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**IDENTIFIERS** California Achievement Tests; Wiener Attitude Scale

**ABSTRACT** Goals of a model program for seven gifted students in a small rural high school in Baldwyn, Mississippi, were to improve teacher knowledge of gifted programs and increase student knowledge and skills through a mentor program and individual projects. Innovative aspects of the program during 1981-82 were inservice training to aid teachers in working individually with gifted students, a mentor program for students to work part-time in the community under specialists in their areas of interest, and a computer for direct instruction of students and for programming individual study projects. A related component was a special art program for artistically talented students. Results were assessed with the Wiener Attitude Scale (to determine teacher attitude), the California Achievement Test (CAT--to measure student achievement in reading, math, language and spelling), teacher/mentor questionnaires (to measure knowledge/skills acquired by students), and individual evaluations of participating students. Pre- and post-tests indicated general teacher satisfaction with the program; no significant student gain in CAT scores; notable individual student gains on specific area tests (computer programming, typing, German, brain dominance, sculpture, racing cars) developed by the mentors/advisors; and more enthusiasm about the program from mentors/advisors than from teachers. (MH)

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ED233847

**POST-EVALUATION DESIGN**

**1981-82**

**A GIFTED MODEL DESIGNED FOR GIFTED STUDENTS IN A SMALL,  
RURAL HIGH SCHOOL**

**BALDWYN SEPARATE SCHOOL DISTRICT**

**BALDWYN, MISSISSIPPI**

**TITLE IV, C**

RC014277

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## INTRODUCTION

The target group for the project was secondary gifted students. The project continued to develop a model program for gifted students in a small, rural high school during the 1981-82 school year. The innovative aspects of this program were three-fold: First, the project continued to train teachers through an inservice to work individually with students eligible for the gifted program. The resource teacher for the gifted worked with regular teachers on a volunteer basis to obtain their participation in designing individualized programs for selected students. These teachers helped supervise students in the completion of individual projects in the area of their interests. Secondly, the program developed a "Mentor Approach" whereby students were able to work part-time in the community under a specialist or expert in the area of their interests. These specialists were drawn from the areas of business, law, medicine, education, and other professional groups. Thirdly, the program utilized a TRS-80 Radio Shack computer for the direct instruction of students as well as supplemental option for those desiring to "program" their individual study project.

A related component added was a special art program for

"artistically talented" under the guidelines of the State Department of Education. This program served approximately twenty students at the high school level. A teacher unit was funded under the minimum foundation program for this component.

A project goal was to improve positively teacher knowledge toward gifted programs. Secondly, it was hoped that student's knowledge and skills in selected areas would increase as a result of the mentor program and individual projects.

**A. Problem**

**A. Statement of the Problem**

**Will teacher attitudes/knowledge and students' skill and knowledge in selected areas increase or improve as a result of participation in a gifted program?**

**B. Questions to be Answered**

- 1. Will teacher knowledge toward gifted programs improve as measured by pre/post administration of the Wiener Attitude Scale?**
- 2. Did the experimental group show significant improvement on the California Achievement Test (CAT) as compared to the control group?**
- 3. Will students' knowledge and skill in selected areas with mentors and/or regular teachers improve as measured by a pre/post questionnaire developed for their specified area?**
- 4. Did students select vocational and/or academic careers based on experiences received in the gifted program?**
- 5. Did the artistically talented students have a positive attitude toward the program?**

**C. Rationale**

It is recognized that much of the needed help and attention that gifted students deserve could be arranged by their regular teachers if provided the necessary materials and inservice training. An enrichment/tutorial program utilizing regular teachers and/or mentors from the community would be less costly than providing teachers in that area of the curriculum not presently offered in the Baldwin Schools.

**D. Assumptions**

It was assumed that the Wiener Attitude Scale measures teacher attitudes toward gifted students and programs.

It was assumed that the CAT measures academic achievement in the areas of reading, math, language, and spelling.

It was assumed that the teacher/mentor questionnaires measure the knowledge and skills acquired by the students completing research projects and other activities.

It was assumed that the questionnaire for the art students measures the attitudes and feelings about their participation in the program.

**B. Limitations**

The experimental and control groups were not randomly selected, but were chosen as a result of meeting specified criteria.

As a result of late identification and screening, as well as scheduling conflicts, not all experimental students spent equal time on independent projects with regular teachers or working with mentors.

The number of subjects in both comparison groups varied due to program withdrawal, transferral to another district, or other reasons.

The CAT was not administered to all subjects on the same date. Approximately one month separated the groups in the data collection.

Teacher qualifications, along with teaching styles, curricula used, scheduling and program activities differed between the two programs.



**F. Definition of Terms**

**Gifted and Talented - Children and, whenever, applicable, youth who are identified at the preschool, elementary, or secondary level as possessing demonstrated or potential abilities that give evidence of high performance capability in areas such as intellectual, creative, specific academic, or leadership ability, or in the performing and visual arts, and who, by reason thereof, require services or activities not ordinarily provided by the school.**

**Resource Teacher for Gifted - A teacher who is a specialist in the education of gifted/talented students. She is endorsed in the gifted area and conducts evaluations, develops effective teaching strategies, and works with colleagues as well as directly with pupils.**

**Mentor - An individual from the school or community who provides expertise in his/her career or vocational area.**

**Significant gains in achievement - For the purpose of this study a significant difference will be accepted at the .05 level.**

**Artistically Talented - Refers to those students who have demonstrated or indicated through affective as well as cognitive performance, outstanding ability in art.**

## **II. Program Procedures**

### **A. Subjects**

The experimental subjects represent seven secondary academically gifted students at Baldwin High School. Initially, the group consisted of thirteen students. Six students had scheduling conflicts that prevented their remaining in the TAG Program. The program continued its efforts to identify eligible students. These students came from grades nine through twelve and were selected by the following criteria:

#### **I. Procure referrals through:**

- A. Teacher recommendation**
- B. Inspection of year-end group achievement and/or intelligence scores**
- C. Referrals from principals, counselors, parents or peers**

**II. Screening through the obtainment of the following information:**

- A. Renzulli-Hartmen Scale for Rating Behavioral Characteristics of Superior Students completed by teacher making initial referral.**
- B. Permission for testing acquired from parent or guardian.**
- C. Scores from California Achievement Test and Wide Range Achievement Test or Peabody Individual Achievement Test. Scores should reflect student functioning at one grade level above placement in one or more subject areas.**
- D. Group Intelligence Scores, if available - Short Form Test of Academic Aptitude.**
- E. Grades for the past two years.**
- F. Wechsler Intelligence Scale for Children - Revised, Wechsler Adult Intelligence Scale, or Stanford-Binet Scores. The student must score 120 or above on Verbal, Performance and/or Full Scale scores.**
- G. Evidence of regular classroom work indicating outstanding performances prior to the school year. The resource teacher and/or project**

director will meet with each eligible student and his/her parents and thoroughly explain the various components of the program. Depending on the student's interest, an individual program will be drawn-up and a daily/weekly schedule will indicate the specific activities for that student. Each student will meet five hours per week with the resource teacher. The resource teacher will be responsible for monitoring each student's schedule, initiating changes, working with regular teachers and mentors, and arranging for individual projects.

### III. Placement in the Program

- A. All qualifying data reviewed by the local Survey Committee
- B. All data sent to the Regional Screening Team for final approval of placement
- C. Parents and students notified of placement decision
- D. Parents sign statement that they understand that their child will participate in the program as long as the school and/or they feel that he/she is benefiting from the program and he/she is a motivated, contributing member

- E. Year-end evaluation by the Local Survey Committee to review grades for the past year and discuss placement for the program for the following year.

The control group was located at Nettleton High School in nearby Lee County. An equal number of control students was selected to be a comparison group for the project. Since Nettleton High School has no secondary gifted program, the control students were selected on the basis of a national score at the 85th percentile or better on the Short Form Test of Academic Aptitude.

