## DOCUMENT RESUME

ED 372 098 TM 021 771

AUTHOR Chen, Ching-Hui; Brown, Scott W.

TITLE Results of the Computer Use Survey for School of

Education Students.

PUB DATE Apr 94

NOTE 29p.; Paper presented at the Annual Meeting of the

American Education Association (New Orleans, LA,

April 4-8, 1994).

PUB TYPE Reports - Research/Technical (143) --

Speeches/Conference Papers (150) -- Tests/Evaluation

Instruments (160)

EDRS PRICE MF01/PC02 Plus Postage.

DESCRIPTORS College Students; Computer Anxiety; Computer

Attitudes; \*Computer Uses in Education; \*Educational Technology; Education Majors; Higher Education; Large Group Instruction; Small Group Instruction; \*Student Attitudes; Surveys; \*Teacher Education; Teaching

Methods; Word Processing

## **ABSTRACT**

To gather information on the importance of current educational-technology innovations for students in the IBM Teacher Preparation Program (an integrated Bachelor's and Master's program) at the University of Connecticut's School of Education, a survey was sent to all students enrolled in the program in April 1993. Responses were received from 115 students, 93 of whom were female. Almost 95% had taken a course that taught them to use computers, with 80.5% of these courses at the college level. Approximately 56% reported that they often used computers. As teachers, 35.4% indicated that they seldom used a computer, while 27.4% used one often, and 22.1% never used one. Nearly 16% used computers often as an instructional tool. A majority (79.6%) used computers for word processing, but almost 57% did not use any computer applications to develop instruction. Subjects had the greatest degree of confidence in computer use for individualized instruction and the least confidence in computer use for large group instruction. Overall, it is evident that students are learning with and about computers. Nine figures present survey findings. An appendix presents the survey itself. (SLD)

\*



Reproductions supplied by EDRS are the best that can be made

U.S. DEPARTMENT OF EDUCATION
Office of Educational Research and Improvement EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)

- If This document has been reproduced as received from the person or organization originating it.

  Minor changes have been made to improve reproduction quality.
- Points of view or opinions stated in this docu-ment, do not necessarily represent official OERI position or policy

"PERMISSION TO REPRODUCE THIS MATERIAL HAS BEEN GRANTED BY SCOTT W. BROWN

TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)."

# **Results of the Computer Use Survey** for School of Education Students

Ching-Hui Chen and Scott W. Brown

Department of Educational Psychology

**University of Connecticut** 

Paper presented at the 1994 American Educational Research Association conference, New Orleans, LA., April 5, 1994.



# Introduction

In an effort to gather information on the importance of current educational technology innovations for the students in the IBM Teacher Preparation Program (Integrated Bachelor's and Master's Program) at the University of Connecticut's School of Education, a survey was administered to all students enrolled in the program in April 1993. The survey was developed by the UConn Bureau of Educational Research and Service (See Appendix A). The survey was completed anonymously by the students.

# Demographics

The survey was sent out to 90 juniors, 80 seniors and 15 5th-year students. Fifty-nine juniors, 46 seniors, six 5th year and 4 other majors' students returned the survey. The return rate was 60%. Among the subjects, 20 are male and 93 are female. Fifty-eight students were in the elementary program, 35 were in secondary, 15 were in special education, and 5 were from the other majors (See Figure 1).

Forty percent of students owned a computer and 78.8% had computer experience before entering the teacher education program. Approximately fifty percent of students used computers for personal productivity, 22.1% used computers for job-related productivity, and 11.5% used computers as an instructional tool (See Figure 2).

Analysis of the responses according to the student level (Junior, Senior, 5th year) failed to indicate a significant pattern of results according to the student level. Therefore, all further analyses were conducted on the total sample.



## Results

## Student Role

Almost 95% indicated that they had taken a course when they were taught to use computers and 80.5% of these course were at the college level. About 78% used computers in courses other than the computer education course, and 62.8% of these courses were not in the education field.

Seventy-seven percent used computers to complete their class work. Around 56% answered that they used computers often, and 31.9% said they seldom used computers.

About 49.6% reported that they seldom use electronic mail, and 37.2% never use E-Mail.

## Teacher Role

As teachers, 35.4% indicated that they seldom used a computer, 27.4% used often, and 22.1% never used a computer. Roughly 35% seldom used computers, 34.5% never used computers, and 15.9% used computers often as an instructional tool.

