be sure that the emergency brake is set, ignition off, keys removed, and transmission in gear. • Do not permit children to take lunch boxes, books, etc., with them when they leave the bus--getting the child off safely in the shortest time possible and in an orderly fashion is the objective of a school bus evacuation drill. • The pupils should go to a distance of <u>at least 100 feet</u> from the bus in an "emergency drill" and remain there in a group until given further directions by the leader. • All children should be given an opportunity to participate, including those children who only ride a bus on special trips. • Each pupil should be instructed in the proper safety precautions while riding the bus and in drill procedure. • Instruct students in how and where to get help. Instructions and telephone numbers should be posted or otherwise carried in the school buses.

USING EMERGENCY EQUIPMENT*

NOTES	CONTENT
	<p>When an emergency or accident happens, it's too late to learn how and where to use the emergency equipment. You should know the location and operation of:</p> <ul style="list-style-type: none">• FUSEES• FLAGS/REFLECTORS• HAZARD FLASHERS• WRECKING BAR/FIRE AXE• FIRST AID KIT• FIRE EXTINGUISHER <p>1. Fusees--as warning devices</p> <ul style="list-style-type: none">a. Thirty-minute fusees encased in a metal container.b. Located in driver's compartment.c. How to light fusees:<ul style="list-style-type: none">(1) Grasp fusee in right hand.(2) Twist and lift off cap with left hand.(3) Strike fusee across cap.(4) Point ignited end away from body.d. Where to place fusees:<ul style="list-style-type: none">(1) Place one fusee at the side of bus on roadway side--safe distance from bus and oncoming traffic.(2) Place second fusee approximately forty paces or 120 feet to rear of bus.

* From state of Ohio (15)

NOTES	CONTENT
	<p>(a) Placement distance should be greater if bus is on a hill or curve.</p> <p>(b) Not to exceed three-hundred feet.</p> <p>(3) Place third fusee forty paces or one-hundred feet to front of bus, again using greater distances if conditions warrant.</p> <p>2. Red flag and red reflectors as warning devices:</p> <p>a. Three red flags and three red reflectors are located in the driver's compartment.</p> <p>b. The flags are for daytime use.</p> <p>c. The reflectors may be used both day and night.</p> <p>d. Follow <u>same directions for placement</u> as explained above for fusees.</p> <p>3. Use four-way hazard flashers with good judgment.</p> <p>4. Wrecking bar.</p> <p>a. Some buses presently in use are equipped with a twenty-four inch wrecking bar (some buses may carry a small fire axe).</p> <p>b. The wrecking bar/fire axe is usually located close to the driver's compartment.</p> <p>(1) Under front passenger seat</p> <p>(2) On the firewall</p> <p>(3) By driver's seat</p> <p>c. Use the wrecking bar/axe to pry open doors, windows, etc., in the event of an accident where damage to vehicle prevents easy exit by normal means.</p>

NOTES	CONTENT
	<p>5. First aid kit</p> <p>a. The first aid kit should be located in the driver's compartment, be dustproof, well-labeled, and conform to federal standards. [Standards require a 16-unit kit for buses carrying up to forty-two passengers and a 24-unit kit for larger buses.]</p> <p>b. For use of first aid kit, see Advanced Unit B on First Aid.</p> <p><u>Replace</u> any item used from emergency equipment supplies as soon as possible.</p> <p>6. Fire extinguishers*</p> <p>a. Fire extinguishers are located in the driver's compartment.</p> <p>b. Classes of fires; different types of extinguishers.</p> <p>Portable fire extinguishers work by either cooling the burning substance or cutting off the supply of oxygen to the burning substance. Which type you use depends on what class of fire occurs. Most buses are equipped with a dry chemical, stored pressure type of extinguisher.</p> <p><u>Classification of Fires</u></p> <p>Accepted standard practices separate fires into three general classes. Study the chart in Figure 5.</p> <hr/> <p>* Adapted from state of California (2)</p>

CLASS A	CLASS B	CLASS C
<p>Fires of ordinary combustible material where the "quenching" and "cooling" effects of quantities of water, or of solutions containing large quantities of water, is of first importance. EXAMPLES: Fires in wood, textile fabrics, rubbish, etc.</p>	<p>Fires in flammable liquids, petroleum products, etc., where the blanketing or "smothering" effect of the extinguishing agent is of first importance. EXAMPLES: Fires in gasoline, oils, and greases in tanks or containers, open vats, or running freely on floors or ground.</p>	<p>Fires involving electrical equipment where the use of a "non-conductor" extinguishing agent is of first importance. EXAMPLES: Fires involving electrical switchboards, motors, or wiring.</p>

Figure 5. Classes of Fire

NOTES	CONTENT
	<p>Most buses are equipped with extinguishers large enough to have an 8-B-C rating; 8-B-C means to be large enough to extinguish a fire of B or C class covering 8 square feet of surface.</p> <p>The two basic fire extinguishers commonly used are the CO₂ and dry powder type.</p> <p><u>CO₂ Extinguishers.</u> CO₂ stands for carbon dioxide and these extinguishers are effective on small <u>surface</u> fires of Class A, on moderate fires of Class B, and on electrical fires of Class C since the gas is a nonconductor.</p> <p>They are particularly effective on flammable liquid fires--alcohol, carbon bisulphide, and similar liquids--which will not support foam. However, they are not effective on deep-seated fires of ordinary combustible materials due to the lack of moisture. The gas or "snow" these extinguishers put out is non-injurious to material. But note that, due to the extreme <u>cold</u> temperature it reaches upon discharge, <u>it will, if held too closely to the skin, cause a burn or frostbite effect.</u> The duration of continuous discharge ranges from one-half to one minute, depending upon size of extinguisher.</p> <p>This type of extinguisher has a maximum range of 8 feet, but best results are obtained by playing the discharge as close to the fire as possible. The discharge should be applied first to the bottom edge of the fire and gradually progressing forward or upward moving the discharge cone <u>very slowly</u> from side to side.</p>

NOTES	CONTENT
	<p>The discharge should continue to be directed on the burned substance or surface to deposit carbon dioxide snow even after the fire has been extinguished. This will prevent possible reflash or backflash by cooling the hot surface and any glowing material or hot spots present.</p> <p>To operate:</p> <ol style="list-style-type: none"> 1. Remove from bracket. 2. If possible, stand upwind from burning material to prevent standing in the smoke and heat. This also will give you better advantage using the wind, if any, to carry the discharge material over the burning area. 3. Hold extinguisher in <u>upright position</u>. Due to construction of cylinder, extinguisher should not be laid on side to operate. 4. Remove hose or point horn toward the fire. 5. Remove safety lock pin by breaking the seal. 6. Squeeze to operate discharge valve. 7. Direct cone nozzle as desired. Care must be taken to prevent reflash. Care also must be taken not to walk into unburned material that could catch fire in a backflash and cause injury to you. 8. Close nozzle as soon as conditions permit. 9. Continue to open and close valve as desired.

NOTES	CONTENT
	<p data-bbox="664 252 1351 465">10. Replace safety lock pin. Any fire extinguisher, regardless of how long or how much discharge was used out of it, should be recharged or replaced with a substitute after use.</p> <p data-bbox="553 499 1396 778"><u>Dry-powder Extinguisher (CO₂ Pressurized).</u> The dry-powder type of extinguisher consists of a charge of specially prepared dry powdered sodium bicarbonate with a cartridge of inert gas, such as carbon dioxide, to provide the expelling force. Discharge is in the form of a cloud of powder together with gas.</p> <p data-bbox="553 812 1366 1211">The range of the cloud may extend up to 25 feet horizontally depending on size of extinguisher and type of nozzle. In contact with fire, the powder gives off additional carbon dioxide gas with its smothering effect. Discharge should be directed at the base of the flames. On flammable liquid fires, best results are obtained when the discharge is directed in a sweeping motion as with carbon dioxide extinguisher.</p> <p data-bbox="553 1245 1396 1503">Dry chemical extinguishers are effective on small fires of Class B, on electrical fires of Class C, and may be effective on small surface fires of Class A. Again, it is best to be upwind whenever possible so as to get greater coverage and protection for the operator.</p> <p data-bbox="627 1538 802 1568">To operate:</p> <ol data-bbox="676 1602 1411 1850" style="list-style-type: none"> 1. Remove from bracket. 2. Approach fire upwind. 3. Hold extinguisher in <u>upright</u> position. Due to construction of cylinder, extinguisher should not be laid on side to operate.

NOTES	CONTENT
	<ol style="list-style-type: none"> 4. Remove safety lock pin by breaking seal. 5. Push lever down to break seal in cartridge. 6. Squeeze nozzle handle. Direct flow of chemical to base of fire. 7. Use at will and release and resqueeze nozzle as needed. 8. Replace safety pin. 9. Replace or recharge immediately after use. <p><u>Dry Chemical Extinguisher (Air Pressurized).</u></p> <p>There is another type of dry chemical extinguisher which is commonly used. Again, they are filled with dry powder, finer than face powder in some cases. A gauge is mounted at the top of the extinguisher indicating the air pressure. The gauges are usually divided into two areas of green and red indicating low and high pressure. If the needle on the indicator stays in the green area, it is properly charged.</p> <p>To operate:</p> <ol style="list-style-type: none"> 1. Remove from bracket 2. Hold in upright position. Due to construction of cylinder, extinguisher should not be laid on side to operate. 3. Pull safety pin by breaking seal. 4. If possible, stand upwind from burning material to prevent standing in smoke and heat. 5. Squeeze handle to discharge the powder.

NOTES	CONTENT
	<ol style="list-style-type: none"><li data-bbox="661 250 1371 373">6. Do not walk into unburned material that could catch fire in a backflash and cause injury to you.<li data-bbox="661 405 1371 479">7. Turn on and off as desired to control the fire.<li data-bbox="661 510 1356 681">8. The fire extinguisher, regardless of the extent of use, should be recharged or replaced with a substitute immediately after use. <p data-bbox="532 745 1133 777">HOW TO GET FIRE EXTINGUISHERS SERVICED</p> <p data-bbox="532 809 1396 972">Fire extinguishers are required to be serviced each year preferably before school starts in September. The servicing must be done by a properly licensed person.</p> <p data-bbox="532 1039 1037 1071">WHAT TO DO AFTER THE FIRE IS OUT</p> <p data-bbox="609 1101 817 1129">Who to call--</p> <p data-bbox="609 1162 958 1190">How to report damage--</p>

LOCAL POLICIES

NOTES	CONTENT
	<p>You are in full charge of the bus at all times. Knowing proper emergency procedures, emergency evacuation procedures, and accident scene procedures is a must! These areas of responsibility deal directly with the safety and care of your passengers in the event of an accident, as well as other emergency situations which may arise.</p> <p>As the school bus driver, you must know:</p> <ul style="list-style-type: none">A. What to doB. How to doC. When to do* <p>Here are your school district's <u>policies on what the driver is to do</u> about eight issues which may arise in an accident/emergency situation.</p> <p>ISSUE 1. Accidental death/injury of bus passenger.</p> <p>ISSUE 2. Death by natural causes while riding the school bus.</p> <p>*From state of Ohio (15)</p>

NOTES	CONTENT
	<p data-bbox="557 260 1237 294">ISSUE 3. Property damage to/by school bus.</p> <p data-bbox="557 797 1386 830">ISSUE 4. Arrangements for tow/repair of school bus.</p> <p data-bbox="557 1308 1426 1387">ISSUE 5. Arrangements for transportation of passengers from scene of bus accident or breakdown</p>

NOTES	CONTENT
	<p data-bbox="556 258 1298 332">ISSUE 6. Reporting procedures for disciplinary action, accidents/breakdowns.</p> <p data-bbox="556 792 1380 866">ISSUE 7. Interactions with pupils and their parents for purposes of discipline.</p> <p data-bbox="556 1320 1380 1395">ISSUE 8. Procedures for reporting to police regarding accidents, drug use, etc.</p>

CORE UNIT C
REVIEW QUESTIONS--PART 1

1. When you are involved in an accident, under what circumstances must you submit an accident report to state enforcement officers?
2. What emergency devices are carried on your bus?
3. When and where should school bus emergency evacuation drills be conducted?
4. When you operate a fire extinguisher, where should you direct the discharge? What type of motion should you use in directing the discharge? In what position should you hold the extinguisher?
5. What is the major cause of school bus accidents?