The Artistically talented subjects represented sixteen secondary students at Baldwyn High School. During the 1980-81 school year, thirty students were enrolled in the program. However, due to scheduling conflicts, lack of student interest, and competing interests, the number decreased for the 81-82 school year. The program continued its effort to identify eligible students. Those enrolled came from grades nine through twelve and were selected by the following criteria:

- I. Initial nominations through:
  - A. Teacher referrals and recommendations
  - B. Referrals from principals, counselors, or parents

- C. Peer referrals
- D. Self referrals

**II. Screening through the obtainment of the following information:**

- A. Permission for testing obtained from parent or guardian
- B. Teacher recommendations using characteristics of the artistically talented from Renzulli-Hartman Scale for Rating Behavioral Characteristics of Superior Students
- C. Three separate auditions in which the pupil has been observed to have aptitude in art
- D. Evidence of superior performance within the auditioning period to be determined by an expert in the area

**III. Placement in the Program**

- A. All qualifying data reviewed by the Local Survey Committee.
- B. All data sent to the Regional Screening Team for final approval of placement
- C. Parents sign a statement informing them of yearly re-assessment procedures. Parents will be notified

if there is any change in status occurring as a result of motivational factors and contributions toward the betterment of the class.

**B. Treatment**

Regular classroom teachers received inservice training to assist them in designing relevant education experiences and unique teaching strategies for eligible students.

The experimental group received a minimum of five hours per week instruction in the resource room. Each student completed an independent project in his/her chosen area. In order to lead the students to more specific, detailed thinking each appeared before a teacher committee to receive approval of the topic. The committee listened to each student's ideas and plans, offered suggestions, and granted approval or disapproval of project plans. Areas that were selected were brain dominance, computer programming, German, racing cars, sculpture, and typing. Students worked closely with an advisor and the resource teacher. Students worked closely with an advisor and the

resource teacher. Students also worked out in the field directly with a mentor. The amount of time spent with the mentor was dependent on the students' and mentors' schedule. (See Appendix A for Independent Project Outline). In addition, students received enrichment activities in the resource room.

The control group received the pre/post CAT only. Since Nettleton High School has no formal secondary gifted program, the control students attended the regular academic program. No special enrichment activities were provided them during the school year.

The artistically talented students received a minimum of five hours per week instruction in the resource room. Students received instruction in art history and appreciation as well as individual work on art projects. (See Appendix B for outline of anticipated projects.)

### III. Evaluation

#### A. Instruments to be Used



The following instruments were used in the collection of data: Wiener Attitude Scale and the California Achievement Test. The Wiener Scale was developed by Dr. Jean Wiener at UCLA as a means of determining staff attitudes toward the gifted. The scale consists of twenty-eight items in which the respondent is asked to select a response on the basis of agreement or disagreement on specified statements. (See Appendix C)

The California Achievement Test is a widely used instrument throughout the nation. The form appropriate for high school students was selected which measures knowledge and understandings in reading, math, language, and spelling. The test consists of national norms and can be scored objectively. Additionally, a series of checklists/questionnaires were devised which measure the students' knowledge and skill in their selected area with a regular teacher and/or mentor. These checklists were devised by the mentors, regular teachers, and resource teacher and were used on a pre/post basis. (See Appendix D)

Another project objective to receive evaluation was an end-of-year assessment of the regular teachers' and mentors' attitudes/opinions toward Baldwyn's gifted program and the various options available to students. (See Appendix E)

A final evaluation consisted of an individual case study completed by the resource teacher on each student in the experimental group. (See Appendix F) Follow-up information has been maintained on each student on a yearly basis. (See Appendix G)

A new form of evaluation added this year was an end-of-year assessment of the artistically talented students' attitudes and feelings about their participation in the program. (See Appendix H).

#### **B. Procedures for Collecting Data**

The following schedule outlines the collection of pretest data:

Meiner Attitude Scale	-	September, 1981
California Achievement Test	-	April/May, 1981
Student Checklists/Questionnaires	-	October, 1981

The Wiener Attitude Scale was administered by the project director during an inservice training session.

The CAT scores for both experimental and control groups were obtained through information on cumulative folders and testing where the CAT had not been previously administered.

The student checklists/questionnaires were administered by the resource teacher prior to initiation of research on their independent projects. These same questionnaires were readministered in May, 1982.

The project director and resource teacher administered a questionnaire sampling the opinions of regular teachers and administrators toward the operation of the Baldwyn gifted program. This questionnaire was distributed and analyzed in May, 1982.

The resource teacher collected data throughout the school year and maintained records on each student. These case studies include information such as

the following: program option chosen by the student, types and areas of research studies conducted, activities and experiences participated in with mentors, and knowledge and skills obtained through research and mentor experiences.

The project director and teacher of the artistically talented administered the questionnaire regarding this aspect of the program. This questionnaire was distributed and analyzed in May, 1982.

### C. Analysis of Data

A one group pretest-post-test design was used in analyzing results from the Wiener Scale. This design looks as follows:

	Pre-Test	Treatment Program Participation	Post-Test
Regular Teachers	T <sub>1</sub>	X	T <sub>2</sub>

A correlated *t* test comparing mean scores was used to determine if any significant change occurred in teacher attitudes. A nonrandomized control-group pretest-post-test design was used to analyze differences in CAT scores between the experimental

and control groups. This design looks as follows:

	Pretest	Treatment	Post-Test
Experimental Group	T <sub>1</sub>	X	T <sub>2</sub>
Control Group	T <sub>1</sub>		T <sub>2</sub>

A t test was used to determine if significant differences in achievement occurred between the two groups. The .05 level of significance was used.

The analysis of the student checklists/questionnaires on knowledge and skills was made by the project director and resource teacher at the end of the school year. The percentage correct from pretest to post-test was calculated for each student and added to the case study information collected by the resource teacher. These data are illustrated in table form. The end-of-year program evaluation on teacher and mentor attitudes/opinions and the questionnaire for art students were analyzed. Teachers, mentors, and students were asked to respond to what extent they agree or disagree with various aspects of the program. (See Appendix I for all raw scores collected during the 1981-82 school year.)

The following tables present the data collected during the second year of the project.

**TABLE I**  
**PRE AND POST MEAN SCORES ON THE WIENER**  
**ATTITUDE SCALE (N=20 Teachers)**  
**(1961-62)**

<u>PRETEST MEAN</u>	<u>POST-TEST MEAN</u>
16.2	6.3

On the pretest fifteen of twenty teachers indicated a positive opinion toward gifted education. Five teachers indicated a somewhat negative outlook. On the post-test given nine months later, their attitude had shifted so that only thirteen teachers showed a positive attitude, two teachers were neutral and five remained negative. A general satisfaction with the program even though the Wiener Scale was not sensitive enough to reflect these attitudes.

Table Two shows a comparison of the total CAT scores for both groups. It should be pointed out that different forms of the CAT were used for the pre

and post tests. This occurred because of changes required at the State level. As a result, the percentage correct was calculated for each subtest (pre and post) and statistical analyses run on the difference between the percentage correct.

TABLE II

PRE AND POST MEAN SCORES ON THE CALIFORNIA  
ACHIEVEMENT TEST (Total Battery)  
(1981-82)

	<u>N</u>	<u>Pretest</u>	<u>Standard Deviation</u>	<u>Post-Test</u>	<u>Standard Deviation</u>	<u>F</u> <sup>*</sup>
Experimental Group	7	81.20	9.46	80.71	8.96	0.287
Control Group	7	76.73	7.53	79.94	8.87	0.008**

\*t values represent actual two-tailed probabilities obtained from the analysis.

\*\*Significant loss beyond the .05 level.

The pre-post analysis on the total CAT Battery failed to reach statistical significance for the experimental group. The pre-post analysis showed a significant loss beyond the .05 level for the control group. Even though the experimental group scored higher than the control group on both the pre and post tests, the

small sample size reduced the magnitude of this difference.

Table Three presents the data on each CAT subtest from the post-tests given in the Spring, 1982. An analysis of covariance was run on each subtest post-test which statistically accounts for the magnitude of gain made for each group, since they were unequal at the start.

**TABLE III**  
**RESULTS OF ANALYSIS OF COVARIANCE ON CALIFORNIA**  
**ACHIEVEMENT POST-TEST SCORES**  
**BETWEEN EXPERIMENTAL AND CONTROL GROUPS**  
**(1981-82)**

	<u>EXPERIMENTAL GROUP</u>		<u>CONTROL GROUP</u>		<u>Calculated F*</u>	<u>Sign. of F</u>
	<u>Actual Mean Values</u>	<u>Adjusted Mean Values</u>	<u>Actual Mean Values</u>	<u>Adjusted Mean Values</u>		
Reading	58.37	55.11	58.86	59.31	2.66	0.13
Math	62.86	66.11	60.14	61.89	0.03	0.86
Language	56.57	51.54	59.57	52.60	1.39	0.29
Spelling	14.14	14.09	11.29	11.33	3.59	0.09
Total Battery	192.14	185.34	168.86	175.66	2.04	0.18



\*An F value of 4.81 is needed for significance at the .05 level.