When using the computer as an instructional tool, 28.3% mostly used for the individualized instruction, and 16.8% used it for CAI (See Figure 3). With respect to the personal productivity, 79.6% used computers for word processing. Almost 57% didn't use any computer application to develop instruction. About 55% never used E-Mail and 23.9% seldom used E-Mail.

When evaluating instructional software, 36.3% considered user-friendliness as the most important issue, 28.3% considered appropriateness and 14.2% considered instructional design. Approximately 58% considered length of program the least important and 19.5% concerned cost the least important.



# Confidence in Technology

**Future Needs** 

When using computers in instructional situations, subjects showed more confidence in the individualized instruction and had least confidence in large group instruction (See Figure 4).

When using computers as a productivity tool, subjects showed the most confidence in word processing and had the least confidence in data base (See Figure 5).

In the area of computer applications and video features, subjects indicated little confidence in using computer applications and felt most confident in using videotapes (See Figure 6).

In the general sense of technology, about 35% showed some confidence in using computers and using computers as instructional tools. Around 38% felt some degree of confidence in evaluating instructional software. Only 33.6% showed some confidence in using the facilities at UCEML (University of Connecticut Educational Microcomputer Laboratory). About 50% had some confidence in CD-ROM searches (See Figure 7).

According to the current sample, 26.5% felt individualized instruction will use computers the most and distance learning/teaching will use computer the least in the future (See Figure 8). Additionally, 43.4% felt large group instruction will use computers least in the future (See Figure 9).

The majority of the sample (87.6%) would like to have instruction designed to increase their ability to use computers. The fact that the majority of the students want to increase their computer instruction is a very positive findings. Students desiring such



instruction indicates their awareness of the importance of educational technology.

Roughly 57% thought the college instructors did not effectively use computers in their classes. Almost 66% thought the professors at the School of Education often effectively use computers in their classes.

# Summary

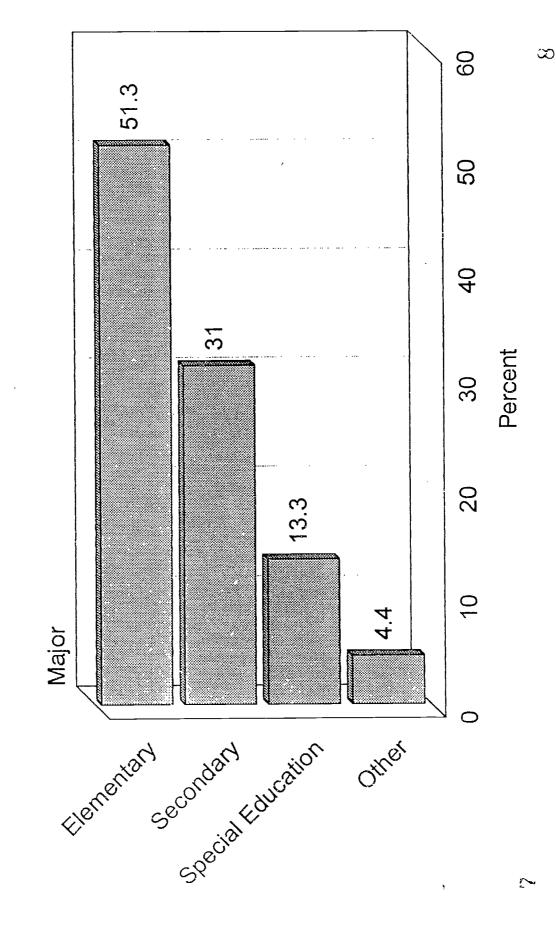
It is clear that our students are learning with and about computers in various educational settings and that we must continue to increase our own use of computers in instruction in all appropriate classes and serve as positive role models utilizing various educational technology.

The present results provide initial findings of computers in educational settings and will be represented on a regular basis to provide feedback for curricular changes in current technology-related courses.