6. What is the most dangerous part of the bus trip in terms of potential student injuries?

7. How does driving at night increase the potential for accidents?

8. What is the most common mechanical failure on school buses?

9. As a school bus driver, the law says you have a duty to conform to a standard of _____ which will protect your passengers from harm.

10. If you fail to conform to the standard of conduct, and your conduct is connected to someone's injury, you could be liable for _____.

11. The bus driver's standard of conduct is the same as the care used by "a reasonably careful person," except when he is transporting very young children. Then he may be expected to act with a (higher or lower?) _____ degree of care.

12. Name two emergency conditions when you must evacuate the bus.
 - a.
 - b.

13. Why should you not discuss an accident with anyone except school officials and law enforcement officers?
14. How should you arrange for the transportation of your passengers from the scene of a bus accident or breakdown?
15. A gasoline fire is a Type ___ fire.
A fire in the seat upholstery is a Type ___ fire.
An electrical fire is a Type ___ fire.

CORE UNIT C
REVIEW QUESTIONS--PART 2

1. Here is an emergency situation: Your bus has been hit by a motorist approaching from the left; the front end of the bus is pushed into a telephone pole. The engine is smoking. No other motorists are visible. Your bus is half full of passengers. None appear to be injured, although some are crying. The motorist who struck you claims he had the right-of-way. You think he ran a red light. What would you do?
 - a. Indicate the placement/use of warning devices to protect the scene.

 - b. Describe evacuation procedure, if you decide to evacuate students.

 - c. Describe accident procedure, including gathering information from motorist.

2. You have a flat tire on the morning route to school. Describe what you would do.
3. Your instructor will "set" a Type B fire. Use the correct extinguisher to put out the fire.

CORE UNIT D
BUS MAINTENANCE AND INSPECTION

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OBJECTIVES

By the end of this unit you should be able to:

1. Identify interior and exterior maintenance tasks.
2. Perform a pretrip inspection of a bus.

OVERVIEW

NOTES	CONTENT
	<p>Regardless of the engineering skill or workmanship incorporated in a school bus, it cannot continue to deliver maximum safety, economy, and dependability unless it is properly maintained. Although the repair of school buses is wisely left to a skilled mechanic, you can do much to aid the mechanic in locating any trouble and often prolong the life of the vehicle by doing routine maintenance tasks and by daily inspections.</p> <p>Reasons for maintaining a school bus in a clean, sanitary condition include:</p> <ol style="list-style-type: none">1. To safeguard the health of the pupils.2. To reduce the possibilities of accidents among the pupils that might be caused by falling, tripping over objects, or slipping on the floor.3. A clean bus induces a better attitude among the students. If the driver takes pride in keeping his vehicle clean, the children will respond in the same manner.4. The school bus is about the only visual contact many people have with the school system. If they see a clean, well maintained school bus, it will give them a favorable impression of the school as a whole. A dirty, poorly maintained bus will have just the opposite effect.5. To prolong the life of the bus.

GENERAL MAINTENANCE TASKS*

NOTES	CONTENT
	<p data-bbox="544 278 623 304">DAILY</p> <ol data-bbox="589 338 1361 1306" style="list-style-type: none"><li data-bbox="589 338 1361 465">1. Check inside of the bus for mislaid books and clothing; store them to be returned to their owners on the next trip.<li data-bbox="589 499 1361 626">2. Sweep the floor of the bus, being especially aware to sweep water on floor out of bus in the wintertime to prevent its freezing.<li data-bbox="589 661 947 687">3. Sweep steps of bus.<li data-bbox="589 721 1249 747">4. Check seats of bus for damage to them.<li data-bbox="589 782 1361 868">5. Check sides of bus and backs of the seats for pencil/pen marks; clean these.<li data-bbox="589 903 1326 929">6. Readjust mirrors, driver's seat, and vents.<li data-bbox="589 963 1045 989">7. Switch off warning lamps.<li data-bbox="589 1024 1332 1110">8. At the end of the day, check the electrical switch to help prevent a dead battery.<li data-bbox="589 1145 1332 1231">9. Follow authorized procedure for filling gas tank as many times per week as necessary.<li data-bbox="589 1266 1317 1352">10. Follow authorized procedure for having oil filled when indicated. <p data-bbox="544 1376 642 1403">WEEKLY</p> <ol data-bbox="589 1437 1346 1766" style="list-style-type: none"><li data-bbox="589 1437 1346 1473">1. Wash the floor using a disinfectant and mop.<li data-bbox="589 1507 1317 1594">2. Scrub all parts of the seats with soap and warm water.<li data-bbox="589 1628 1011 1655">3. Wash windows and sills.<li data-bbox="589 1689 1078 1715">4. Check operation of windows.<li data-bbox="589 1749 1172 1776">5. Remove and clean interior lights. <hr data-bbox="544 1836 739 1842"/> <p data-bbox="544 1860 1064 1886">*From NHTSA Task Description (14)</p>

NOTES	CONTENT
	<ol style="list-style-type: none">6. Wipe off all interior surfaces not otherwise cleaned.7. Check condition of first aid kit and fire extinguisher.8. Repair minor damages to interior of bus.9. Check outside of bus for dents and scratches.10. Clean all exterior lights and mirrors.11. Clean license plates. <p>NOTES:</p>

PRETRIP INSPECTION*

NOTES	CONTENT
	<p>You must inspect your bus before you put it into operation for a day's work. Such an inspection will help insure the safety of both the pupils and the driver. This practice will also decrease the maintenance costs of the pupil transportation program. Make this daily inspection a matter of routine. The few minutes you invest may pay rich dividends in the savings of lives and property.</p> <p>PRE-STARTING INSPECTION</p> <ol style="list-style-type: none">1. Take a good overall look at the bus.<ol style="list-style-type: none">a. Oil, gasoline, or water leaks.b. Vandalism.2. Open hood--make sure that safety latch, rod, or hinge is in holding position.<ol style="list-style-type: none">a. Check oil level.b. This is the most logical time, as all the oil has drained to the crankcase and an accurate reading can be made.c. Keep oil above "add oil" line.d. Be certain the oil level is not overly full as this may indicate a foreign substance in the oil.3. Remove the radiator cap and check liquid level. It should be above core level.4. Check fan belt for proper tension, cracks, and frayed edges.<ol style="list-style-type: none">a. Most fan belts will operate efficiently if not more than 1/2" give is maintained. <hr/> <p>*Adapted from state of Ohio (15)</p>

DRIVER'S PRETRIP CHECKLIST*

INSIDE

Parking Brake

Start Engine

Oil Pressure (Gauge)

Ammeter

Air Pressure (Gauge)

or

Vacuum (Gauge)

Low Air Warning

(Air pressure below 40 psi, check on pressure buildup. Air pressure above 60 psi, deplete air until warning device works.)

Windshield Wiper & Washer

Heater-Defroster

Mirrors

Instrument Panel (Tell-Tale Lights or Buzzers)

Horn

Emergency Door (Buzzer)

Apply Rear Wheel Brakes in Emergency (Driver Manual Control for Air Brakes)

Windows

Steering Wheel-Play

Warning Devices, Fire Extinguisher, First Aid Kit, Flares, Flags, Reflectors

Turn on all Lights including 4-way Flasher

Other:

OUTSIDE

Front

Headlights

Clearance Lights

Identification Lights

Turn Signals & 4-way Flashers

Alternately Flashing (Amber and Red) Lights

SCHOOL BUS sign visible

Left Side

Sidemarker Lights

Reflectors

Wheels (Lugs) & Tires

Emergency Door (if so equipped)

Rear

Taillights

Stoplights

Turn Signal Lights

Clearance Lights

Identification Lights

Reflectors

Alternately Flashing Red Lights

Emergency Door or Window

SCHOOL BUS sign visible

Right Side

Sidemarker Lights

Reflectors

Entrance Door

Wheels (Lugs) & Tires

INSIDE

Stop Engine

Apply Service Brakes and Hold--
Air loss should not exceed 3
psi per minute

Instructions: Place a checkmark (✓) before each item if satisfactory. If an item is not satisfactory, leave it blank until corrected. Write beside "Other" any other item that should be called to the attention of the service manager.