The CAT results in Table Three show the magnitude of difference between the two groups on the post-tests. None of these analysis reached a significance, although the area of spelling approached a significance at the .09 level.

Table Four presents the scores achieved by each student on the specific area tests developed by the mentors/advisors. Each student made a notable gain on the post-test with one scoring 100 percent.

TABLE IV  
PERCENTAGE CORRECT ON SELECTED AREA  
TESTS PROVIDED BY MENTORS/ADVISORS  
(1981-82)

<u>Student</u>	<u>Area</u>	<u>Pretest</u>	<u>Post-Test</u>
1	Computer Programming	26%	89%
2	Typing	45%	100%
3	German	10%	82%
4	Brain Dominance	20%	60%
5	Sculpture	23%	98%
6	Computer Programming	26%	93%
7	Racing Cars	14%	86%

Table Five and Six indicate the number of responses recorded for each item on an eleven item questionnaire administered to high school teachers and mentors/advisors for the TAG program. See Appendix E for the complete questionnaire. As a group, these data clearly lend positive support to the TAG program, with teachers scoring more "neutral" and "disagree" responses than those more involved in the program. The teachers' lack of day-to-day contact with the TAG program may have reduced their enthusiasm somewhat over that of mentors/advisors, who were more personally involved in the project.

**TABLE V**  
**FREQUENCY OF RESPONSES BY TEACHERS ON**  
**QUESTIONNAIRE ABOUT TAG PROGRAM (N=21)**  
**(1991-92)**

<u>Item</u>	<u>Number Disagree</u>	<u>Number Neutral</u>	<u>Number Agree</u>
1.	1	4	16
2.	3	4	14
3.	4	4	13
4.	3	3	15
5.	3	7	11
6.	3	5	13
7.	2	4	15
8.	2	1	18
9.	5	4	12
10.	0	6	15
11.	5	10	6
		<b>26</b>	

**TABLE VI**  
**FREQUENCY OF RESPONSES BY MENTORS/ADVISORS**  
**ON QUESTIONNAIRE ABOUT TAG PROGRAM (N=5)**  
**(1981-82)**

<u>Item</u>	<u>Number Disagreed</u>	<u>Number Neutral</u>	<u>Number Agreed</u>
1.			5
2.			5
3.			5
4.		1	4
5.			5
6.			5
7.			5
8.			5
9.			5
10.			5
11.			5

Table Seven presents the data obtained by students enrolled in the artistically talented program. The questionnaire is divided into three sections measuring students' attitudes, program evaluation, and classroom involvement. (See Appendix B) Scored as a weighted scale, the derived scores for each student, including the total score is shown in this table.

**TABLE VII**  
**RAW SCORES ON ART STUDENT SURVEY**  
**(1981-82)**

<u>Student</u>	<u>A.</u> <u>Attitudes</u> No. Items=9 Total Possible=45	<u>B.</u> <u>Evaluation</u> No. Items=20 Total Possible=100	<u>C.</u> <u>Classroom</u> No. Items=20 Total Possible=210	<u>Total</u> <u>Total Possible=350</u>
1.	42	79	128	249
2.	39	69	133	241
3.	38	69	118	225
4.	18	85	110	213
5.	22	64	114	200
6.	32	60	107	199
7.	31	59	107	197
8.	24	59	113	196
9.	30	65	101	196
10.	23	73	89	185
11.	26	56	101	183
12.	23	53	91	167
13.	19	50	75	144
<b>TOTAL</b>	<b>367</b>	<b>841</b>	<b>1,387</b>	<b>2,595</b>

**Scaled Used:**

**5 = Excellent**

**4 = Good**

**3 = Satisfactory**

**2 = Fair**

**1 = Poor**

**APPENDIX A**  
**INDEPENDENT PROJECT OUTLINE**

**INDEPENDENT PROJECTS  
BALDWIN HIGH SCHOOL**

**FORMAT:**

**I. Introductory/Background Reading**

Each student will find a book/article with some in-depth reading materials on the topic. Materials can be found by the student and with the assistance of the teacher. At least six references are required.

**II. Interview**

After developing a list of questions, the student contacts and interviews a person in the community/area on their views about the various elements of the Independent Learning Project.

**III. Observation**

The student will observe his mentor or a certain selected event associated with the Independent Project. He then writes an observation report.

**IV. Essay**

The student plans and writes an expository essay on the Independent Learning Project, integrating his reading notes, his interview results, and his observation conclusions.

**V. Role Playing**

The student develops an idea that will illustrate his Independent Project theme to the class. Classmates may be

used to aid in the role play situation. If role playing is not suitable to a specific topic, then an alternative means of class participation may be found.

#### VI. Personal Project

The student picks a project with teacher's class' help, develops, and presents it as a learning experience for the classmates.

**APPENDIX B**  
**ARTISTICALLY TALENTED OUTLINE**



**ART OUTLINE 81-82**

**I. Art History and Appreciation**

- A. Individual Reports**
- B. Class Exhibits**
- C. Films**
- D. Field Trips**
- E. Class Discussions**
- F. Constructive Critiques**

**II. Projects**

- A. Color Theory**
- B. Calligraphy**
- C. Printmaking**
  - 1. Basic introduction with extensive exploration**
  - 2. Rubbings with texture study**
  - 3. Block printing**
    - a. linoleum**
    - b. wood**
    - c. corrugated cardboard**
- D. Sculpture**
  - 1. Basic Instruction**
  - 2. Paper mache'**
  - 3. Clays**
  - 4. Carving**
  - 5. Wire**
  - 6. Nobiles**
  - 7. Plaster casting**
  - 8. Metal tooling**

- E. Crayon techniques**
- F. Matting techniques**
- G. Collages and mosaics of paper**
- H. Drawing**
- I. Crafts**
  - 1. Quilling**
  - 2. Decoupage**
  - 3. Ceramics**

### **III. Art Vocabulary Words**

**APPENDIX C**  
**WIENER ATTITUDE SCALE**

## ATTITUDE SCALE

This questionnaire has been devised to measure your attitudes. There are no "right" answers and no "wrong" answers. The only right answer is the one which best reflects your true personal opinion toward the question considered.

To answer questions, choose the answer below which corresponds most closely with your personal attitude toward the particular question, and place the corresponding number in the space provided at the left.

- |                               |                                   |
|-------------------------------|-----------------------------------|
| * (plus) 3 for strongly agree | - (minus) 3 for strongly disagree |
| * (plus) 2 for agree          | - (minus) 2 for disagree          |
| * (plus) 1 for mildly agree   | - (minus) 1 for mildly disagree   |

- \_\_\_\_\_ 1. Gifted child want to take too much of class time.
- \_\_\_\_\_ 2. There should be a change in the grading system for gifted students in special classes for the gifted.
- \_\_\_\_\_ 3. The aptitude of a given child is the primary consideration in the screening and selection of gifted children.
- \_\_\_\_\_ 4. Gifted children should remain in heterogeneous classes because they will spend their lives with all types of people.
- \_\_\_\_\_ 5. Gifted children develop cliques and exclude the rest of the class.
- \_\_\_\_\_ 6. Gifted children make great progress when placed in special classes.

7. The most important kind of ability to single out for consideration in a gifted child program is intellectual or mental ability.
8. Too many supplies are given to gifted children and denied to the other children.
9. Teachers should be selected on the basis of personality in addition to knowledge for instructing gifted classes.
10. Parents of gifted children interfere with the teachers and the teaching of the children.
11. Singling out gifted students for special treatment results in the establishment of an elite class.
12. The rigidity of teachers and administrators has acted as a buffer against more effective programs for the gifted.
13. Special classes and special teachers should be offered to the gifted children.
14. It is wiser to accelerate the gifted in the elementary school than in the secondary school.
15. Teachers become too interested in the gifted and neglect the average and below average in the classroom.
16. Gifted children stimulate each other to greater enthusiasm, effort and accomplishments.
17. Gifted children tend to display a degrading disrespect for the teacher.