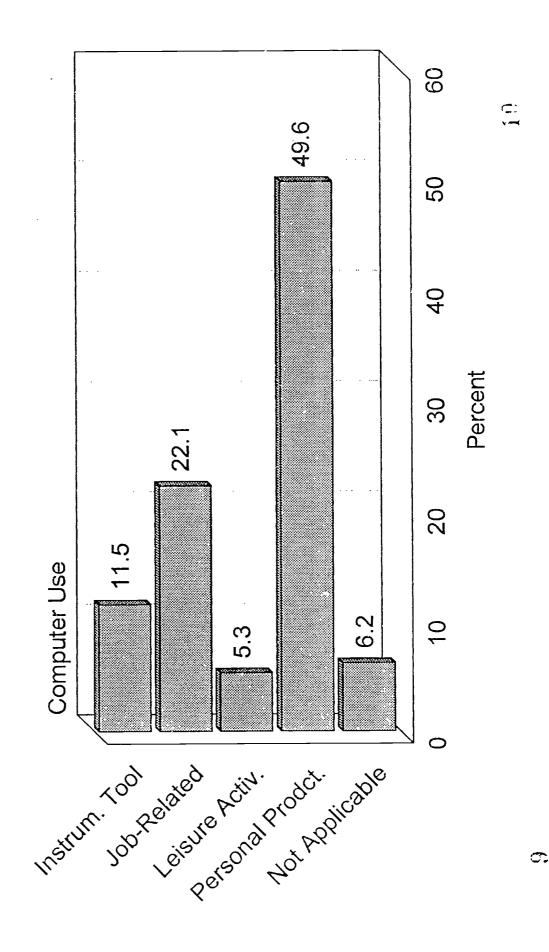
Figure 1

# Educational Program



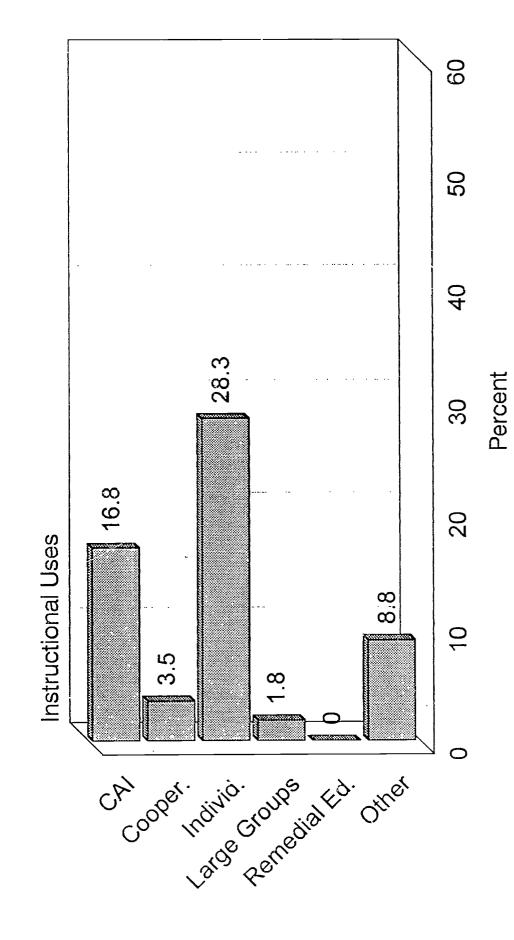


Areas of Computer Usage Figure 2





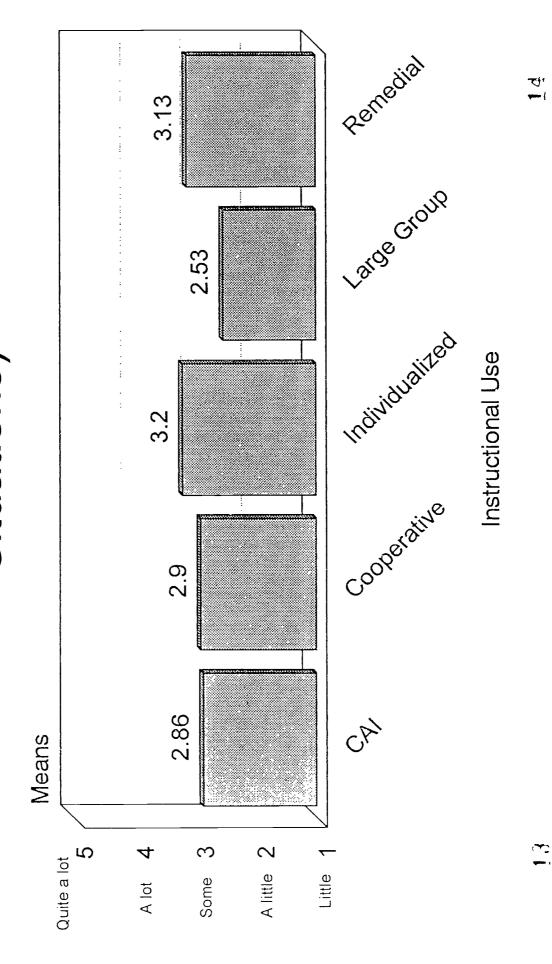
Instructional Tool Situations Figure 3





~~~