* Adapted from state of Arizona (1)

Figure 1. Suggested Job Aid for Pretrip Inspection

School Bus Drivers Five-Minute Daily Walk-Around

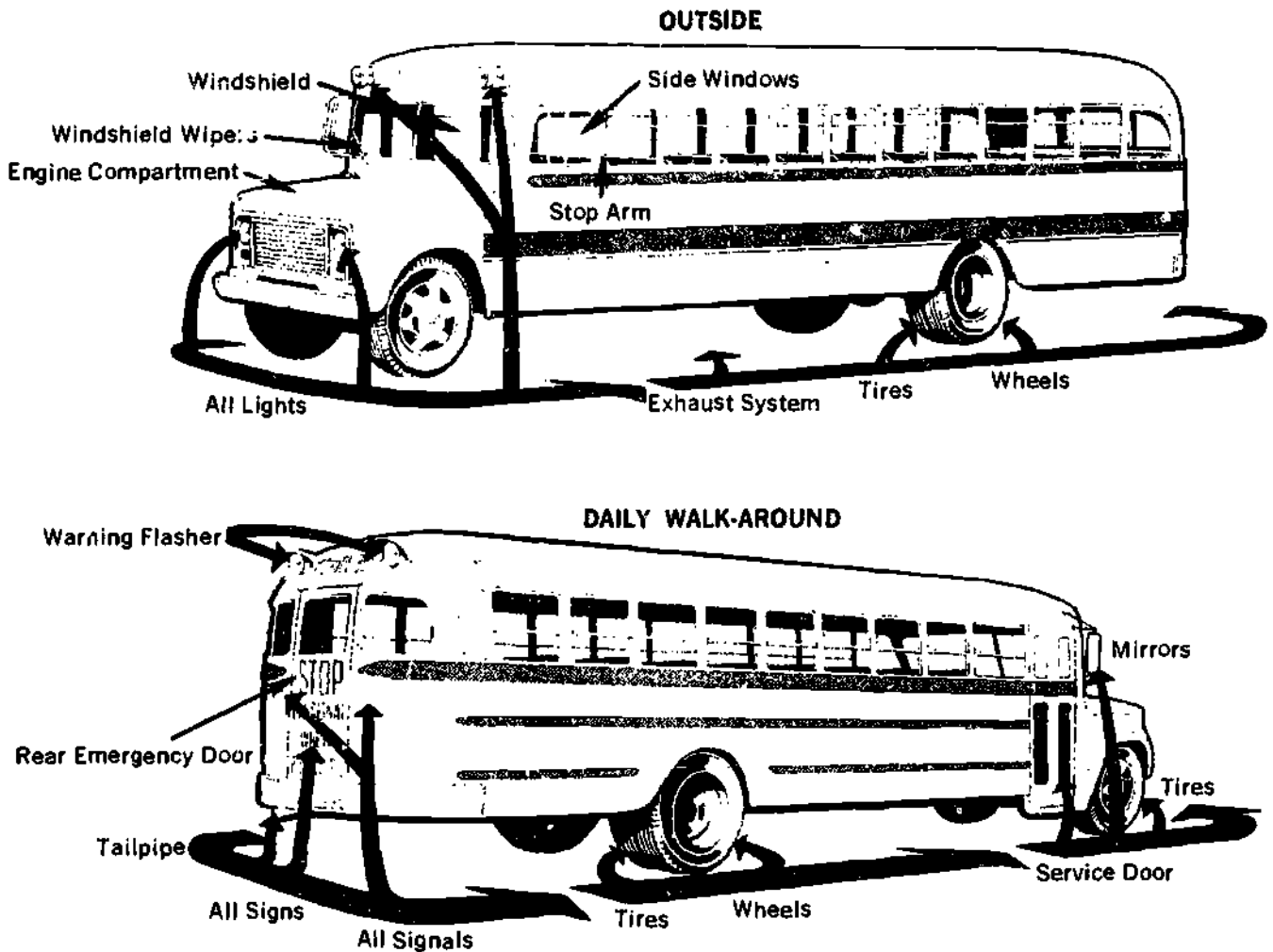


Figure 2. Pretrip Inspection

NOTES	CONTENT
	<p>b. A run-down battery in most cases is traced to a loose fan belt and/or a driver's failure to observe his instrument panel occasionally.</p> <p>5. Look over engine for any loose wires, tools left in engine compartment, and any excess oil.</p> <p>6. Close the hood.</p> <p>7. Wipe windshield, turn signals, and warning lights clean.</p> <p style="text-align: center;"><i>NOTE: Windshield must be clean before turning on wipers.</i></p> <p>8. Set parking brake. Start the engine, using proper engine starting procedures. In allowing the engine to warm up, accelerator should be set for a fast idle. <u>Do not race the engine</u>, as stiff oil will not lubricate fast enough; this can cause bearing damage.</p> <p>FIRST OUTSIDE-INSIDE INSPECTION</p> <p>1. Turn on left directional light, marker lights, and headlights (high beam).</p> <p>2. From inside of bus, check operating condition of dash-mounted turn indicator signal, high beam indicator, and instrument panel light.</p> <p>3. From outside of bus, check left directional signal, marker lights, and headlights. Check for intensity of light, condition of lens, and dark spots on sealed beam unit.</p>

NOTES	CONTENT
	<p data-bbox="555 294 1062 322">SECOND OUTSIDE-INSIDE INSPECTION</p> <ol style="list-style-type: none"> <li data-bbox="605 355 1362 478">1. Turn on right directional lights, warning lights, headlights (low beam), and passenger compartment lights. <li data-bbox="605 511 1396 592">2. From inside of bus, check operating conditions of switches and dash-mounted indicators. <li data-bbox="605 625 1381 842">3. From outside of bus, check right directional signal, flasher lights, taillights, and headlights (low beam). Check for intensity of light, condition of lens, and dark spots on sealed beam units. <li data-bbox="605 874 1351 956">4. Wipe taillights, stoplights, and headlights clean. <li data-bbox="605 989 1396 1071">5. Tires--check for inflation (use hammer or bar) and general condition. <li data-bbox="605 1103 1396 1226">6. Wheel bolts--check visually for tightness, and rust dust around edge of bolt or nut. This is a good indication of a loose wheel bolt. <li data-bbox="605 1259 1411 1340">7. Emergency door--check the opening and closing and see that the emergency buzzer is operating. <li data-bbox="605 1373 1347 1537">8. Windows and mirrors--check for cleanliness, cracks, or breaks. Good visibility should always be maintained by clean windows and mirrors. <li data-bbox="605 1569 1050 1855">9. View underneath of bus. <ol style="list-style-type: none"> <li data-bbox="673 1631 1050 1659">a. Oil or grease leaks. <li data-bbox="673 1692 970 1721">b. Exhaust system. <li data-bbox="673 1753 1050 1782">c. Springs and hangers. <li data-bbox="673 1815 926 1843">d. Body clamps.

NOTES	CONTENT
	<p>10. Body--check general condition noting any scratches or dents as well as the legibility of bus markings. Many times these markings are coated with so much road dust that they cannot be read nor can it even be distinguished that the vehicle is a yellow school bus.</p> <p>INTERIOR EQUIPMENT INSPECTION</p> <ol style="list-style-type: none"> 1. Emergency equipment. <ol style="list-style-type: none"> a. Held securely in place. b. Contents of first aid kit. c. Contents of fire extinguisher--Note the position of the pressure gauge indicator. The needle should always be in full charge area. d. Flags, fusees, and/or reflectors. e. Wrecking bar/fire axe. 2. Check the horn loudness and operating condition of horn button. 3. Windshield and wipers. <ol style="list-style-type: none"> a. Cleanliness of windshield inside. b. Condition of wiper blades and their operation. c. Wiper motor operation. 4. Dashboard gauges. <ol style="list-style-type: none"> a. Check operating condition and visibility of all gauges.

NOTES	CONTENT
<p>7</p>	<ul style="list-style-type: none"> b. Attention should be given to these gauges for their proper function at all times when engine is in operation. 5. Check four-way warning hazard switch (when applicable). 6. Brakes--check: <ul style="list-style-type: none"> a. The holding power of the parking brake. b. The holding power of the parking and/or emergency air brake (when applicable). c. For full pedal on foot brake and the position the pedal holds under continued pressure (hydro-vac or hydraulic systems). d. Air brakes--Depress foot pedal and listen for air leaks. e. Brake lights working. This can be checked by having the rear of the bus near a building or by noting the movement of the ammeter hand. f. Brake operation before leaving parking lot. 7. Drain water from air storage tank daily. <ul style="list-style-type: none"> a. Manual--Use the petcock on the wet-tank drain once daily, preferably at the end of the trip. b. Moisture ejectors will operate: <ul style="list-style-type: none"> (1) Automatically. (2) Manually--with button on the dash. c. Local policy:

NOTES	CONTENT
	<ul style="list-style-type: none">8. Condition of seats and floor.9. Writing on seats and inner skin of body.10. Emergency door operation from inside and wipe rear warning lights.11. Clutch.<ul style="list-style-type: none">a. Chattering or grabbing clutch.b. The amount of free pedal.c. A clutch that does not release properly.d. A slipping clutch.12. Check body instrument panel.13. Steering--When leaving the parking area, check for stiffness and free or loose movement. <p>NOTES:</p>

SCHOOL BUS DRIVER'S MAINTENANCE REQUEST*

Bus No. _____

Date _____

Driver's Name _____

Mileage _____

Item	Repair	Adjust	Comments

Mechanic's Comments: _____

Approved: _____

(Supervisor's Signature)

Date

*From state of Ohio (15)

Figure 3. Sample Report Form

CORE UNIT D
REVIEW QUESTIONS

1. During the Pretrip Inspection, you should check the inside and _____ of the bus.
2. Suppose your ammeter was registering a discharge during your pretrip inspection. What should you do?
3. How do you check for proper tire pressure?
4. If it's raining or snowing, what condition on the inside of the bus should you check for?
- 5-7. In addition to the pretrip inspection, list three daily maintenance tasks you should perform.
 - 5.
 - 6.
 - 7.
- 8-10. List at least three weekly maintenance tasks you should perform.
 - 8.
 - 9.
 - 10.

CORE UNIT E
DRIVING FUNDAMENTALS

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OBJECTIVES

By the end of this unit, you should be able to:

1. Identify basic driving maneuvers.
2. Discuss state laws and local policies related to basic driving maneuvers.
3. Demonstrate basic maneuvers behind the wheel of a bus.

OVERVIEW

NOTES	CONTENT
	<p>In past years, accidents involving school buses were caused by the school bus driver in about fifty percent of the cases. In those accidents, drivers did not follow proper procedures of driving fundamentals.</p> <p>You have entrusted to you the lives and safety of a human cargo that cannot be measured in terms of dollars and cents. The purpose of this unit is to teach you the basic skills necessary to operate buses safely and efficiently in transporting this valuable cargo.</p> <p>Not only will you learn the procedures for basic driving skills, but you will practice each skill correctly to become proficient. Through practice, each correct basic procedure will become a habit and will improve your performance as a school bus driver.</p> <p>CAR VS. SCHOOL BUS DRIVING--SOME SIMILARITIES AND DIFFERENCES</p>

GETTING READY TO DRIVE*

NOTES	CONTENT
	<p>To be a good bus driver, you must position yourself <u>in control</u>; you must be able to reach and operate the controls in comfort and be able to see the areas all around the bus.</p> <ol style="list-style-type: none">1. Adjust seat so that your feet can operate floor controls easily.2. Adjust (or check) all mirrors for optimum rear vision of traffic behind the bus, and for proper vision to both sides and across the front of the bus.3. Fasten and adjust seat belt, if available.4. Go through shift pattern with clutch depressed, if bus make is unfamiliar. <p>REASONS AND LOCAL SPECIFICATIONS:</p> <hr/> <p>* Adapted from state of Ohio (15)</p>

STARTING THE ENGINE

NOTES	CONTENT
	<p>The procedure used in starting a bus engine must become a matter of routine. It must incorporate principles of safety and be performed in keeping with good engine preventive maintenance practices.</p> <ol style="list-style-type: none">1. Set parking brake to keep bus from moving.2. Depress clutch pedal to disengage engine from transmission.3. Shift gear lever into neutral position.4. Turn on ignition key to complete electric circuits.5. Engage starter switch with clutch depressed and gear shift in neutral.<ol style="list-style-type: none">a. Use hand choke if necessary and available. Over choking will cause carburetor flooding.b. Use foot accelerator sparingly. Pumping will cause carburetor flooding.c. Bus engines will vary widely in their carburetor sensitivity; therefore, do not hesitate to ask the supervisor or bus mechanic for special techniques in starting a particular bus. <p>NOTES ON YOUR PARTICULAR TYPE OF BUS:</p> <ol style="list-style-type: none">6. Warm up engine at fast idle; do not race the engine.