- 18. There is a tendency to slight the gifted children when there is a wide range of ability in a class.
- 19. The school has to be concerned with the fundamental learnings and skills for all children and not with progress for special abilities and needs.
- 20. It is more important to provide special services for for the handicapped child than for the gifted.
- 21. When considering acceleration for the gifted, too much emphasis is placed on the social and emotional factors rather than intellectual growth.
- 22. Gifted children show sustained intellectual capacity proved by repeatedly high intelligence test ratings.
- 23. It is a wise educational procedure to require the gifted child to assist the slower learners.
- 24. Too many high I.Q.'s together create many problems - the interests are too great and varied for the teacher.
- 25. Having a gifted class carries special esteem for the teacher.
- 26. Gifted students can be taught more effectively when grouped with other gifted children than when grouped with non-gifted children.
- 27. The I.Q. of a child is not a fair estimate of his ability.
- 28. Teachers should have special qualifications if they are to work with the gifted.

**APPENDIX D**  
**SELECTED AREA TESTS BY MENTORS/ADVISORS**

## Brain Dominance

1. (a) What is the brain?  
(b) How much does the human brain weigh?  
(c) What are the divisions of the brain?
2. (a) Why are the cerebral hemispheres so large in humans?  
(b) How is this section of the brain arranged?
3. What is the function of the pyramidal cells and pyramidal tract?
4. What is the major function of the cerebellum, and why could it be compared to a special type of computer?
5. Produce a drawing which displays the two cerebral hemispheres.
6. (a) The "left hemisphere" is specialized for what functions?  
(b) The "right hemisphere" is specialized for what functions?
7. Discuss the motor and sensory functions of the forebrain.
8. Which of the cerebral hemispheres is termed the "dominant hemisphere" and which has been termed the "minor hemisphere"?
9. Discuss the components of memory.
10. What are your conclusions regarding specialization of brain functions and the learning process in general?



## Computer Programming

### 1. Matching: Statements

- |  |   |
|--|---|
| <p>_____ 1. Auto</p> <p>_____ 2. Cload</p> <p>_____ 3. CLS</p> <p>_____ 4. Defint</p> <p>_____ 5. Delete</p> <p>_____ 6. Edit</p> <p>_____ 7. For...to...step/next</p> <p>_____ 8. Goto</p> <p>_____ 9. If...then...else</p> <p>_____ 10. Input</p> <p>_____ 11. Let</p> <p>_____ 12. List</p> <p>_____ 13. New</p> <p>_____ 14. Print</p> <p>_____ 15. Print Tab</p> <p>_____ 16. Print Using</p> <p>_____ 17. Read</p> <p>_____ 18. Rem</p> <p>_____ 19. Run</p> <p>_____ 20. Return</p> <p>_____ 21. Set (x, y)</p> <p>_____ 22. Stop</p> <p>_____ 23. Reset (x, y)</p> | <p>a. defines variables as integer type</p> <p>b. transfers program control to the specified line</p> <p>c. erases program from memory</p> <p>d. moves cursor to specified tab position</p> <p>e. numbers line automatically</p> <p>f. reads value(s) from a DATA statement</p> <p>g. opens program loop</p> <p>h. stops execution of a program</p> <p>i. assigns value to variable</p> <p>j. loads BASIC program from cassette</p> <p>k. formats strings and numbers</p> <p>l. erases program lines from memory</p> <p>m. remark</p> <p>n. inputs data from keyboard</p> <p>o. executes program or portion of it</p> <p>p. clears the display</p> <p>q. turns off graphics block at specified location</p> <p>r. list program lines to the video display</p> <p>s. puts computer into edit mode for a line</p> <p>t. returns from subroutine to next statement after GOSUB</p> <p>u. tests conditional expression</p> <p>v. turns on graphics block at specified location</p> <p>w. print an item or items on the display at current cursor position</p> |
|--|---|

## Computer Programming (Page 2)

## 2. Operators: Matching

- |                              |                     |
|------------------------------|---------------------|
| _____ 1. I or C              | a. relational tests |
| _____ 2. -                   | b. multiplication   |
| _____ 3. . .                 | c. exponentiation   |
| _____ 4. +                   | d. addition         |
| _____ 5. /                   | e. division         |
| _____ 6. <, >, =, <=, >=, <> | f. subtraction      |

## 3. Edit Commands: Matching

- |                      |  |
|----------------------|--|
| _____ 1. A           | a. deletes a character   |
| _____ 2. n C         | b. inserts characters  |
| _____ 3. n D         | c. lists the line  |
| _____ 4. E           | d. searches for the <u>n</u> th occurrence of <u>c</u>               |
| _____ 5. H           | e. causes escape from command  |
| _____ 6. I           | f. cancels changes and starts again                                  |
| _____ 7. n K c       | g. moves cursor <u>n</u> spaces to the right                         |
| _____ 8. L           | h. kills all characters up to the <u>n</u> th occurrence of <u>c</u> |
| _____ 9. Q           | i. changes <u>n</u> characters                                       |
| _____ 10. n S c      | j. records all changes and exits edit mode                           |
| _____ 11. X          | k. ends editing and saves all changes                                |
| _____ 12. shift ↑    | l. quits edit mode and cancels all changes                           |
| _____ 13. enter      | m. hacks lines and inserts at end                                    |
| _____ 14. n spacebar | n. moves cursor <u>n</u> spaces to the left                          |
| _____ 15. n ←        | o. extends line (inserts at end)                                     |

### Computer Programming (Page 3)

#### 4. Control Keys: Matching

- |                   |   |
|-------------------|---|
| _____ 1.          | a. cancels last character typed; moves cursor back one space    |
| _____ 2. shift    | b. erases a current line  |
| _____ 3. break    | c. clears screen  |
| _____ 4. clear    | d. enters a space character and moves cursor 1 space forward    |
| _____ 5. enter    | e. puts display in 32-character mode                            |
| _____ 6. spacebar | f. advances cursor to next tab position                         |
| _____ 7.          | g. line feed and carriage return                                |
| _____ 8. shift    | h. "control" key  |
| _____ 9.          | i. signifies end of current line                                |
| _____ 10. shift   | j. causes currently executing program to pause                  |
| _____ 11. shift   | k. interrupts anything in progress and returns to level command |

5. Take these statements in Section I and construct a program of not more than 25 lines.

## German

I. Match the nouns below with their German singular and plural forms in the right column.

- |     |           |       |    |                               |
|-----|-----------|-------|----|-------------------------------|
| A.  |           |       |    |                               |
| 1.  | father    | _____ | a. | das Kleid, die Kleider        |
| 2.  | man       | _____ | b. | die Dame, die Damen           |
| 3.  | son       | _____ | c. | das Land, die Länder          |
| 4.  | brother   | _____ | d. | die Tante, die Tanten         |
| 5.  | gentleman | _____ | e. | die Minute, die Minuten       |
| 6.  | uncle     | _____ | f. | der Lehrer, die Lehrer        |
| 7.  | mother    | _____ | g. | die Schule, die Schulen       |
| 8.  | woman     | _____ | h. | das Mädchen, die Mädchen      |
| 9.  | daughter  | _____ | i. | die Straße, die Straßen       |
| 10. | sister    | _____ | j. | das Kind, die Kinder          |
| 11. | lady      | _____ | k. | die Stunde, die Stunden       |
| 12. | aunt      | _____ | l. | der Arm, die Arme             |
| 13. | teacher   | _____ | m. | die Tasse, die Tassen         |
| 14. | girl      | _____ | n. | der Berg, die Berge           |
| 15. | child     | _____ | o. | das Fenster, die Fenster      |
| 16. | arm       | _____ | p. | der Freund, die Freunde       |
| 17. | mountain  | _____ | q. | die Tür, die Türen            |
| 18. | letter    | _____ | r. | der Brief, die Briefe         |
| 19. | friend    | _____ | s. | die Antwort, die Antworten    |
| 20. | dog       | _____ | t. | der Hund, die Hunde           |
| 21. | war       | _____ | u. | die Zeitung, die Zeitungen    |
| 22. | month     | _____ | v. | der Krieg, die Kriege         |
| 23. | shoe      | _____ | w. | die Wohnung, die Wohnungen    |
| 24. | plate     | _____ | x. | der Monat, die Monate         |
| 25. | day       | _____ | y. | die Katze, die Katzen         |
| 26. | hand      | _____ | z. | der Schuh, die Schuhe         |
| 27. | night     | _____ | A. | der Koffer, die Koffer        |
| 28. | city      | _____ | B. | der Teller, die Teller        |
| 29. | year      | _____ | C. | das Hotel, die Hotels         |
| 30. | animal    | _____ | D. | der Tag, die Tage             |
| 31. | picture   | _____ | E. | das Auto, die Autos           |
| 32. | book      | _____ | F. | die Schwester, die Schwestern |
| 33. | glass     | _____ | G. | die Hand, die Hände           |
| 34. | house     | _____ | H. | die Tochter, die Töchter      |
| 35. | flower    | _____ | I. | die Nacht, die Nächte         |
| 36. | dress     | _____ | J. | die Frau, die Frauen          |
| 37. | country   | _____ | K. | die Stadt, die Städte         |
| 38. | minute    | _____ | L. | die Mutter, die Mütter        |
| 39. | school    | _____ | M. | das Jahr, die Jahre           |
| 40. | street    | _____ | N. | der Onkel, die Onkel          |
| 41. | hour      | _____ | O. | das Tier, die Tiere           |
| 42. | cup       | _____ | P. | der Herr, die Herren          |
| 43. | door      | _____ | Q. | das Bild, die Bilder          |
| 44. | answer    | _____ | R. | der Bruder, die Brüder        |
| 45. | week      | _____ | S. | das Buch, die Bücher          |
| 46. | newspaper | _____ | T. | der Sohn, die Söhne           |
| 47. | apartment | _____ | U. | das Glas, die Gläser          |
| 48. | cat       | _____ | V. | der Mann, die Männer          |
| 49. | car       | _____ | W. | das Haus, die Häuser          |
| 50. | hotel     | _____ | X. | der Vater, die Väter          |
|     |           |       | Y. | die Blume, die Blumen         |
|     |           |       | Z. | die Woche, die Wochen         |

