ABSTRACT
        This courseware evaluation rates the "Introduction to
Nursing Diagnosis" program developed by J.B. Lippincott Co. (The
program--not included in this document--is a tutorial for second-year
nursing students; it presents diagnosis as a mathematical formula).
Part A describes the program in terms of subject area (allied health,
nursing) and hardware requirements (Apple II with RAM card or Apple
language card, IBM-PC, or Franklin Ace), and indicates its
suitability for tutorial or drill and practice at the postsecondary
level. Listed next are appropriate instructional grouping (individual
and small groups), accompanying materials (user's guide), and time
estimate (30-60 minutes). Availability information includes cost
($129.00), policies and copyright restrictions, and contact address.
A prerequisite for use is understanding of the nursing process. Part
B contains the evaluation criteria in eight categories; reviewer
ratings appear as yes, somewhat, no, and not applicable, with
explanatory comments. Part C summarizes the evaluation. The strengths
of this program are that it provides logical steps to understanding
and writing a nursing diagnosis and that it differentiates between
nursing and medical diagnosis. Weaknesses are that it requires
spelling and typing skills, and that the list of possible answers is
too prescribed. A summary section shows that this courseware received
overall ratings of "yes" in the categories of subject matter,
technical presentation, student interaction, program interaction, and
documentation, and "somewhat" for student evaluation and work
behaviors; the category of application programs was not applicable.
The program was recommended as a useful tool in making nursing
diagnosis easier. (SK)
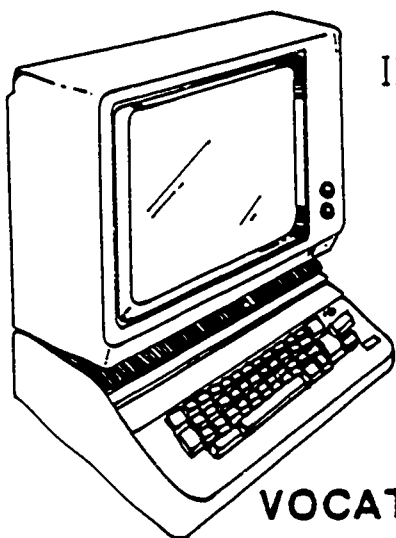
INTRODUCTION TO NURSING DIAGNOSIS

COURSEWARE EVALUATION

FOR

VOCATIONAL AND TECHNICAL EDUCATION

The evaluation of this courseware program was conducted by a team participating in the Courseware Evaluation Network. The Network, established in 1985, is coordinated by the National Center for Research in Vocational Education under the sponsorship of the U.S. Department of Education, Office of Vocational and Adult Education. The purpose of the Network is to identify and evaluate microcomputer courseware, and to disseminate courseware reviews for vocational and technical education.

Each Network team includes three members, at least one of which is, or recently has been, a vocational or technical teacher in the subject matter area of the courseware being evaluated. The evaluation represents a synthesis of the opinions of the team members. It is suggested that the evaluation be used as a first screening device for courseware and that the teacher also evaluate the courseware program on the basis of specific student needs.

The Courseware Evaluation: Form and Guide used for all of the Network evaluations was developed by the National Center and is available through its cost-recovery system.
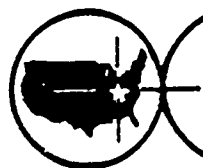
THE NATIONAL CENTER
FOR RESEARCH IN VOCATIONAL EDUCATION
THE OHIO STATE UNIVERSITY
1960 KENNY ROAD · COLUMBUS. OHIO 43210

COURSEWARE EVALUATION FORM

Evaluator __Jan Irving, Connie Lommel, Barbara Nubile__

Position __Nursing Instructors__

Date __March 1986__
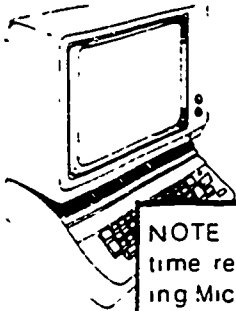
NOTE If you are using this form for the first time read the instructions in the accompanying Microcomputer Courseware Evaluation Guide