NOTES	CONTENT
	<p>7. Check instruments to see that they are registering properly:</p> <ul style="list-style-type: none">a. Ammeter registering in plus direction.b. Oil gauge at middle of instrument.c. Temperature gauge at midpoint.d. Gas gauge registering <u>full</u> (or enough to complete run).e. Vacuum gauge light is <u>not</u> on (for hydraulic brakes).f. Air pressure gauge light and/or buzzer are <u>not</u> on (for air brakes).

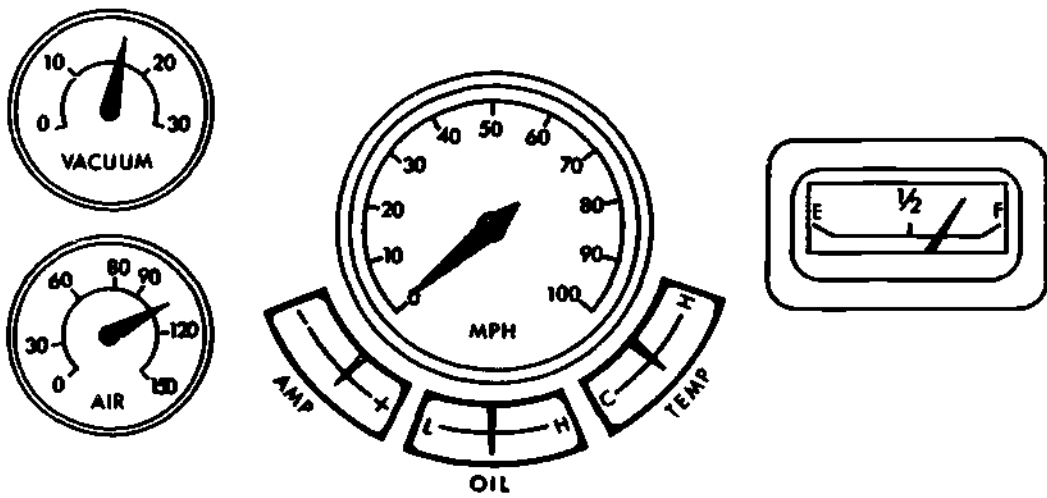


Figure 1. Ideal Instrument Readings

SHIFTING GEARS AND ACCELERATING

NOTES	CONTENT
	<p data-bbox="550 318 1391 633">Gear shifting is a phase of bus driving which requires skill and practice. You must learn the best range of speed in changing gears upward and downward. You must shift the gears without losing your view of the road. Synchro-mesh transmissions have alleviated most of the gear clashing. Generally, buses are equipped with a four- or five-speed transmission.</p> <ol data-bbox="675 666 1406 1949" style="list-style-type: none"><li data-bbox="675 666 1406 825">1. Know the gear positions.<ol data-bbox="739 727 1406 825" style="list-style-type: none"><li data-bbox="739 727 1406 764">a. Check chart on lever knob or on dash.<li data-bbox="739 788 1406 825">b. Ask mechanic.<li data-bbox="675 854 1406 891">2. Depress clutch pedal.<li data-bbox="675 919 1406 1328">3. Shift gear lever into starting gear.<ol data-bbox="739 981 1406 1328" style="list-style-type: none"><li data-bbox="739 981 1406 1062">a. For average terrain and load, this should be second gear.<li data-bbox="739 1091 1406 1173">b. Load and/or terrain may dictate the use of first gear.<li data-bbox="739 1201 1406 1328">c. Never start out in a gear higher than second as this places undue load and wear on the engine and clutch.<li data-bbox="675 1357 1406 1394">4. Depress foot brake.<li data-bbox="675 1422 1406 1545">5. Release parking brake lever. If ratchet type, pull brake lever slightly back to release pressure.<li data-bbox="675 1573 1406 1798">6. Release clutch gradually to friction point and hold. At this point, you will have the clutch just at the point of friction and the foot brake on and ready to release. Release foot brake.<li data-bbox="675 1827 1406 1949">7. Depress accelerator. Hold point of clutch friction and slightly depress accelerator to increase the power to prevent stalling.

NOTES	CONTENT
	<ol style="list-style-type: none"> 8. Release clutch. <ol style="list-style-type: none"> a. Slowly and gradually release the clutch to the remainder of pedal travel and at the same time slowly and gradually increase the acceleration. b. Remove foot from clutch pedal completely. c. Pick up engine speed before shifting to higher gear. 9. Shift to next higher gear. <ol style="list-style-type: none"> a. Depress clutch pedal and release accelerator. b. Shift to next higher gear. c. Release clutch smoothly but more quickly than in starting gear and depress accelerator smoothly and quickly. <ol style="list-style-type: none"> (1) To prevent loss of vehicle speed. (2) Do not race the engine and slip the clutch. d. Remove foot from clutch pedal. e. Proceed in this gear until proper vehicle speed is reached for shifting to next gear. 10. Repeat Step 9 procedures until the bus is in cruising gear. 11. When practical, don't skip a gear in upshifting or downshifting as this causes undue engine and clutch wear.

Approximate M.P.H. to be reached before upshifting or downshifting. M.P.H. may vary slightly depending on make of engine, transmission, gear ratio, and terrain.

Upshifting		Downshifting	
From 1 to 2 Gear	1-5 M.P.H.	From 5 to 4 Gear	30-35 M.P.H.
2 to 3 Gear	5-12 M.P.H.	4 to 3 Gear	25-30 M.P.H.
3 to 4 Gear	12-20 M.P.H.	3 to 2 Gear	5-10 M.P.H.
4 to 5 Gear	25-30 M.P.H.	2 to 1 Gear	Stop

Figure 2. Appropriate Gears for School Bus Speed

NOTES	CONTENT
	<p>12. Shift up or down as may be necessary to prevent engine lugging or excessive engine RPM.</p> <p>13. In going down a hill, shift into the gear that would be used in going up the hill.</p> <p>NOTES:</p>

DOUBLE CLUTCHING

NOTES	CONTENT
	<p>Synchromesh transmissions have almost eliminated the need to double clutch. Shifting the gears on nonsynchromesh transmissions is done faster and smoother by double clutching. This process coordinates the engine speed and transmission speed for non-clashing of gears. Double clutching aligns the gears for easy upshifting and downshifting. The gears should never be forced by improper timing of the shifting process. Reclutching and speeding up the engine will in most cases prevent excessive clashing. Never allow the engine to pull heavily going upgrade, on a turn, or on a curve. And, don't let the engine over-race on a downgrade.</p> <ol style="list-style-type: none">1. Double clutching, upshifting.<ol style="list-style-type: none">a. Depress clutch pedal and release accelerator.b. Shift gear lever to neutral position.c. Release clutch pedal momentarily to engage clutch.d. Depress clutch pedal and shift to next higher gear.e. Release clutch and accelerate engine at the same time.2. Double clutching, downshifting<ol style="list-style-type: none">a. Depress clutch pedal and release accelerator.b. Shift gear lever to neutral position.c. Release clutch pedal momentarily to engage clutch and accelerate engine to more than original speed.

NOTES**CONTENT**

- d. Depress clutch and shift to next lower gear.
- e. Release clutch pedal gradually and accelerate engine to match the speed of vehicle.

3. Related items of double clutching

- a. The double clutching procedure may be slow or fast depending upon the type of bus.
- b. Normally, downshifting two gears is sufficient.
- c. Double clutching requires continuous practice.
- d. Synchromesh transmissions may be double clutched.

NOTES:

SHIFTING AUTOMATIC TRANSMISSION

NOTES	CONTENT
	<p data-bbox="540 290 1330 368">Some buses are equipped with automatic transmissions and you should know how to operate them.</p> <ol data-bbox="666 399 1377 1298" style="list-style-type: none"><li data-bbox="666 399 1122 431">1. Know the shift positions.<li data-bbox="666 459 1025 491">2. Depress foot brake.<li data-bbox="666 520 1282 598">3. Move selector lever into forward or drive position.<li data-bbox="666 626 1074 659">4. Release parking brake.<li data-bbox="666 687 1316 766">5. Release foot brake and depress accelerator.<li data-bbox="666 794 1359 973">6. As speed of bus increases, the transmission will automatically shift to the next higher gear until reaching cruising gear.<li data-bbox="666 1001 1214 1034">7. Downshift for additional power.<ol data-bbox="729 1062 1377 1298" style="list-style-type: none"><li data-bbox="729 1062 1377 1191">a. Depress accelerator to the floor firmly. This will cause transmission to downshift one gear.<li data-bbox="729 1219 1316 1298">b. Move selector lever to next lower position.

STEERING AND TURNING

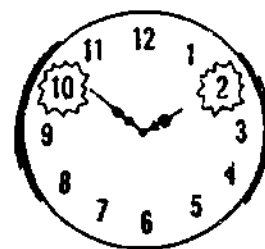
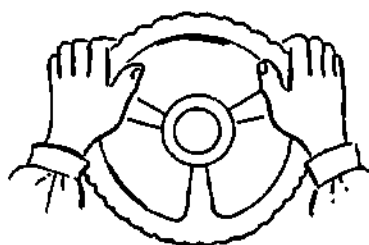
NOTES

CONTENT

To be classified as an expert driver, you must be able to assume the correct steering position and make all the turning maneuvers correctly and smoothly. Learn the correct procedures necessary to prepare for the turn, make the turn, and re-enter the traffic pattern. When you're confronted with an unusual turn or turnaround, turn with extreme caution. The raising of speed limits and the super-highway systems upon which the school buses may travel, forces you to use added skills and judgment in making turns properly and safely.

1. Steering positions.

- a. Grip the steering wheel with both hands.
- b. Left hand at approximately 10 o'clock position.
- c. Right hand at approximately 2 o'clock position.



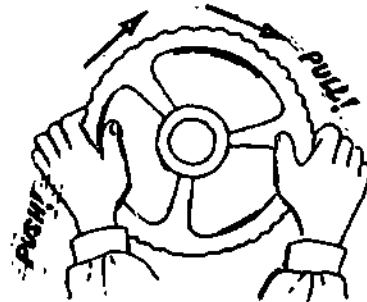
- d. Hands on outside of steering wheel and thumbs on top or outside of wheel.
- #### 2. Focus eyes on road ahead as well as all around the bus.
- a. Eyes should be constantly on the move to obtain the "big picture."

NOTES

CONTENT

b. Look ahead; use left side, right side and rearview mirrors.

3. The push-pull steering method is recommended for school bus drivers. One hand pulls and the other hand pushes.



4. Hand over hand method may catch thumb in clothing, safety chain on the wrist watch, bracelets, etc., which are hazards to steering.

5. Preparing for turns.

a. Check traffic to the front and rear of the bus.

b. Give proper signal to move vehicle into proper lane.