German (continued)

B. Form the plurals of the following German nouns:

- 1. der Finger \_\_\_\_\_
- 2. das Fraulein \_\_\_\_\_
- 3. der Apfel \_\_\_\_\_
- 4. die Grossmutter \_\_\_\_\_
- 5. der Tisch \_\_\_\_\_
- 6. die Wurst \_\_\_\_\_
- 7. das Volk \_\_\_\_\_
- 8. der Name \_\_\_\_\_
- 9. die Nation \_\_\_\_\_
- 10. das Radio \_\_\_\_\_

II. Using the tables below, complete the blanks with the correct form of the word or words in the parenthesis.

Example: Man zeigt (a) ein Freund (of an) eines Offiziers (a) einen Soldaten (a) einen Weg aus dem Wald.

All Cases of der (the)

	masculine	feminine	neuter	plural
Nominative:	der	die	das	die
Genitive:	des	der	des	der
Dative:	dem	der	dem	den
Accusative:	den	die	das	die
ein (a, an)	ein eines einem einen	eine einer einer eine	ein eines einem ein	
dieser (this)	dieser dieses diesem diesen	diese dieser dieser diese	dieses dieses diesem dieses	diese dieser diesen diese
jener (that)	jener jenes jenem jenen	jene jener jener jene	jenes jenes jenem jenes	jene jener jenen jene

- 1. (The) \_\_\_\_\_ Freund (of the) \_\_\_\_\_ Vaters zeigt (the) \_\_\_\_\_ Schüler (the) \_\_\_\_\_ Weg nach Hause.
- 2. (The) Mutter (of the) \_\_\_\_\_ Dame bringt (the) \_\_\_\_\_ Frau (the) \_\_\_\_\_ Aufgabe.
- 3. (The) \_\_\_\_\_ Kind singt (the) \_\_\_\_\_ Mädchen (the) \_\_\_\_\_ Lied (of the) \_\_\_\_\_ Landes.
- 4. (A) \_\_\_\_\_ Mann bringt (a) \_\_\_\_\_ Freund (of a) \_\_\_\_\_ Lehrers (a) \_\_\_\_\_ Stuhl.
- 5. (A) \_\_\_\_\_ Dame gibt (a) \_\_\_\_\_ Frau (an) \_\_\_\_\_ Adresse (of a) \_\_\_\_\_ Freundin in Berlin.
- 6. (A) \_\_\_\_\_ Kind gibt (a) \_\_\_\_\_ Mädchen (a) \_\_\_\_\_ Bild (of a) \_\_\_\_\_ Schiffs.
- 7. (This) \_\_\_\_\_ Student gibt (to that) \_\_\_\_\_ Schüler (this) \_\_\_\_\_ Bleistift (of that) \_\_\_\_\_ Freundes.

German (continued)

8. Dann erzählt (this) \_\_\_\_\_ Frau (that) \_\_\_\_\_ Dame (This) \_\_\_\_\_  
 Geschichte (of that) \_\_\_\_\_ Schule in Deutschland.
9. Nun schickt (this) \_\_\_\_\_ Mädchen (that) \_\_\_\_\_ Kind (this) \_\_\_\_\_  
 Buch (of that) \_\_\_\_\_ Fräulein.

III. Complete the blanks by giving the missing principal part of the following verbs.

Meaning	Infinitive	Present	Past	Past Participle
1. shine	scheinen	_____	_____	_____
2. climb	steigen	steigt	_____	ist gestiegen
3. stay	bleiben	bleibt	blieb	ist _____
4. lose	verlieren	verliert	_____	hat verloren
5. fly	fliegen	_____	flog	ist geflogen
6. offer	bieten	bietet	bot	hat _____
7. help	helfen	hilft	_____	hat geholfen
8. take	nehmen	_____	nahm	hat genommen
9. speak	sprechen	spricht	sprach	hat _____
10. eat	essen	isst	ess	hat _____
11. give	geben	gibt	_____	hat gegeben
12. drive	fahren	fährt	_____	ist gefahren
13. wear	tragen	_____	trug	hat getragen
14. beat	schlagen	schlägt	schlug	hat _____
15. fall	fallen	fällt	_____	_____ gefallen
16. sleep	schlafen	_____	schief	hat geschlafen
17. be	sein	_____	war	ist gewesen
18. name	nennen	nennt	nannte	hat _____
19. can, able to	können	kann	_____	hat gekonnt
20. want	wollen	will	wollte	hat _____

IV. Conjugate the verb sagen (to say) as indicated below. Then conjugate geben (to give) in the same manner. (Indicative mood only, please.)

PRESENT TENSE

(I)	ich	_____
(you)	du	_____
(he)	er	_____
(we)	wir	_____
(you)	ihr	_____
(they)	sie, Sie	_____

IMPERFECT (past)

ich	_____
du	_____
er	_____
wir	_____
ihr	_____
sie, Sie	_____

German (continued)

PERFECT (present perfect)

PLUPERFECT (past perfect)

FUTURE

FUTURE PERFECT

7

GEBEN (to give) - - - as above, please.

**German (continued)****V. Express in German:**

1. We often sat in the shade of the trees.
2. Who knew the way home?
3. He gave us an example which we didn't understand.
4. When did you see him for the first time?
5. I knew that you were staying here.
6. Why didn't he appear at seven-thirty?
7. They have introduced us.
8. I asked if they could wait.
9. Never had he been in the country.
10. We thought of them while he learned the words.
11. Neither my mother nor my father believed those people.
12. Instead of describing the picture, he told a fairy tale.
13. For the last time he asked me to go back.
14. How has your family been?
15. We always opened the windows in order to be able to sleep better.
16. During the trip they sent many greetings to their friends.
17. After they had eaten the bread, they had to drink a cup of coffee.
18. Mr. Dietrich, do you usually play cards in the evening?
19. Friedrich, did you have no success with the poems which you wrote?
20. On the table lay the hat which she had worn to church.



### **Racing Cars**

- 1. Explain the overhead square principle.**
- 2. Name two types of front end suspension common in sports cars.**
- 3. What is the purpose of having holes in brake discs?**
- 4. What metal is commonly used in sports car connecting rods and crank shafts?**
- 5. Explain the differences between supercharged, turbo-charged, and naturally aspirated engines.**
- 6. What was the greatest flaw of the 917?**
- 7. Was the solution found through the use of computers, engineers, drivers, wind tunnels, or practical?**
- 8. List 10 things racing cars have contributed to passenger cars.**
- 9. Explain the differences between sports car racing and drag racing.**
- 10. Name 3 things that make the LeMans Grand Prix of Endurance one of the most dangerous races in the world.**

## Sculpture

1. Name six media used for sculpture.
2. Define these art vocabulary words as they pertain to sculpture.
  - a. armature
  - b. volume
  - c. void
  - d. shape
  - e. Axiomatic
3. Explain each of the three components of three-dimensional art.
  - a.
  - b.
  - c.
4. Explain each of the seven elements of three-dimensional form:
  - a.
  - b.
  - c.
  - d.
  - e.
  - f.
  - g.
5. Which of the above elements is unique to the 3-D arts? Why?
6. Explain how the principles of three-dimensional order are the same, but applied differently than in two dimensional art.
7. List the major characteristics of sculpture in the following periods of art:
  - a. Ancient
  - b. Classic
  - c. Renaissance
  - d. 19th Century
  - e. 20th Century - Pre World War II

**Sculpture (continued)**

- f. Modern - Post World War II
- g. Pre Columbian Art (in what country?)
- h. The sculpture of India
- i. North American Indian Art

8. Using the periods of art listed in question seven, place the following sculptors and sculptures in their correct category:

a. sculptors

1. Raphael
2. Rodin
3. Calder
4. Giacometti
5. Phidias
6. Donatello
7. David
8. Brancusi
9. Polykleitos

b. sculptures

10. Mayan
11. Vase Painting
12. Kachinas
13. Sculptures from Tell Auar
14. Buddha
15. Stonehenge

9. Explain two different processes an artist could use to cast a sculpture.
10. Explain the why's and how's of the plastic arts.

