ED 268 318   CE 044 177

TITLE   Caffeine. Courseware Evaluation for Vocational and
               Technical Education.
INSTITUTION   Ohio State Univ., Columbus. National Center for
               Research in Vocational Education.
SPONS AGENCY   Office of Vocational and Adult Education (ED),
               Washington, DC.
PUB DATE   9 May 86
NOTE   10p.; For a related document, see ED 244 058.
PUB TYPE   Reports - Evaluative/Feasibility (142)

EDRS PRICE   MF01/PC01 Plus Postage.
DESCRIPTORS   Adult Education; Allied Health Occupations Education;
               *Computer Assisted Instruction; *Courseware; *Food;
               *Home Economics; Instructional Material Evaluation;
               *Nutrition; Programed Tutoring; Secondary
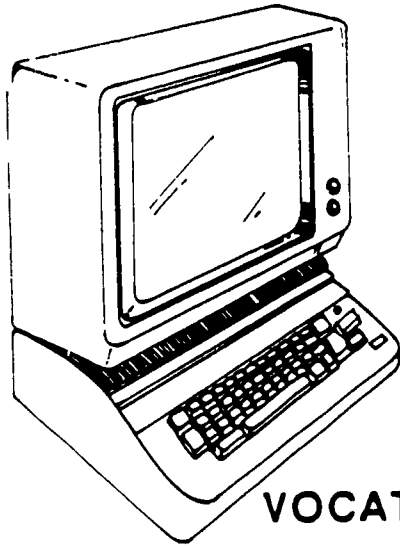   Education
IDENTIFIERS   *Caffeine; *Courseware Evaluation

ABSTRACT
          This courseware evaluation rates the "Caffeine"
program developed by Lane Community College and sold by the Oregon
Department of Education. (The program--not included in this
document--is part of a computer-assisted instruction project with
nursing applications.) Part A describes "Caffeine" in terms of topics
(food and nutrition, allied health) and hardware requirements (Apple
II and peripherals), indicates its suitability as a tutorial for
11th-grade to adult instruction, and estimates time for use (20-30
minutes). Availability information includes cost ($5.00), policies,
and contact address. 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 good graphics, concise
presentation of information, and excellent reinforcement. Weaknesses
include no printout capability, lack of documentation, and too long a
list of objectives. Summary ratings in the eight categories include
the following: subject matter, technical presentation, student
interaction, and program interaction--yes; student evaluation and
documentation--somewhat; work behaviors and application programs--not
applicable. The program is recommended for individualized instruction
in classrooms and informal settings such as doctors' offices. (SK)

CAFFEINE

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 Nationa⊥ Center tor Research in Vocational Education under the sponsorship of the ∪.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.
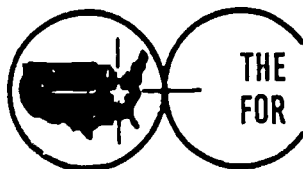
THE NATIONAL CENTER
FOR RESEARCH IN VOCATIONAL EDUCATION
THE OHIO STATE UNIVERSITY
1960 KENNY ROAD · COLUMBUS OHIO 43210

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COURSEWARE EVALUATION FORM

NOTE If you are using this form for the first time. read the instructions in the accompanying Microcomputer Courseware Evaluation Guide

Evaluator _25 participants in the Courseware_
Position _Evaluation Network coordinated by the National Center for Research in_
Date _Vocational Education_
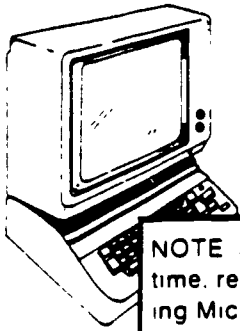
Part A: Courseware Description May 9, 1986

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

I IDENTIFICATION

Program Title _Caffeine_   Date _1982_

Series Title _CAI: Health Occupations_

Vocational Area(s) _Home Economics; Health_

Subject Area(s) _Food and Nutrition; Allied Health_

Topic(s) _Nutrition_

Developing Agency _Lane Community College_

Street or P O Box _4000 East 30th Avenue_

City _Eugene,_ _____ State _OR_ Zip _97405_ Phone' ___

Author(s) _Lisa Henn_

Programmer(s) _Roberta Russell_

II HARDWARE REQUIREMENTS

Microcomputer* _Apple II, II+, IIe, IIc_
(brand/model)

K Memory Required _48K_
(number)