6. Making right turn.

a. Give proper right hand turn signal.

b. Reduce speed and downshift to proper gear needed to execute turn.

c. Position bus in right of the lane.

d. Check for clear right of way.

(1) Traffic signals, signs, pedestrians, or vehicles.

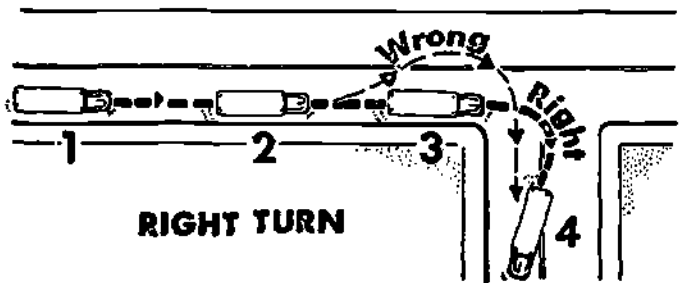
(2) Use both outside mirrors.

NOTES

CONTENT

e. Execute the turn.

- (1) Make turn smoothly without strain on the engine.
- (2) Never shift gears during a turn.
- (3) Check right mirror while executing turn.
- (4) Enter the right most lane available and check turn signal for cancellation.
- (5) Steer wheels back into position—do not let steering wheel spin wheels back into position.



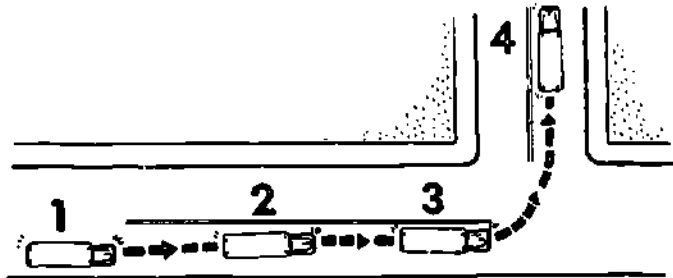
NOTES:

NOTES	CONTENT
	<p>7. Making left turn</p> <ul style="list-style-type: none"> a. Give proper left hand turn signal. b. Reduce speed and downshift gear. c. Position bus to the left edge of the lane. d. Check for clear right of way. <ul style="list-style-type: none"> (1) Traffic signals, signs, pedestrians, or vehicles. (2) Use both outside mirrors. (3) If necessary to stop, <u>keep front wheels straight</u> and brake pedal depressed. <ul style="list-style-type: none"> (a) Prevents drifting and activates stop lights. (b) Prevents being shoved into line of approaching traffic if struck from the rear. e. Execute the turn. <ul style="list-style-type: none"> (1) Drive into the intersection, make turn smoothly, and without strain on the engine. (2) Check left mirror while executing turn. (3) Never shift gears in a turn.

NOTES

CONTENT

- (4) Enter the highway in the left-most lane available and check turn signal for cancellation.

**LEFT TURN**

- f. After completing the left turn upon multiple lane highways, pick up speed, activate right turn signal and move into right hand lane as soon as possible.

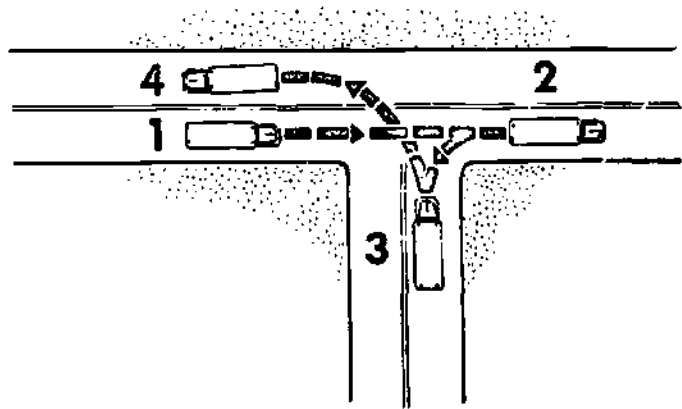
NOTES:

8. Making a turnaround
- a. Give brake signal well in advance of turnaround.
 - b. Stop bus in proper position on roadway.
 - (1) One bus length ahead of road to be backed into.
 - (2) Check traffic front and rear.
 - (3) Visibility shall be ___ feet in either direction.

NOTES

CONTENT

- (4) Have traffic move around bus if possible.
- (5) Back into roadway or driveway using outside mirrors.
- (6) Re-enter roadway.
 - (a) Check traffic
 - (b) With caution



TURNAROUND

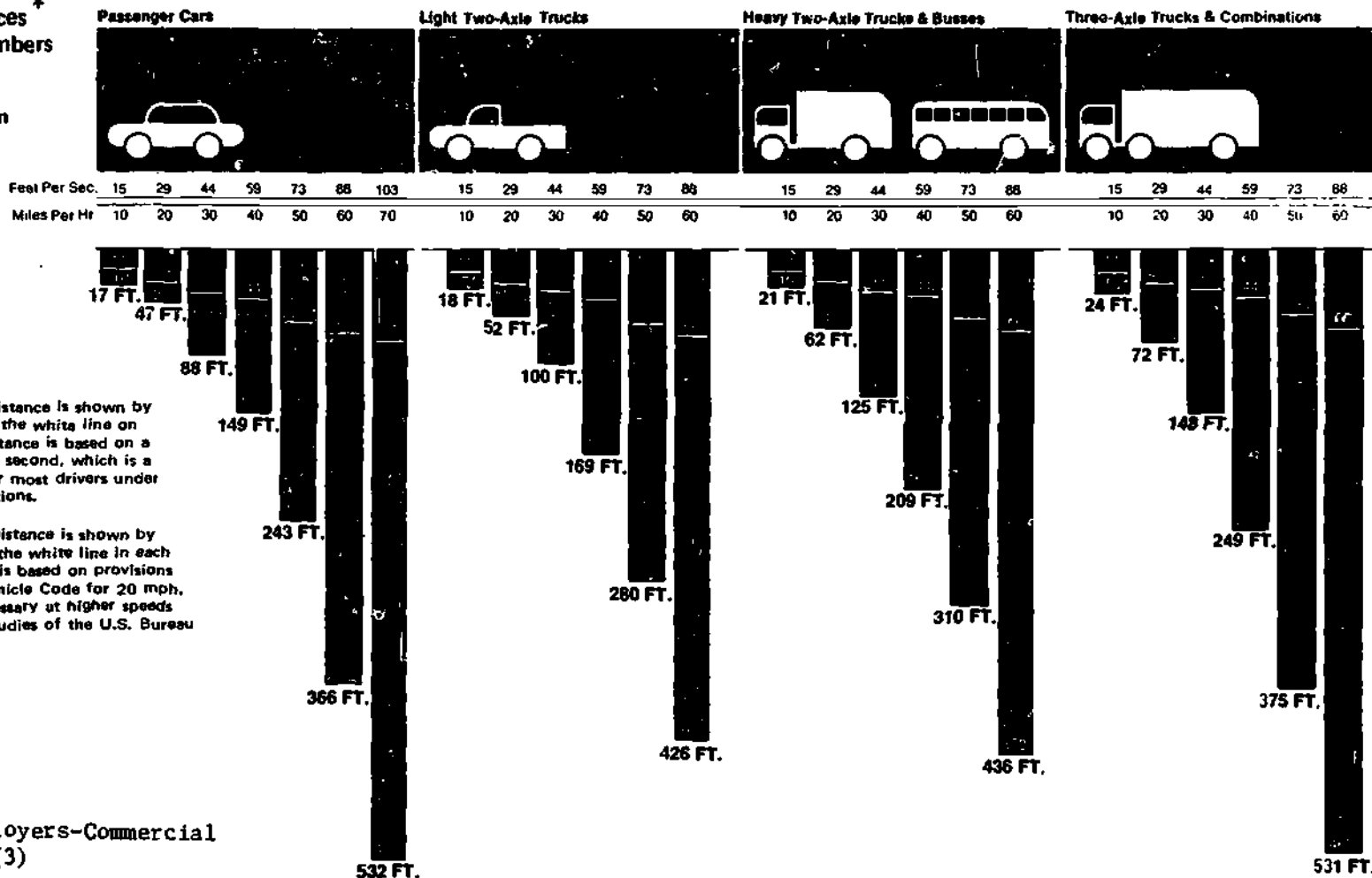
NOTES:

STOPPING AND PARKING BUS

NOTES	CONTENT
	<p>Stopping a school bus smoothly and within the limits of safety is another sign of an expert driver. As a good driver, you have your vehicle under control at all times and know that braking distances increase greatly as the speed and weight of the bus increases. With an ideal reaction time of $\frac{3}{4}$ of a second, you must realize that at 20 m.p.h. the average stopping distance is 62 feet, and at 40 m.p.h. the stopping distance is 209 feet or more than three times greater. Figure 3 shows approximate stopping distance required at various speeds. The top part of each bar indicates the distance traveled during reaction time ($\frac{3}{4}$ of a second). The lower part of each bar shows actual stopping distance after the brake is applied. The last number below the bar shows total stopping distance.*</p> <p>The skillful driver also knows that by using correct stopping procedures the maintenance costs on the braking system will be less.</p> <ol style="list-style-type: none">1. Stopping when in a low gear or 10 m.p.h. and less.<ol style="list-style-type: none">a. Depress clutch pedal and release accelerator.b. Apply brakes gradually by increasing pressure.c. Reduce brake pressure slightly, but not completely just before coming to a stop to prevent jerking.d. Shift gear lever into neutral position.e. Release clutch and remove foot from pedal. <p>* From <u>Employers-Commercial Union Companies (3)</u></p>

**Total Stopping Distances*
are Shown by the Numbers
Below Each Bar**

**All Distances Are Based on
Hard Dry Surfaces**



* Adapted from Employers-Commercial Union Companies (3)

Figure 3. Stopping Distances at Various Highway Speeds

NOTES	CONTENT
	<p>2. Stopping when in cruising gear.</p> <ul style="list-style-type: none"> a. Release accelerator and depress brake pedal. b. When proper m.p.h. is obtained for any gear, downshift to next lower gear. <ul style="list-style-type: none"> (1) Will reduce heat build-up. (2) Reduce excessive brake wear. c. Downshifting can be very effective and smooth. <ul style="list-style-type: none"> (1) Third gear for 5-speed transmission. (2) Second gear for 4-speed transmission. <p>3. Parking the bus.</p> <ul style="list-style-type: none"> a. Shift lever into low gear on level or upgrade. b. Shift lever into reverse gear on downgrade. c. Turn wheels into curb. d. Turn off ignition and remove ignition key. e. Release clutch and take foot off pedal. f. Set parking brake (parking brake may freeze in wet freezing weather). <p>NOTES:</p>

RAILROAD CROSSINGS

NOTES	CONTENT
	<p>Many accidents could be eliminated through planned safety procedures for crossing railroad tracks. Learn these procedures and practice them until they become automatic actions.</p> <p>Crossing railroad tracks represents one of the greatest hazards insofar as mass casualties and fatalities are concerned. STOP, LOOK, and LISTEN. All school buses loaded or empty should stop for railroad crossings as a matter of <u>safety</u> if not a matter of law.</p> <ol style="list-style-type: none">1. Prepare to stop.<ol style="list-style-type: none">a. Request silence.<ol style="list-style-type: none">(1) This is recommended so that you have minimal distraction.(2) Turn heaters off if necessary to have more silence.b. Get "Big Picture," check traffic control devices.2. <u>STOP</u> the bus.<ol style="list-style-type: none">a. Follow legal stopping procedures.b. Stop in a position that gives a clear view of the tracks in both directions. The front bumper must be clear of the tracks.c. Shift into neutral.3. <u>LOOK</u> and <u>LISTEN</u>.<ol style="list-style-type: none">a. Open service door and driver's window.b. Look and listen through the open window and door.