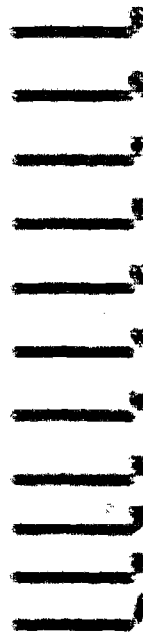
Typing

1. Fill in the blanks at the beginning of each statement with words or figures that best complete it.

- \_\_\_\_\_ by \_\_\_\_\_ 1. A standard sized sheet of paper is \_\_\_\_\_ by \_\_\_\_\_ inches.
- \_\_\_\_\_ and \_\_\_\_\_ 2. The margins for a 60-space line on an elite would be set at \_\_\_\_\_ and \_\_\_\_\_.
- \_\_\_\_\_ and \_\_\_\_\_ 3. The margins for a 50-space line on a pica would be set at \_\_\_\_\_ and \_\_\_\_\_.
- \_\_\_\_\_ 4. The whole top movable part of the typewriter is called the \_\_\_\_\_.
- \_\_\_\_\_ 5. The space bar is struck with the \_\_\_\_\_.
- \_\_\_\_\_ 6. The homerow keys for the left hand are \_\_\_\_\_.
- \_\_\_\_\_ 7. Space \_\_\_\_\_ after a semicolon.
- \_\_\_\_\_ 8. Space \_\_\_\_\_ after a colon.
- \_\_\_\_\_ 9. Space \_\_\_\_\_ after a period at the end of a sentence.
- \_\_\_\_\_ 10. Space \_\_\_\_\_ after a comma.
- \_\_\_\_\_ 11. Space \_\_\_\_\_ after a period used with an abbreviation.
- \_\_\_\_\_ 12. The typist should be positioned directly in front of the \_\_\_\_\_ key.
- \_\_\_\_\_ 13. The homerow keys for the right hand are \_\_\_\_\_.
- \_\_\_\_\_ 14. The black roller around which the paper turns is called the \_\_\_\_\_.
- \_\_\_\_\_ 15. The center for a pica machine on standard paper is at \_\_\_\_\_.
- \_\_\_\_\_ 16. There are \_\_\_\_\_ spaces across standard paper on an elite.
- \_\_\_\_\_ 17. The center for an elite on standard paper is at \_\_\_\_\_.
- \_\_\_\_\_ 18. There are \_\_\_\_\_ spaces across standard paper on a pica.
- \_\_\_\_\_ 19. A pica typewriter has \_\_\_\_\_ spaces to a horizontal inch.
- \_\_\_\_\_ 20. The shift of the \_\_\_\_\_ key is the question mark.
- \_\_\_\_\_ 21. The center for a sheet of paper 8 inches wide on an elite would be at \_\_\_\_\_.

- \_\_\_\_\_ 22. The metal bar that holds the paper against the cylinder is called the \_\_\_\_\_.
- \_\_\_\_\_ 23. Space \_\_\_\_\_ after a question mark.
- \_\_\_\_\_ 24. If you typed 33 total words in two minutes and had four errors, your speed per minute would be \_\_\_\_\_.
- \_\_\_\_\_ 25. To center horizontally THE OLD MAN AND THE SEA you would backspace \_\_\_\_\_ times from center.

2. Tell which finger is used to strike these keys:



**APPENDIX E**  
**TEACHER/MENTOR QUESTIONNAIRE**

## TAG QUESTIONNAIRE FOR MENTORS/ADVISORS

	Disagree		Agree		
	1	2	3	4	5
1. The TAG program has been a positive addition and benefit to the high school curriculum.	1	2	3	4	5
2. Realizing the difficulties in scheduling student time with mentors and advisors for independent studies, the benefits of the program outweigh the inconvenience.	1	2	3	4	5
3. The mentor and individual study approach is appropriate for a small, rural school district.	1	2	3	4	5
4. The mentor/advisor approach meets the <u>interests</u> of the students.	1	2	3	4	5
5. The mentor/advisor approach meets the <u>needs</u> of the students.	1	2	3	4	5
6. The use of mentors and advisors is a more effective approach than the traditional classroom approach for TAG students.	1	2	3	4	5
7. TAG students have benefited more as a result of the present program than no program at all.	1	2	3	4	5
8. The use of independent projects, mentors and advisors is an effective instructional technique for TAG students.	1	2	3	4	5
9. TAG students attitudes and knowledge improved as a result of their experiences with advisors and mentors.	1	2	3	4	5
10. Mentors and advisors benefited from their experiences with TAG students.	1	2	3	4	5
11. Mentors and advisors have a positive attitude toward the TAG program.	1	2	3	4	5

## TAG QUESTIONNAIRE FOR MENTORS/ADVISORS

	Disagree		Agree		
	1	2	3	4	5
1. The TAG program has been a positive addition and benefit to the high school curriculum.	1	2	3	4	5
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5. The mentor/advisor approach meets the <u>needs</u> of the students.	1	2	3	4	5
6. The use of mentors and advisors is a more effective approach than the traditional classroom approach for TAG students.	1	2	3	4	5
7. TAG students have benefited more as a result of the present program than no program at all.	1	2	3	4	5
8. The use of independent projects, mentors and advisors is an effective instructional technique for TAG students.	1	2	3	4	5
9. TAG students attitudes and knowledge improved as a result of their experiences with advisors and mentors.	1	2	3	4	5
10. Mentors and advisors benefited from their experiences with TAG students.	1	2	3	4	5
11. Mentors and advisors have a positive attitude toward the TAG program.	1	2	3	4	5



**APPENDIX F**  
**CASE STUDIES ON EXPERIMENTAL GROUP**

**STUDENT I****I. Computer Programming****II. Experiences**

- A. Toured computer programming department at University of Mississippi**
- B. Visited computer center at Northeast Mississippi Junior College**
- C. Demonstrated computers at New Albany for School District**

**III. Mentor Experiences**

- A. Mentor came daily to class for computer instruction**
- B. Learned programming and computer use**
- C. Completed numerous projects and assignments**

**IV. Reaction**

- A. Extremely positive and productive from students**
- B. Very positive from mentor**

**Mentor:** Bro. Jan Milton, Pastor  
Local resident with vast knowledge and interest in computers and programming.

**STUDENT II****I. Typing****II. Experiences****A. Completed Units 1-3****B. Mastered basic typing skills**

1. Letters and Numbers
2. Timed Writings
3. Margins
4. Typewriter Parts

**III. Mentor Experiences****A. Visited local secretary****B. Toured secretarial science department at  
Northeast Mississippi Junior College****C. Toured computer center at the University of Mississippi****IV. Reaction****A. Positive****B. Mastery of skills seen daily**

**Mentor: Mrs. Gail Dillard, Typing and Accounting Instructor  
at Baldwyn High School.**

## **STUDENT III**

### **I. German**

### **II. Experiences**

- A. Met with University of Mississippi German Professor**
- B. Toured language department at Northeast Mississippi Junior College**
- C. Taught German to third and fourth grade at Baldwyn Elementary School for four weeks**

### **III. Mentor Experience**

- A. Studied with mentor twice a week**
- B. Completed first year German equivalency**

### **IV. Reaction**

- A. Extremely positive from student**
- B. Much enthusiasm and effort from mentor**

**Mentor: Mrs. Bonnie Bennett, Local resident with certification in German.**

## **STUDENT IV**

**I. Brian Dominace**

**II. Experiences**

- A. Visited psychology department at the University of Mississippi**
- B. Toured guidance/counseling department at Northeast Mississippi Junior College**
- C. Made model of brain**