Part A: Courseware Description

In the following sections. record descriptive information about the courseware that you are evaluating

I IDENTIFICATION

Program Title __Introduction to Nursing Diagnosis__   Date __1984__

Series Title _____

Vocational Area(s) __Health__

Subject Area(s) __Allied Health__

Topic(s) __Nursing__

Developing Agency __J.B. Lippencott Company, Department of Audiovisual Media__

Street or P O Box __East Washington Square__

City __Philadelphia,__ State __PA__ Zip __19105__ Phone(__800__) __523-2945__

Author(s) __Yoder, Marianne E.__

Programmer(s) __Wells, Robin W.__

II HARDWARE REQUIREMENTS

Microcomputer· __Apple II+ with RAM Card or Apple Language Card, Apple IIe__
(brand/model)

K Memory Required __64K__
(number)

Medium of Transfer (include number of each)

__ Tape cassette	__1__ 5' " Flexible disk	__ Other _____
__ ROM cartridge	__ 8" Flexible disk	
		(specify)

Programming Language __Superpilot__   DOS Specifications __3.3__

Other Specifications _____

Peripherals Needed (check all that apply)

__ Color monitor	__ Modem	__ Clock
__X__ One disk drive	__ Mouse	__ Video disk
__ Two disk drives	__ Printer	__ Touch screen
__ Plotter	__ Graphics tablet	__ Ten-key number
__ Game paddle(s)	__ Light pen	pad
__ Joystick(s)	__ Voice/sound instrument	__ Other _____ (specify)

·NOTE. Provide the above information for any additional hardware on which this program can be used. __IBM-PC, Franklin Ace__

_____

_____

III. PROGRAM FEATURES (check all that apply):

___ Network version provided
_X_ Multiple copies required
___ Program can be modified

_X_ Program protected
___ Data disk needed
___ Field-test data available

IV INSTRUCTIONAL SETTING

Program mode (check all that apply):

___ Application
_x_ Drill and practice

___ Educational gaming
___ Simulation

_X_ Tutorial
___ Other _____ (specify)

Student Target Population (check all that apply):

_X_ Regular
___ Disadvantaged

___ Handicapped
___ Limited English

_ Bilingual
___ Gifted

Grade Level (check all that apply):

___ K-6
___ 7-8

___ 9-10
___ 11-12

_X_ 13-14
_X_ Adult

___ Higher Education

Instructional Grouping (check all that apply):

_X_ Individual
_x_ Small group (up to 4)
___ Large group (4 or more)

___ competitive interaction
_X_ cooperative interaction

Prerequisite Student Skills (specify) ___Understanding of Nursing Process___

Accompanying Materials (specify types):
Documentation ___User's Guide___

Student support materials ___User's Guide___

Teacher support materials ___User's Guide___

Correlated materials _____

Estimated Time for Use ___30 to 60 minutes___

V. AVAILABILITY

___ Free_____ (copies)

___ Loan_____ (time)

___ Duplication (requestor supplies disk)

_X_ Sale $___129.00___

___ Rent $_____ _____ (time)

Copyright Restrictions (explain) ___May not be copied.___

Back-up Policy (explain) ___Free replacement of damaged disk.___

Preview Policy (explain) ___2 to 4 weeks (free except for return postage)___

Update Policy (explain) _____

Contact ___J.B. Lippencott Media___

Street or P O. Box ___2350 Virginia Avenue___

City ___Hagerstown,___ State ___MD___ Zip ___21740___ Phone (800) ___523-2945___

4

Part B: Courseware Evaluation Criteria

Indicate the applicability of each section to the courseware being evaluated by checking either "___ A" (applicable) or "___ N/A" (not applicable) If a section is not applicable proceed to the next section If a section is applicable. check the column that indicates how well the courseware meets each criterion Include any comments.