NOTES	CONTENT
	<p>4. If <u>no</u> indication of approaching train.</p> <p>a. Shift into starting gear.</p> <p>(1) Must be a gear that will take bus across tracks without hesitation.</p> <p>(2) Shifting gears on tracks <u>shall not be permitted</u>.</p> <p>b. Look and listen a second time, close door and proceed quickly and smoothly.</p> <p>5. If there <u>is</u> an approaching train.</p> <p>a. Hold bus position; use the parking brake depending on waiting time.</p> <p>b. After train passes, follow items under Procedure 4.</p> <p>6. Multitrack crossings.</p> <p>a. Make sure no train is approaching on any of the tracks.</p> <p>b. After a train passes, wait until other tracks become visible before proceeding. A second train may be approaching from the opposite direction.</p> <p>c. Follow items under Procedure 4.</p> <p>7. Railroad traffic control devices.</p> <p>a. Flasher lights and bells</p> <p>(1) Warning of an approaching train.</p> <p>(2) If train is stopped or signal is malfunctioning, a vehicle may proceed after driver insures a safe crossing can be made.</p>

NOTES**CONTENT****b. Gates**

- (1) All traffic must obey these devices.
- (2) Vehicles may proceed around the gates only at the direction of a law enforcement officer or an authorized railroad representative.

c. Railroad crossing controlled by a flagman

- (1) Make a safety stop.
- (2) Follow directions of the flagman.

NOTES:

BACKING IN A STRAIGHT LINE

NOTES	CONTENT
	<p data-bbox="535 294 1336 419">You must be able to back straight into a given space without allowing the bus to scrape or hit stationary objects.</p> <ol data-bbox="661 451 1336 1028" style="list-style-type: none"><li data-bbox="661 451 1301 479">1. Stop bus in correct position to back.<li data-bbox="661 512 1322 685">2. Direct members of bus patrol or other responsible person (if available) to stand near rear of bus to give signals for safe backing.<li data-bbox="661 717 1336 745">3. Using mirrors, check that way is clear.<li data-bbox="661 778 1161 806">4. Put transmission in reverse.<li data-bbox="661 838 1336 919">5. Using mirrors, back slowly and smoothly in a straight line.<li data-bbox="661 951 1307 1028">6. Stop at desired point without hitting any object. <p data-bbox="535 1092 628 1120">NOTES:</p>

STARTING AND STOPPING ON A HILL

NOTES	CONTENT
	<p data-bbox="550 302 839 329">STARTING ON A HILL</p> <ol data-bbox="599 363 1396 1003" style="list-style-type: none"><li data-bbox="599 363 1396 580">1. With right foot on brake, left foot depressing the clutch and transmission, and gear shift lever in second gear, release the clutch slowly until the engine begins to labor slightly.<li data-bbox="599 615 1074 641">2. Hold clutch at that point.<li data-bbox="599 676 1396 846">3. With right foot release brake pedal and drop right foot onto the accelerator, giving enough gas to hold the weight of the bus <u>without drifting backward</u>.<li data-bbox="599 880 1396 1003">4. Release clutch smoothly until completely out, giving enough gas to pull the bus smoothly up the hill. <p data-bbox="550 1071 995 1097">STOPPING ON A HILL (UPGRADE)</p> <ol data-bbox="599 1132 1366 1438" style="list-style-type: none"><li data-bbox="599 1132 1044 1158">1. Check following traffic.<li data-bbox="599 1193 1332 1220">2. Apply the brake lightly for a smooth stop.<li data-bbox="599 1255 1322 1330">3. Depress clutch with left foot; shift into neutral.<li data-bbox="599 1365 1366 1438">4. Allow an extra safety margin between the bus and the vehicle ahead on an upgrade. <p data-bbox="550 1506 1029 1533">STOPPING ON A HILL (DOWNGRADE)</p> <p data-bbox="632 1567 1347 1594">Stop as you would on an <u>upgrade</u>, except also:</p> <ul data-bbox="681 1629 1396 1772" style="list-style-type: none"><li data-bbox="681 1629 1396 1704">• After step 1: downshift to reduce speed as you see the need to stop.<li data-bbox="681 1739 1317 1772">• After step 2: tap brakes about twice.

ENTERING THE FLOW OF TRAFFIC

NOTES	CONTENT
	<p data-bbox="544 282 656 308">GENERAL</p> <ol data-bbox="594 345 1391 1126" style="list-style-type: none"><li data-bbox="594 345 1355 372">1. Stop at point of entry into the traffic flow.<li data-bbox="594 410 1199 437">2. Activate right or left turn signal.<li data-bbox="594 476 1391 547">3. Look to determine that there are no pedestrians in the path of the bus.<li data-bbox="594 586 1359 658">4. Check mirror to determine that all passengers are seated.<li data-bbox="594 697 1330 813">5. Look to right and left to determine whether there are vehicles in motion on the roadway to be entered.<li data-bbox="594 852 1359 923">6. Yield right-of-way to vehicles already on the road.<li data-bbox="594 962 1391 1126">7. Look for suitable gap in traffic and when safe, accelerate smoothly into road, neutralizing the turn signal as right lane position is established. <p data-bbox="544 1197 904 1224">CROSSING INTERSECTIONS*</p> <ol data-bbox="594 1261 1406 1790" style="list-style-type: none"><li data-bbox="594 1261 1391 1377">1. Observe the traffic ahead and from the left and right when <u>approaching and traversing intersections</u>.<ol data-bbox="652 1416 1391 1790" style="list-style-type: none"><li data-bbox="652 1416 1391 1580">a. Watch for vehicles which are close and fast approaching the intersection. Decelerate or stop to permit those vehicles to clear the intersection.<li data-bbox="652 1618 1406 1790">b. Watch for vehicles approaching from the left and signalling a right turn. Decelerate and prepare to enter the intersection only after the vehicle has begun the turn. <p data-bbox="544 1876 1355 1917">*Adapted from NHTSA Driver Education Curriculum (11)</p>

NOTES	CONTENT
	<ul style="list-style-type: none"><li data-bbox="652 284 1362 451">c. If your vision is obscured (e.g., by buildings, trees, parked vehicles, etc.), stop at the intersection and edge forward slowly.<li data-bbox="588 485 1380 566">2. Observe other traffic when <u>proceeding directly through an intersection</u>.<ul style="list-style-type: none"><li data-bbox="652 600 1380 681">a. Observe other traffic and yield the right-of-way if necessary.<li data-bbox="652 707 1380 828">b. Observe traffic preparing to turn left and prepare to stop should a left turn be indicated.

ADJUSTING THE SPEED OF THE BUS

NOTES

CONTENT

You must operate the bus within posted speed limits and with consideration of prevailing environmental conditions. The basic rule-of-thumb is to drive at no greater speed than will permit stopping within the assured clear distance ahead.

URBAN:

RESIDENTIAL:

NOTES

CONTENT

RURAL :

HIGHWAY :

LANE USE AND POSITION ON ROADWAY

NOTES	CONTENT
	<ol style="list-style-type: none">1. Stay in one lane for normal driving, not straddling lane marker lines or obstructing more than one lane.2. Use parking lane only for stopping and parking.3. Where there is more than one lane for traffic going in one direction, travel in the furthest right lane (not including parking lane) unless passing or turning to the left.4. Drive at a safe distance from other vehicles--at least ___ feet from a followed vehicle; at least ___ feet from a followed bus in convoy; at least ___ feet from a preceding bus leaving the school grounds. <p>NOTES:</p>

NOTES	CONTENT
	<p data-bbox="557 273 783 302">CHANGING LANES</p> <p data-bbox="557 337 1335 414">Look for rear-approaching traffic in the new lane when <u>deciding to change lanes</u>.</p> <ol data-bbox="687 445 1394 977" style="list-style-type: none"><li data-bbox="687 445 1394 568">1. Look out the window to check any blind spot, move your head enough to see around the blind spot.<li data-bbox="687 602 1394 725">2. On multi-lane roads, look for vehicles about to enter the new lane from the far adjacent lane.<li data-bbox="687 760 1394 977">3. Check the rearview mirror(s) to observe vehicles passing in the new lane, following vehicles closing fast from the rear in the new lane, and following vehicles about to enter the new lane. <p data-bbox="557 1038 652 1066">NOTES:</p>

BEING OVERTAKEN AND PASSED

NOTES	CONTENT
	<ol style="list-style-type: none">1. When there is no possible hazard:<ul style="list-style-type: none">• Stay in right-hand lane• Maintain speed2. When another vehicle is <u>also</u> approaching from the opposite direction creating a hazard for the vehicle trying to pass you:<ul style="list-style-type: none">• Slow bus to allow car to safely pass before oncoming vehicle reaches you, or• Move to parking lane or leave roadway if it seems that <u>passing</u> vehicle can't complete the pass before <u>oncoming</u> vehicle reaches you.3. When on a narrow road, following traffic is built up, and a regular stop is not coming up soon:<ul style="list-style-type: none">• Pull to side of road (if possible) using right turn signal, and stop.• Allow vehicles to pass.• Activate left turn signal.• Resume position on road and continue run. <p>NOTES:</p>

OVERTAKING AND PASSING

NOTES	CONTENT
	<p>Usually, you won't have to overtake and pass other vehicles. But, when it's necessary, follow these steps.</p> <ol style="list-style-type: none">1. Using rearview mirrors check that the traffic following the bus is clear for passing.2. On a two lane road check that there is no on-coming traffic and check traffic signs and markings to determine if passing is allowed.3. Activate the left turn signal <u>well in advance</u> of passing.4. When clear, pull smoothly into passing lane.5. Deactivate left turn signal.6. Move smoothly past the vehicle at a safe speed, increasing speed of bus if necessary.7. Activate right turn signal.8. Move back into right lane when at least 1-1/2 bus lengths ahead of passed vehicle.9. Deactivate right turn signal.10. Maintain safe speed. <p>EXTRA CAUTION: Signal your intention to pass-- to the lead vehicle--by flicking headlights at night, or by sounding the horn:</p> <ol style="list-style-type: none">1. When the lead vehicle's vision to the rear is obscured by a trailer, open trunk lid, ice or snow on the rear window, or objects in the rear window.