Medium of Transfer (include number of each)

___ Tape cassette   _1_ 5'." Flexible disk   ___ Other _____
___ ROM cartridge   ___ 8" Flexible disk
                                                         (specify)

Programming Language _____ DOS Specifications _____

Other Specifications _Color monitor optional,_

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 pad
___ Game paddle(s)	___ Light pen	
___ Joystick(s)	___ Voice/sound instrument	___ Other _____ (specify)

*NOTE. Provide the above information for any additional hardware on which this program can be used. _____

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III PROGRAM FEATURES (check all that apply)

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

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

IV INSTRUCTIONAL SETTING

Program mode (check all that apply):

___ Application
___ 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
X_ 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
___ cooperative interaction

Prerequisite Student Skills (specify) _____

Accompanying Materials (specify types):
Documentation _____ One Page. _____

Student support materials _____

Teacher support materials _____

Correlated materials _____

Estimated Time for Use _____ 20-30 Minutes. _____

V AVAILABILITY

___ Free _____
(copies)

X_ Loan ____ 4 weeks
(time)

X_ Duplication (requestor supplies disk)

X_ Sale S 5.00 ____

___ Rent S _____ _____
(time)

Copyright Restrictions (explain) ____ Copyright Oregon Department of Education, may reproduce with permission.

Back-up Policy (explain) _____

Preview Policy (explain) _____

Update Policy (explain) _____

Contact ____ Dissemination-Vocational Education, Oregon Department of Education

Street or P O. Box ____ 700 Pringle Parkway, SE

City ___ Salem, ___ State ___ OR ___ Zip ___ 97310 ___ Phone (503) 378-2713

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				
5 Subject matter is free of race. ethnic. sex. and other stereotypes.	x				
6 Subject matter is on the level of the students.	x				
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				
3 Information on the screen is easy to read	x				
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			Many reviewers did not have access to color monitor
7 Audio increases the instructional value of the program				x	
8 Graphics increase the instructional value of the program		x			

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	YES	SOME-WHAT	NO	N/A	COMMENTS
III STUDENT INTERACTION __x_ A __ N/A					
1 Students can use the program with minimal assistance	x				
2 Students are actively involved in the program	x				
3 Students control the pace of the program	x				
4 Students can access the program "menu(s)" to change activities.		x			By requesting "HELP"
5 Students are permitted to change answers.	x				Before entering "RETURN".
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				When student response is requested.
9. Students can enter or exit the program as desired.		x			By requesting "HELP".
10 Students control the sequence of the program		x			By requesting "HELP".
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		
3 Feedback reinforces the correct responses.	x				
4 Feedback is nonthreatening.	x				
5 Program helps students understand wrong answers.	x				
6 Program gives the correct answer after a reasonable number of tries.	x				
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 measuring attainment of objectives.	x				
2 Program reports which items were missed and which were correct.	x				

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	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				Lists of multiple choice answers are long
7 Test items are clearly stated	x				
8 Test item bank is provided.			x		
VI DOCUMENTATION __X__ A __ N/A					
1 Documentation is easy to understand	x				
2 Documentation is accurate.	x				
3 Student objectives are stated.	x				In program.
4 Underlying concepts are outlined.	x				In program.
5. Skills to be developed are specified.					In program.
6 Procedures for integrating the program into the curriculum are provided.			x		
7 Follow-up activities are suggested.			x		
8 Documentation explains the intended use of support materials				x	
9 Sufficient information is provided to operate the program.	x				
VII. WORK BEHAVIORS __ A __X__ N/A					
1 Program helps students identify their vocational skills.					
2 Program promotes pride in work.					
3 Program promotes productivity					
4. Program encourages good work habits.					
5 Problem solving is encouraged.					
6 Program promotes good human relations skills.					
7 Program provides an opportunity for work satisfaction and self-fulfillment.					
8 Program encourages creativity					

	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.					

Part C: Courseware Evaluation Summary

1 SUMMARY COMMENTS

Identify strengths of the courseware   Good graphics. Clear, concise pre ntation of
information. Excellent reinforcement. User friendly. Good quest ons.

Identify weaknesses of the courseware   Listing of objectives too long. No
printout capability, Could have more print documentation.

Describe uses of the courseware in an instructional setting   Individualized instruction,
reinforcement of concepts. Classroom and informal settings such as doctor's
or nutritionist's office.

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

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	$8 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

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