**III. Mentor Experiences**

- A. Visited three times with mentor at Northeast Mississippi Junior College**
- B. Completed ten assignments given by mentor**

**IV. Reaction**

- A. Positive from student**
- B. Positive from mentor**

**Mentor: Mr. Donnie Sweeney, Guidance/Counseling Department at Northeast Mississippi Junior College**

## **STUDENT V**

### **I. Sculpture**

### **II. Experiences**

- A. Toured art department at the University of Mississippi**
- B. Toured art department at Northeast Mississippi Junior College**
- C. Developed own sculpture creations**

### **III. Mentor Experiences**

- A. Met with mentor several times a week**
- B. Completed research and readings assigned by mentor**
- C. Completed sculpture work**

### **IV. Reaction**

- A. Somewhat positive from student**
- B. Positive and responsive from mentor**

**Mentor: Mrs. Bonnie MeVey, Art Instructor for Talented and Gifted Program at Baldwin High School.**

## **STUDENT VI**

### **I. Computer Programming**

### **II. Experiences**

- A. Toured computer programming department at University of Mississippi**
- B. Visited computer center at Northeast Mississippi Junior College**
- C. Demonstrated computers at New Albany for school district**

### **III. Mentor Experiences**

- A. Mentor came daily to class for computer instruction**
- B. Learned programming and computer**
- C. Completed numerous projects and assignments**

### **IV. Reaction**

- A. Extremely positive and productive from student**
- B. Very positive from mentor**

**Mentor: Bro. Jan Milton, Pastor**  
**Local resident with vast knowledge and interest in computers and programming.**

## **STUDENT VII**

### **I. Racing Cars**

### **II. Experiences**

- A. Toured engineering department at the University of Mississippi**
- B. Visited local car mechanics**
- C. Visited mechanics department at Northeast Mississippi Junior College**

### **III. Mentor Experiences**

- A. Read books assigned**
- B. Completed racing engine model**
- C. Learned parts and functions of engine**

### **IV. Reaction**

- A. Positive from student**
- B. Positive from mentor**

**Mentor: Mr. Jerone Larkin, Band Director at Baldwin High School.**



**APPENDIX C**  
**FOLLOW-UP INFORMATION ON**  
**EXPERIMENTAL GROUP**

**STUDENT I**

This student did an independent study in accounting during the 80-81 school year. He did not participate in TAG in 81-82 due to lack of interest. He graduated third in the 1981-82 class. He has completed his freshman year at Northeast Mississippi Junior College with a major in accounting.

**STUDENT II**

This student completed an independent study in engineering during the 80-81 year. He did not participate in TAG in 81-82 due to lack of interest and his desire to devote more time to his studies. He was salutatorian of the 1981-82 class. He has completed his freshman year at Mississippi State University, majoring in electrical engineering. He participated in the Co-Op Program gaining work experience along with education. He worked with Ingall's Ship Building on the Co-Op Program.

**STUDENT III**

This student did an independent study in psychology during the 80-81 school year. She did not participate in the program

during 81-82 due to scheduling conflicts. She graduated in 1982. She did not attend college. She worked at a local clothing store after graduation. She is currently employed at North Mississippi Medical Center in Tupelo and is married.

#### STUDENT IV

This student completed an independent project in law during the 80-81 school year. She did not participate in TAG during 81-82 or 82-83 school year due to scheduling conflicts. She was on the Co-Op Program and only had time for required subjects. She worked at Peoples Bank and Trust part-time and continues to work in this capacity. Upon graduation in 1983, she plans to attend Northeast Mississippi Junior College with a major in accounting and continue to work at the bank.

#### STUDENT V

This student has been in the TAG program for four years. He completed independent studies in journalism (80-81), sculpture (81-82), and computer programming (82-83). He graduated as the valedictorian of the 1983 class. He will

attend the University of Mississippi on a four-year football scholarship. He also received a scholarship to the University for graduating as valedictorian. He plans to major in chemical engineering and computer programming. He also expressed interest in law school.

#### STUDENT VI

This student completed an independent study in calculus during the 80-81 school year. She did not participate in TAG in 81-82 due to scheduling conflicts. She was on the Co-Op Program and only had time for the required subjects. She worked part-time at Medical Arts Pharmacy. She graduated as valedictorian of her 1981-82 class. After graduation she worked full-time at the pharmacy. She entered Northeast Mississippi Junior College in January, 1982 to major in accounting.

#### STUDENT VII

This student completed independent projects on racing cars in 1981-82 and on sports writing and athletic training in 1982-83. He will attend Northeast Mississippi Junior College and play football. He plans to major in physical education.

**APPENDIX H**  
**ARTISTICALLY TALENTED QUESTIONNAIRE**

**ART - STUDENT SURVEY**

<b>A. Attitudes</b>	<b>5</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>1</b>
1. Rate your attitude toward the art work you produce.	_____	_____	_____	_____	_____
2. What or how is the art teacher's attitude toward your work?	_____	_____	_____	_____	_____
3. I am open to experiencing any media techniques which are new to me.	_____	_____	_____	_____	_____
4. I am eager to learn about all areas of art.	_____	_____	_____	_____	_____
5. What or how is your attitude toward the work of your classmates?	_____	_____	_____	_____	_____
6. This program is accepted and supported by the administrators.	_____	_____	_____	_____	_____
7. Teachers have a positive attitude toward this program.	_____	_____	_____	_____	_____
8. Non-art students have a positive attitude about this program.	_____	_____	_____	_____	_____
9. Parents and the local community accept and support this program.	_____	_____	_____	_____	_____
<b>Number of Column Checks</b>	_____	_____	_____	_____	_____
<b>Multiplied by</b>	<u>5</u>	<u>4</u>	<u>3</u>	<u>2</u>	<u>1</u>
<b>Subtotals Section A</b>	_____	_____	_____	_____	_____

- 5 - Excellent
- 4 - Good
- 3 - Satisfactory
- 2 - Fair
- 1 - Poor

B. Evaluation	5	4	3	2	1
10. How has art helped you in other school subjects?	_____	_____	_____	_____	_____
11. How has art helped you to occupy your spare time?	_____	_____	_____	_____	_____
12. How do you rate your own ability to express your thoughts and ideas through art work?	_____	_____	_____	_____	_____
13. Are you able to organize these thoughts and ideas into an art piece?	_____	_____	_____	_____	_____
14. I have developed a keener sense of visual awareness of the world around me.	_____	_____	_____	_____	_____
15. I have learned to appreciate the world around me -- natural and man-made	_____	_____	_____	_____	_____
16. Problem solving, or open-ended projects really make me THINK in order to use my creative abilities; they are not as spontaneous as you might believe.	_____	_____	_____	_____	_____
17. I accept the fact that I make mistakes and have room for improvement.	_____	_____	_____	_____	_____
18. I realize that I do learn through my mistakes.	_____	_____	_____	_____	_____
19. I am learning responsibility through caring for supplies, having due dates and homework, and participating in group projects.	_____	_____	_____	_____	_____
20. How has your general knowledge of art improved?	_____	_____	_____	_____	_____
21. I have knowledge of a variety of art techniques and/or methods to choose from in order to satisfactorily express myself.	_____	_____	_____	_____	_____
22. I am able to evaluate my work according to standard guidelines.	_____	_____	_____	_____	_____

- 5 - Excellent
- 4 - Good
- 3 - Satisfactory
- 2 - Fair
- 1 - Poor

**B. Evaluation (continued)**

	5	4	3	2	1
23. I am able to recognize famous works of art; to name their artists and titles.	_____	_____	_____	_____	_____
24. I am able to recognize what period art period or movement an artpiece belongs to.	_____	_____	_____	_____	_____
25. Art has been beneficial to the school curriculum.	_____	_____	_____	_____	_____
26. I have benefited more from being in the art program than if there were no program at all.	_____	_____	_____	_____	_____
27. I enjoy having my art work displayed for others to view.	_____	_____	_____	_____	_____
28. Taking into consideration our rural location, rate how your needs and interests in art are being met.	_____	_____	_____	_____	_____
29. I generally enjoy this program.	_____	_____	_____	_____	_____