NOTES	CONTENT
	<p>2. When the lead vehicle is about to pull out and pass.</p> <p>3. When the lead vehicle moves laterally toward the bus.</p> <p>4. When the driver of the lead vehicle appears inattentive.</p> <p><u>DO NOT</u> PASS if the lead vehicle is:</p> <ol style="list-style-type: none"> 1. Signalling or otherwise indicating a left turn. 2. Changing lanes preparatory to passing. 3. Weaving or wandering. <p style="padding-left: 40px;">In this case, you may sound the horn or flash the headlights to alert the driver of the lead vehicle, and if the weaving does not cease, wait until you can pass with at least one-half lane separation.</p> <ol style="list-style-type: none"> 4. Decelerating suddenly. 5. Passing children, cyclists or animals. 6. Being passed by another vehicle. <p style="padding-left: 40px;">In this case, wait until the lead vehicle has been passed, your view of the road ahead is clear, and an acceptable gap is present.</p> <p>NOTES:</p>

SECURING THE BUS

NOTES	CONTENT
	<p>You must be able to secure the bus so that it will remain stationary and as well protected from unauthorized use as possible. Follow these steps:</p> <ol style="list-style-type: none">1. Set the hand brake.2. Shift to a low gear.3. Check instrument for normal readings.4. Turn off ignition and remove key.5. Upon leaving bus, secure door. <p>NOTES:</p>

SCHOOL BUS DRIVING MANEUVER	SPECIFIC PROVISIONS OF STATE LAW	SPECIFIC PROVISIONS OF LOCAL POLICY
1. GETTING READY TO DRIVE		
2. STARTING ENGINE		
3. SHIFTING (including Double Clutching and Shifting Automatic Trans- mission		
4. STEERING AND TURNING (including Right Turns, Left Turns, and Turnabouts)		
5. STOPPING AND PARKING		
6. RAILROAD CROSSINGS		

Figure 4. Laws and Policies on Driving Maneuvers

SCHOOL BUS DRIVING MANEUVER	SPECIFIC PROVISIONS OF STATE LAW	SPECIFIC PROVISIONS OF LOCAL POLICY
7. BACKING IN A STRAIGHT LINE		
8. STARTING/STOPPING ON HILL		
9. ENTERING FLOW OF TRAFFIC (including crossing inter- sections		
10. ADJUSTING SPEED OF BUS		
11. LANE USE/POSITION ON ROAD		
12. BEING OVERTAKEN AND PASSED		

Figure 4. (continued)

SCHOOL BUS DRIVING MANEUVER	SPECIFIC PROVISIONS OF STATE LAW	SPECIFIC PROVISIONS OF LOCAL POLICY
13. OVERTAKING AND PASSING		
14. SECURING THE BUS		
15. OTHER		

Figure 4. (continued)

NOTES	CONTENT
	<p>Discussion Questions on Driving Maneuvers:</p>

IN-BUS PRACTICE

NOTES	CONTENT
	<p>Now you're ready to try your hand at practicing driving maneuvers in the bus. Your instructor will explain the practice course and the plans for this behind-the-wheel demonstration and practice.</p> <p>NOTES:</p>

NOTES	CONTENT
	<p data-bbox="559 274 981 304">DIAGRAM OF PRACTICE COURSE:</p>

NOTES	CONTENT
	<p>You will each take a turn behind the wheel; others will observe and compare the "trainee's" performance with the instructor's demonstration. You will use checklists to evaluate. See Unit Review Questions, Part 2. Feedback will be a natural part of some maneuvers: e.g., if you scrape a marker, you know immediately that your steering was inappropriate. But, your instructor will critique each performance, pointing out specific actions that were right, marginal or wrong. Each one of you has 2 "trials" to perform most maneuvers correctly. On the first trial, the instructor can comment as you go along; on the second trial, you should perform without assistance.</p>

CORE UNIT E
REVIEW QUESTIONS--PART 1

Check whether these statements are mostly T or mostly F:

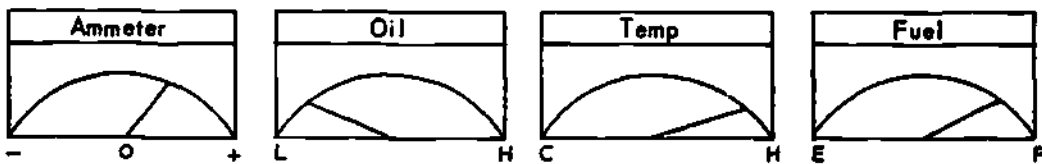
- | | |
|--|--------------------|
| 1. You should always unload your students before backing your bus to turn around. | T _____
F _____ |
| 2. Backing should never be done unless it is absolutely necessary and should be done with extreme caution. | T _____
F _____ |
| 3. You may cross railroad tracks with your front door open to gain better visibility. | T _____
F _____ |
| 4. Staying within the posted speed limits is your only concern in adjusting the speed of the bus for urban, rural, residential or highway driving. | T _____
F _____ |
| 5. In general, you should drive in the right lane, except when you need to make a left turn. | T _____
F _____ |

Choose the best answer:

6. A bus driver who cuts the corner too closely when making a right turn, causing his wheels to go over the curb, is probably:
- ___ (a) unaware that he's doing it
 - ___ (b) a poor judge of distance in other situations, too
 - ___ (c) deliberately trying to save time
 - ___ (d) a safe driver in other ways
7. You are stopped in a line of traffic headed uphill, waiting for the light to change. You should keep the bus positioned by:
- ___ (a) keeping your foot on the brake
 - ___ (b) slipping the clutch
 - ___ (c) putting the bus in low gear
 - ___ (d) setting the parking brake

8. What must a driver do before entering a street from an alley, private road or driveway?
- (a) slow down and proceed with caution into the flow of traffic
 - (b) stop, yield right of way if there is a stop sign
 - (c) stop, yield right of way whether or not there is a stop sign
 - (d) stop, yield right of way only if there are stop and yield signs
9. Getting a speeding ticket is:
- (a) not anything to worry about
 - (b) unavoidable once in a while
 - (c) something to be really concerned about
 - (d) a serious crime
10. When passing another vehicle on the road, you should:
- (a) signal, then pull out 3 or 4 bus lengths from the bus ahead
 - (b) signal, then pull out just as you come behind the vehicle ahead
 - (c) signal for the pass as you pull out
 - (d) accelerate, and pull out quickly for the pass
11. When turning at crowded intersections, you should:
- (a) try to move very carefully through the flow of pedestrians
 - (b) try to move through wherever there is a gap in the flow of pedestrians
 - (c) wait until there are no pedestrians actually in the intersection
 - (d) wait until there are no more pedestrians waiting to cross

12. When the instruments look like this:



You should:

- (a) get gas and check the oil level
- (b) check the fan belt
- (c) check the oil level and cooling system
- (d) have the electrical system checked
- (e) be glad all readings are good

13. What is the maximum speed for school buses in your state?

14. State a rule for determining safe following distance on the highway.

15. Why should you use a reduced gear while traveling down a steep grade?

**CORE UNIT E
REVIEW QUESTIONS--PART 2**

Checklists for In-Bus Driving Maneuvers and Road Test*

County: _____ Date: _____

Examiner's Name: _____

Driver's Name: _____

Time: From _____ To _____

Instructions

Evaluate the performance of the driver for each item within all categories to be tested. Place a check (✓) in either the P (Pass) or F (Fail) column each time an item is observed.

If there is more than one Pass-Fail column for a category, evaluate the items as many times as are indicated whenever possible. The Pass or Fail spaces should be left blank *only* if the task described does not occur during the road test.

INITIAL START	Time 1		Time 2	
	P	F	P	F
Inserts key in ignition				
Positions or checks seat and mirrors, fastens lap belt				
Checks gear position, puts in N or P				
Disengages clutch				
Starts engine - Pushes button or turns key, releases button, uses choke properly				
Warms up engine without racing				
Checks instruments				
Observes conditions - traffic				
Releases holding brake				
Signals intent to pull out				
Waits if necessary				
Engages starting gear				
Drives about 50' - stops to check brakes				
Accelerates smoothly into traffic lane				
Moves to proper following distance proper speed				

LEFT TURN	Time 1		Time 2		Time 3	
	P	F	P	F	P	F
Observes conditions - A, B, traffic and pedestrians						
Activates left turn signal, moves to left turn lane at safe distance from turn						
Re-activates left turn signal at not less than 100' from turn						
Reduces speed to safe level						
Observes conditions - A, B, L-R-L, traffic, pedestrians; stops if necessary						
Obeys traffic signs, signals, officers						
Turns when there is clearance in lane he will enter						
Turns smoothly, at safe speed, into correct lane of side street, clearing center line and other obstacles						
Deactivates left turn signal						
Observes conditions - A, B, traffic						
Activates right turn signal						
Moves to furthest right traffic lane						
Deactivates right turn signal						
Maintains proper following distance						

NOTE: A = Ahead; B = Behind; R = Right; L = Left

* From NHTSA Task Description (14)

RIGHT TURN	Time 1		Time 2		Time 3	
	P	F	P	F	P	F
Observes conditions - A, B, traffic and pedestrian						
Activates right turn signal, moves to right turn lane at safe distance from turn						
Activates right turn signal at not less than 100' before turn						
Reduces speed to safe level						
Observes conditions - A, B, L-R-L, traffic, pedestrians; stops if necessary						
Obeys traffic signs, signals, and officers						
Turns when there is clearance in lane he will enter						
Turns smoothly, at safe speed, as far to left of side street as necessary to clear obstacles						
Returns to right traffic lane immediately						
Deactivates right turn signal						
Maintains proper following distance						

OVERTAKING AND PASSING ANOTHER VEHICLE	Time 1		Time 2	
	P	F	P	F
Takes initiative only under safe conditions				
Maintains proper following distance				
Observes conditions - A, B, traffic and road signs and markings				
Activates left turn signal				
When clear, pulls smoothly into passing lane				
Deactivates turn signal				
Moves smoothly past the vehicle at a safe speed				
Activates right turn signal				
When at least 1 1/2 bus lengths ahead of passed vehicle, moves back into right lane				
Deactivates right turn signal				
Maintains proper following distance				
Maintains safe speed				

RAILROAD CROSSINGS	Time 1	
	P	F
Stops the bus approximately 15 feet from the crossing		
Turns off noisy motors and fans		
Opens bus door		
Looks L-R-L, listens for at least 5 seconds		
Closes bus door, shifts to a low gear		
Observes conditions - A, B, L-R-L, for clearance on other side of tracks, train, traffic		
When safe, proceeds across tracks without shifting		
Double track, train passing on near side: driver waits for 15 seconds before crossing tracks		

BEING PASSED BY ANOTHER VEHICLE	Time 1		Time 2	
	P	F	P	F
Maintains proper following distance				
Observes conditions - A, B, traffic, vehicle preparing to pass				
Checks clearance on left side				
Maintains safe speed				
Observes conditions - A, B.				
Adjusts following distance				