	YES	SOME-WHAT	NO	N/A	COMMENTS
I SUBJECT MATTER _x_ A ___ N/A					
1 Subject matter has educational value.	x				
2 Student objectives are stated	x				
3 Subject matter is accurate.	x				
4 Subject matter is logically presented.	x				Student can choose any sequence.
5. Subject matter is free of race. ethnic. sex. and other stereotypes.	x				
6 Subject matter is on the level of the students.		x			Not for first-year students.
7 Information and skills presented are comparable to those used in the home. business or industry		x			
8 Subject matter motivates students to learn		x			
9 Subject matter is reviewed and summarized.		x			
10 Program utilizes the unique capabilities of the microcomputer to present the subject matter		x			
II TECHNICAL PRESENTATION _x_ A ___ N/A					
1 Program is free of technical problems.	x				
2. Presentation rate is adequate to maintain interest.	x				User driven.
3 Information on the screen is easy to read.	x				Some areas confusing.
4 Program is free of spelling and grammatical errors.	x				
5 Program instructions are easy to follow	x				
6 Color increases the instructional value of the program				x	Color monitor not used.
7 Audio increases the instructional value of the program				x	No audio in program.
8 Graphics increase the instructional value of the program			x		Too little to be of value.

5

	YES	SOME-WHAT	NO	N/A	COMMENTS
III. STUDENT INTERACTION __X_ A ___ N/A					
1 Students can use the program with min-imal assistance	x				
2. Students are actively involved in the program	x				Fill in blanks and open-ended questions.
3. Students control the pace of the program.	x				With return key.
4 Students can access the program "menu(s)" to change activities.		x			Only at ends of sub-units.
5 Students are permitted to change answers.	x				With arrow keys.
6. Methods of responding correspond to the level of the program.		x			
7 Students' errors of entry are processed so that the program continues to run.		x			
8. Students can access available "help" and "hint" options at any time.			x		
9. Students can enter or exit the program as desired.			x		Only from main menu.
10. Students control the sequence of the program.	x				
IV. PROGRAM INTERACTION __X_ A ___ N/A					
1 Feedback is immediate.	x				
2. Cues and prompts are provided to assist students in answering correctly.		x			No hint about spelling errors.
3 Feedback reinforces the correct responses.	x				
4 Feedback is nonthreatening.		x			The spelling error response is "I don't understand".
5. Program helps students understand wrong answers.		x			Gives brief description and then correct answer.
6. Program gives the correct answer after a reasonable number of tries.	x				One to two tries.
7 Positive reinforcement is varied.	x				
8 Program has the ability to branch/loop depending upon students' performance.	x				
9 Feedback is on the level of the student.	x				
V STUDENT EVALUATION __X_ A ___ N/A					
1 Evaluation provides a means for measur-ing attainment of objectives.	x				Gives number of correct answers and brief repeat of objective.
2 Program reports which items were missed and which were correct.		x			Only after each question.

	YES	SOME-WHAT	NO	N/A	COMMENTS
V STUDENT EVALUATION—*Continued*					
3 Individual student performance results are available to the teacher			x		
4 Class performance results are available to the teacher			x		
5 Program provides for printed copies of evaluations.			x		
6 Test item formats are suited to the material being tested.	x				
7 Test items are clearly stated.		x			
8. Test item bank is provided.				x	Mini-quiz in User's Guide.
VI. DOCUMENTATION _X_ A ___ N/A					
1 Documentation is easy to understand.	x				
2. Documentation is accurate.	x				
3 Student objectives are stated.	x				
4 Underlying concepts are outlined.	x				
5. Skills to be developed are specified.	x				
6. Procedures for integrating the program into the curriculum are provided.		x			Brief section in User's Guide.
7 Follow-up activities are suggested.		x			Briefly in User's Guide.
8. Documentation explains the intended use of support materials.				x	
9 Sufficient information is provided to operate the program.	x				Could be more specific about exiting program.
VII WORK BEHAVIORS _X_ A ___ N/A					
1. Program helps students identify their vocational skills.		x			May not be reflective if student is poor speller.
2. Program promotes pride in work.				x	
3 Program promotes productivity				x	
4. Program encourages good work habits.		x			
5 Problem solving is encouraged.		x			
6 Program promotes good human relations skills.			x		
7 Program provides an opportunity for work satisfaction and self-fulfillment.		x			
8. Program encourages creativity			x		