Number of Column Checks

Multiplied by

Subtotals Section B

_____	_____	_____	_____	_____
5	4	3	2	1
_____	_____	_____	_____	_____

- 5 - Excellent
- 4 - Good
- 3 - Satisfactory
- 2 - Fair
- 1 - Poor



C. <u>Classroom Atmosphere &amp; Resources</u>	5	4	3	2	1
30. Learning art vocabulary words helps me better understand instructions, lectures and reading materials.	_____	_____	_____	_____	_____
31. I am learning to use and understand a variety of art media.	_____	_____	_____	_____	_____
32. I am learning to use and maintain art tools and equipment.	_____	_____	_____	_____	_____
33. The art teacher uses constructive criticism when evaluating my work.	_____	_____	_____	_____	_____
34. It is helpful to me when we students do constructive criticism of each other's work.	_____	_____	_____	_____	_____
35. Projects are open-ended for individuals, not mass-produced copies.	_____	_____	_____	_____	_____
36. Original work is required in order to develop our creativity.	_____	_____	_____	_____	_____
37. I would like to do independent projects which include self-study and individual projects relating to <del>self</del> research.	_____	_____	_____	_____	_____
38. I want to only do projects similar to what everyone else is working on at a given time.	_____	_____	_____	_____	_____
39. We experiment in two-dimensional art satisfactorily.	_____	_____	_____	_____	_____
40. We experiment in three-dimensional art satisfactorily.	_____	_____	_____	_____	_____
41. More practice in drawing would help me do all my projects better.	_____	_____	_____	_____	_____
42. I have a satisfactory understanding of the <u>elements</u> of basic art design.	_____	_____	_____	_____	_____
43. I have a satisfactory understanding of the <u>principles</u> of basic art design.	_____	_____	_____	_____	_____

- 5 - Excellent  
 4 - Good  
 3 - Satisfactory  
 2 - Fair  
 1 - Poor

**C. Classroom Atmosphere & Resources (continued)**

	5	4	3	2	1
44. The amount of class time allowed for each project is satisfactory.	_____	_____	_____	_____	_____
45. Doing art work as homework assignments is necessary for progressive development.	_____	_____	_____	_____	_____
46. I want to enter some of my art work in contests (school, local, state, national)	_____	_____	_____	_____	_____
47. Our program's limited budget provides a variety of supplies and equipment to choose from.	_____	_____	_____	_____	_____
48. Students keep supplies orderly in storage areas and work areas.	_____	_____	_____	_____	_____
49. Students use tools and equipment only for what they were intended for.	_____	_____	_____	_____	_____
50. Students keep tools, equipment and work areas clean and well maintained for the next person to use.	_____	_____	_____	_____	_____
51. The classroom provides satisfactory work area.	_____	_____	_____	_____	_____
52. The classroom provides satisfactory storage space.	_____	_____	_____	_____	_____
53. The classroom provides satisfactory facilities.	_____	_____	_____	_____	_____
54. Everyone cleans up his/her own daily mess.	_____	_____	_____	_____	_____
55. A satisfactory amount of reading references for art are provided in the classroom.	_____	_____	_____	_____	_____
56. I use these art references regularly.	_____	_____	_____	_____	_____
57. A satisfactory amount of reading references for art are available in the school library.	_____	_____	_____	_____	_____
58. I use these references regularly.	_____	_____	_____	_____	_____

- 5 - Excellent
- 4 - Good
- 3 - Satisfactory
- 2 - Fair
- 1 - Poor

C. <u>Classroom Atmosphere &amp; Resources (continued)</u>	5	4	3	2	1
59. A satisfactory amount of reading references or the availability of borrowed material is provided by the town library.	_____	_____	_____	_____	_____
60. I use these references regularly.	_____	_____	_____	_____	_____
61. Using library materials for research and reports would give me more knowledge and insight into general areas of art, as well as specific topics.	_____	_____	_____	_____	_____
62. Our textbooks give satisfactory general information about art history and appreciation.	_____	_____	_____	_____	_____
63. Our textbook(s) give satisfactory information about basic design guidelines applicable to developing my arts and/or projects creativeness.	_____	_____	_____	_____	_____
64. Movies/filmstrips/slides/pictures help me better understand art topics.	_____	_____	_____	_____	_____
65. Movies/filmstrips/slides/pictures help me better retain art information.	_____	_____	_____	_____	_____
66. This program provides satisfactory audio-visual aids.	_____	_____	_____	_____	_____
67. Field trips are satisfactory in amount and in subjects they pertain to.	_____	_____	_____	_____	_____
68. This program provides for guest artists to lecture and/or demonstrate their talents.	_____	_____	_____	_____	_____
69. A variety of information about art schools and college programs is available to me.	_____	_____	_____	_____	_____
70. What is the possibility of you choosing an area of art for a lifetime career?	_____	_____	_____	_____	_____
71. My answer to question #70 might change for the better if we were introduced to more career opportunities through the ways suggested in questions #66 to 69.	_____	_____	_____	_____	_____

- 5 - Excellent
- 4 - Good
- 3 - Satisfactory
- 2 - Fair
- 1 - Poor

<b>Number of Column Checks</b>	_____	_____	_____	_____	_____
<b>Multiplied by</b>	<u>3</u>	<u>4</u>	<u>3</u>	<u>2</u>	<u>1</u>
<b>Subtotals Section C</b>	_____	_____	_____	_____	_____
<b>Subtotals Section B</b>	_____	_____	_____	_____	_____
<b>Subtotals Section A</b>	_____	_____	_____	_____	_____
<b>Column Totals</b>	_____	_____	_____	_____	_____
<b>Survey Total</b>			_____		

**D. WRITE**

Comments and suggestions pertaining to any area of art or this program for  
the artistically talented:

**APPENDIX I**

**RAW SCORES ON TESTS ADMINISTERED**

**RAW SCORES ON WIENER ATTITUDE SCALE  
(1981-82)**

<u>Teacher</u>	<u>Pretest = August, 1981</u>	<u>Post-Test = May, 1982</u>
1	*66	*37
2	*50	*25
3	*46	*18
4	*40	*14
5	*33	*14
6	*30	*13
7	*28	*13
8	*22	*12
9	*21	* 7
10	*18	* 6
11	*12	* 5
12	*10	* 4
13	* 9	* 2
14	* 8	0
15	* 4	0
16	-34	- 3
17	-14	- 4
18	-11	- 6
19	- 8	- 7
20	- 7	-14
Mean	16.2	6.8

**RAW SCORES ON CALIFORNIA ACHIEVEMENT TEST (PRE AND POST TESTS)**

**EXPERIMENTAL GROUP**

**(1981-82)**

Total Possible	<u>Reading</u>		<u>Math</u>		<u>Language</u>		<u>Spelling</u>		<u>Total</u>	
	<u>100</u> <u>Pre</u>	<u>70</u> <u>Post</u>	<u>125</u> <u>Pre</u>	<u>85</u> <u>Post</u>	<u>80</u> <u>Pre</u>	<u>65</u> <u>Post</u>	<u>20</u> <u>Pre</u>	<u>20</u> <u>Post</u>	<u>333</u> <u>Pre</u>	<u>238</u> <u>Post</u>
	61	57	114	69	82	59	14	11	294	196
	64	51	89	60	69	49	7	9	219	169
	90	64	110	71	82	57	12	15	294	207
	83	54	94	62	82	59	6	16	269	191
	96	68	121	84	85	61	17	17	319	230
	91	57	100	43	81	55	18	20	290	175
	82	59	78	51	76	56	8	11	244	177

Different forms of the CAT were used on the Pre and Post tests due to changes made at the State level. In each comparison, the percentages correct on each subtest was calculated and statistical analyses applied to these percentages.



**RAW SCORES ON CALIFORNIA ACHIEVEMENT TEST (PRE AND POST TESTS)**  
**CONTROL GROUP**  
**(1981-82)**

Total Possible	<u>Reading</u>		<u>Math</u>		<u>Language</u>		<u>Spelling</u>		<u>Total</u>	
	<u>100</u> <u>Pre</u>	<u>70</u> <u>Post</u>	<u>125</u> <u>Pre</u>	<u>85</u> <u>Post</u>	<u>88</u> <u>Pre</u>	<u>63</u> <u>Post</u>	<u>20</u> <u>Pre</u>	<u>20</u> <u>Post</u>	<u>333</u> <u>Pre</u>	<u>238</u> <u>Post</u>
	84	53	95	51	83	56	15	13	277	173
	74	42	93	66	72	51	13	11	252	177
	83	56	113	73	81	56	10	11	287	196
	76	56	91	64	68	43	13	13	248	176
	65	41	76	38	71	53	8	7	220	139
	73	39	113	71	74	53	14	17	274	180
	59	34	91	58	70	22	10	7	230	141