HILLS	Ascending				Descending			
	Time 1		Time 2		Time 1		Time 2	
	P	F	P	F	P	F	P	F
A. Stopping and Starting Maintain proper following distance								
Applies brakes as needed								
Observes conditions - A, B, traffic								
Comes to full stop, at safe distance from vehicle or intersection ahead								
Shifts to N, holding bus on foot brake only								
Observes conditions, A, B, L-R-L								
Shifts to a low gear								
Releases clutch to engage engine and accelerates without rolling back								
Releases foot brake and slowly accelerates								
Maintain proper following distance								
B. Shifting, Accelerating, Decelerating Checks brakes before beginning ascent or descent								
Shifts to a low gear								
Maintains safe speed								
Uses brakes as needed								
Does not shift while on Hill								

INTERSECTIONS/STRAIGHTAWAYS	Time 1		Time 2		Time 3	
	P	F	P	F	P	F
Approaches intersections at safe speed						
Maintains proper following distance						
Observes conditions - A, B, L-R-L, traffic and pedestrians						
Yields right-of-way to pedestrians						
Obeys traffic signs, lights, or officers						
Stops completely at rural and blind intersections						
Before starting from stop, observes conditions A, B, L-R-L						
Crosses intersection at safe speed, staying in lane						
Does not cross until there is clearance on other side of the intersection						

TURN AROUND USING BACKING (Bus in furthest right lane)	Time 1	
	P	F
Activates right turn signal		
Maintain slow speed		
Observes conditions - A, B, L-R-L, traffic, pedestrians		
Slowly drives past turn around area, stops		
Signals other drivers of intention to back, waits for clearance		
Observes conditions		
Backs slowly into turn around area, using mirrors		
Stops, observes conditions		
Signals intention to re-enter roadway		
When clear, re-enters road in right lane		
Maintains proper following distance		
Maintains safe speed		

CURVES	Time 1	
	P	F
Maintains proper following distance		
Observes conditions - A, B, traffic roadway		
Decelerates before curve, downshifts if necessary		
Maintains safe speed through curve, accelerating slightly		
Maintains correct position in lane		

BACKING/STRAIGHT	Time 1	
	P	F
Stops bus in correct position to back		
Using mirrors, checks that way is clear to back		
Puts transmission in reverse		
Using mirrors, backs slowly and smoothly in a straight line		
Stops at desired point without hitting markers		

SECURING THE BUS	Time 1		Time 2	
	P	F	P	F
Set parking brake				
Shift to a low gear				
Check instruments				
Turn off engine and remove key				
Upon leaving bus, secure door				

ANSWERS TO REVIEW QUESTIONS

CORE UNITS A-E

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CORE UNIT A
ANSWERS TO REVIEW QUESTIONS--PART 2

1. When bus is being operated upon a highway other than for the transportation of school children.
2. When they have a copy of a lease or contract in their possession.
3. Federal Motor Vehicle Safety Standard 108 requires that school buses have at least a system of four red flashing warning lamps. Some states require an eight light system--four amber flashing lamps and four red flashing lamps.
4. To establish fitness and competency to operate a school bus with safety, and to assess his knowledge of the laws and regulations relating to the operation of a school bus.
5. (Will vary with state.)
6. (Minimum age will vary with state; maximum age is 65.)
7. Any four from page 10.
8. Any four from page 10 and 11.
9. Any four from page 11 and 12.
10. Any two from page 12.
11. Any four from page 13.
12. Any four from page 15 through 17.
13. Police record; driving record.
14. Any listed in Figure 4, page 26 and 27.
15. Poor driving record; disobeying laws, school policy; questionable moral behavior, chronic health problems, etc.

PERFORMANCE CRITERION: 9 out of 15 correct

CORE UNIT B
ANSWERS TO REVIEW QUESTIONS--PART 1

1. False
2. True
3. False
4. False
5. True
6. False
7. True
8. False
9. False
10. True
11. True
12. False
13. True
14. True
15. True

PERFORMANCE CRITERION: 13 out of 15 correct

CORE UNIT B
ANSWERS TO REVIEW QUESTIONS--PART 2

PERFORMANCE CRITERION:

Responses must be similar to procedures in manual and must conform to state and local regulations and at least two other students and instructor must confirm.

CORE UNIT B
ANSWERS TO REVIEW QUESTIONS--PART 3

NOTE: These are just sample answers. Make sure the answers you accept conform to state and local regulations.

I would:

1. Ask him to stop eating.
2. Not let him off unless he or she had written permission.
3. Ask him to converse in normal tones if it interferes with your driving.
4. Comment to him (them) on their good behavior; thank them.
5. Ask them to be seated; stop bus if request is defied.
6. Ask them to "extinguish all smoking materials"; stop bus if request is defied.
7. Wait for him, unless I'd already entered the flow of traffic.
8. Ask her to leave the dog outside; not let her enter the bus if request is defied.
9. Request that any snowballs be dropped (not thrown) out window and windows be closed, if necessary. Stop the bus if necessary.
10. If using sharp compass, etc., ask him to wait. If reading, allow him to continue and praise him for good behavior.

PERFORMANCE CRITERION:

6 of the 10 answers must conform to state and local regulations/policies.

CORE UNIT B
ANSWERS TO REVIEW QUESTIONS---PART 4

<u>DISORDER</u>	<u>PROCEDURE</u>
a. Actual fist fight between students.	a. As quickly as possible, find a turnoff or berm on which you can safely park the bus. Turn on only the hazard lights, <u>not</u> the red flashing warning signals. Secure the bus, turn off the engine and take the keys. (Include <u>local policy</u> on how to proceed.)
b. Collapse of one or more students due to illness, drugs or alcohol.	b. (same as above)
c. Small fire, explosion, or similar acts of vandalism.	c. (same as above)

CORE UNIT B
ANSWERS TO REVIEW QUESTIONS--PART 5

Answers must be similar to the following, as they conform to state and local laws:

1. Examples of conduct problems--repeated infraction of bus conduct rules, frequent disruption of schedule through lateness, actual/probable vandalism.
2. Reasons for the reporting procedures, such as: (a) keeps students aware of your authority, (b) provides administration with written basis for disciplinary action, (c) makes parents aware of child's behavior, (d) help to change student's behavior.
3. Specific names, titles of local contacts to report particular conduct problems to.
4. Local regulations--as indicated by school board regarding length of suspension, e.g., one day for repeated misconduct, one week for lateness, two weeks or one month for vandalism, etc.

PERFORMANCE CRITERION: 3 out of the 4 questions correct.

CORE UNIT C
ANSWERS TO REVIEW QUESTIONS---PART 1

1. Will vary according to state requirement. Recommended for any accident involving personal injury or vehicle/property damage apparently in excess of \$100.00.
2. Will vary. Answers may include flags, flares, fusees, reflectors, fire extinguisher, fire axe or wrecking bar, first aid kit.
3. Will vary. Usually, two per year during first week of school and in the spring; on the school grounds.
4. At the base of the flame; a side to side sweeping motion; hold extinguisher in an upright position.
5. School bus driver error over 50 percent of the time.
6. During loading and unloading on a roadway.
7. Reduced visibility; possibly reduced depth perception, acuity, etc.
8. Brake failure.
9. Conduct (or care).
10. Negligence.
11. Higher.
12. Any 2 of the following: Fire or danger of fire, danger of drowning, danger of collision (unsafe position where bus could move further).
13. You might make an admission of fault that further analysis reveals to be incorrect; possibility of conflicting testimony.
14. Will vary. Must conform to local policy.
15. Type B, Type A, Type C.

PERFORMANCE CRITERION: 11 out of 15 correct

CORE UNIT C
ANSWERS TO REVIEW QUESTIONS--PART 2

Demonstrations should be performed "live." Other answers may be oral or written.

1. PERFORMANCE CRITERION: Without error or omission, demonstrations and oral descriptions must satisfy instructor.
2. PERFORMANCE CRITERION: Must conform to relevant procedures in this unit.
3. PERFORMANCE CRITERION: Must conform to procedure for particular type extinguisher; fire must be extinguished.

CORE UNIT D
ANSWERS TO REVIEW QUESTIONS

1. Outside
2. Don't drive. Report condition to your supervisor or mechanic.
3. Thump the tires with a heavy, blunt tool.
4. Pools of water; slippery steps.
- 5-7. Any three from page Core D-5, or as otherwise specified by instructor.
- 8-10. Any three from pages Core D-5 & Core D-6, or as otherwise specified by instructor.

PERFORMANCE CRITERION: 7 out of 10 correct

CORE UNIT E
ANSWERS TO REVIEW QUESTIONS--PART 1

1. False
2. True
3. False
4. False
5. True
6. b
7. a
9. c
9. c
10. a
11. c
12. c
13. Will vary
14. One bus length for every 10 mph or 4 seconds timed interval behind vehicle ahead.
15. Better control of bus; engine acts as brake to slow bus; conserve tires and brakes.

PERFORMANCE CRITERION: 12 out of 15 correct

CORE UNIT REFERENCES

1. Arizona Highway Department, Traffic Safety Division. School bus drivers' check list. Author. January 1971.
2. California State Department of Education. Manual for California's school bus driver instructor course. Author. Sacramento, California. 1972.
3. Employers-Commercial Union Companies. What distance does it take to stop?" Author. Washington, D. C.
4. Hall, R. W., et al. Statistical summary of school bus accident data - Volume I. Southwest Research Institute. 1968.
5. Iowa Department of Public Instruction. School bus drivers handbook. Author. Des Moines, Iowa. 1972.
6. Iowa Department of Public Instruction. Training and supervision of the school bus driver. Des Moines, Iowa.
7. Michigan Program for School Bus Driver Safety Education. The Michigan school bus driver's manual. A guide for professional school bus drivers. Author. 1972.
8. Mississippi Department of Education. Mississippi pupil transportation handbook. Author. Jackson, Mississippi. April 1973.
9. National Education Association. Standards for school bus operation. Author. Washington, D. C. 1970.
10. National Education Association. Study of school bus safety. Author. Washington, D. C. December 1967. PB 177-905. Appendix p. 290.
11. National Highway Traffic Safety Administration. Driver education curriculum. Author. Washington, D. C.
12. National Highway Traffic Safety Administration. Highway safety program manual, volume 17, pupil transportation safety. Author. Washington, D. C. February 1973.
13. National Highway Traffic Safety Administration. Highway safety program standard 17. Author. Washington, D. C. May 1972.
14. National Highway Traffic Safety Administration. The selection and training of school bus drivers. Author. Washington, D. C. February 1971.
15. Ohio Trade and Industrial Education Service, Division of Vocational Education, State Department of Education. School bus driver education. Basic course learner's manual. Author. Columbus, Ohio. 1972.

16. Oregon State Department of Education. Oregon school bus drivers manual.
Author. Salem, Oregon. 1971.
17. Oregon State Department of Education. School bus driver training, basic
course learner's manual. Author. Salem, Oregon. May 1968.
18. University of the State of New York. State Education Department. Manual
for the instruction of school bus drivers of the State of New York.
Author. Albany, New York. 1963.

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