	YES	SOME-WHAT	NO	N/A	COMMENTS
VIII. APPLICATION PROGRAMS __ A _X_ N/A (to be completed for application programs only)					
1 Program is adaptable to the needs of the student.					
2. Commands are easily remembered.					
3. Information is easily manipulated.					
4 Corrections are easy to make.					
5. Program includes all necessary variables.					
6. Program performs reliably.					
7 Program efficiently achieves its intended purpose.					
8. Trial data are supplied for learning to run the program.					
9. Program provides for use of printer when hard copy of information is advantageous.					
10. Program moves from operation to operation efficiently.					
11. Program is compatible with other application programs.					
12. Program has a supplementary tutorial program available.					

1 SUMMARY COMMENTS

Identify strengths of the courseware   Menu-driven with complete sub-units. Strong
section on differentiating nursing diagnosis and medical diagnosis. Logical
steps to understanding and writing a good nursing diagnosis.

Identify weaknesses of the courseware   Requires spelling and typing skills. Too much
typing. The list of possible answers is too prescribed so that selection
of the correct answers is too easy.

Describe uses of the courseware in an instructional setting.   Reinforce nursing diagnosis for
second-year students. Will help those needing additional instruction in
nursing diagnosis who do not know the "formula".

2. SUMMARY OF SECTION

Rate the quality of the courseware for each applicable section of this form by checking the
appropriate column: if not applicable. check N/A.

	YES	SOME-WHAT	NO	N/A
I. SUBJECT MATTER: Content has educational value.	x			
II TECHNICAL PRESENTATION: Program is free of malfunctions.	x			
III. STUDENT INTERACTION: Students are actively involved with the program.	x			
IV PROGRAM INTERACTION: Feedback is effectively employed.	x			
V STUDENT EVALUATION: Evaluation adequately measures student progress.		x		
VI DOCUMENTATION: Documentation is sufficient to run the program	x			
VII WORK BEHAVIORS. Program assists students in developing positive work attitudes and skills.		x		
VIII APPLICATION PROGRAMS. Program performs the task for which it is intended.				x

3. FINAL RECOMMENDATION

Check your recommendation for the courseware and explain your reasons below

___ Highly recommend   ___ Recommend with reservations
_X_ Recommend   ___ Do not recommend

Runs smoothly, clear format. Useful tool, making nursing diagnosis easier

by persenting it almost as a mathematical formula.

9

TO ORDER ADDITIONAL COPIES OF THIS PUBLICATION USE—	ORDER NUMBER	PRICE
• Microcomputer Courseware Evaluation Form and Guide for Vocational and Technical Education	SN 44	$2 50

TO ORDER RELATED PUBLICATIONS, REFER TO—

• Microcomputers in Voc Ed: A Decision Guide	RD 239 A	$6 75
• An Administrator's Guide to Microcomputer Resources	RD 239 B	$9.50
• Microcomputer Software for Adult Vocational Education: Guidelines for Evaluation	IN 261	$3.25
• Microcomputers in Small Business Management	LT 64	$6.50
• Word Processing: A Guide to Program Planning	LT 65	$4.95

ORDERING INSTRUCTIONS

Microcomputer Courseware Evaluation Guide: Form and Guide
for Vocational and Technical Education

Developed by:
Shirley A. Chase
Ruth Gordon
Richard C. Makin