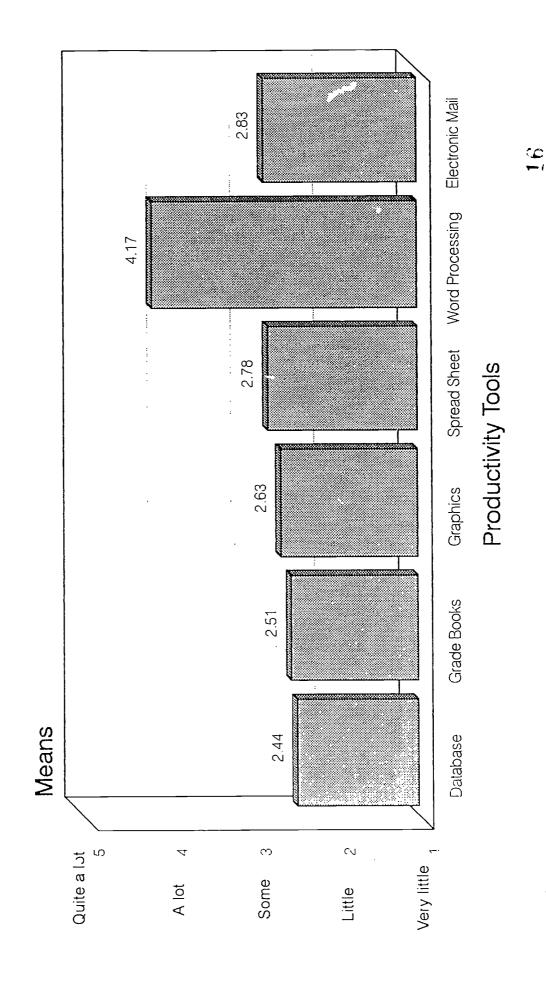
# Confidence in Technology (Instructional Situations) Figure 4





# Figure 5

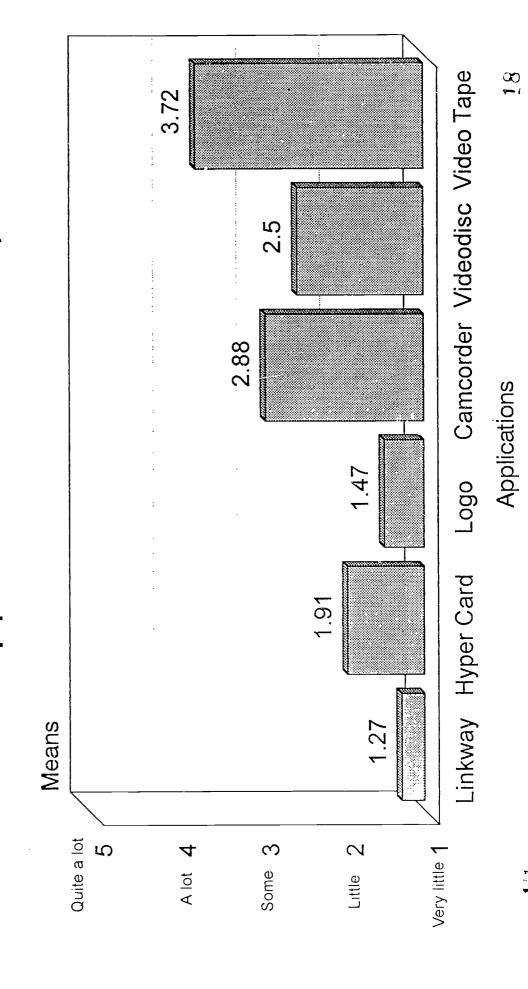
# Confidence in Technology (Productivity Tool)





# Figure 6

# Confidence in Technology (Complete Applications & Video)

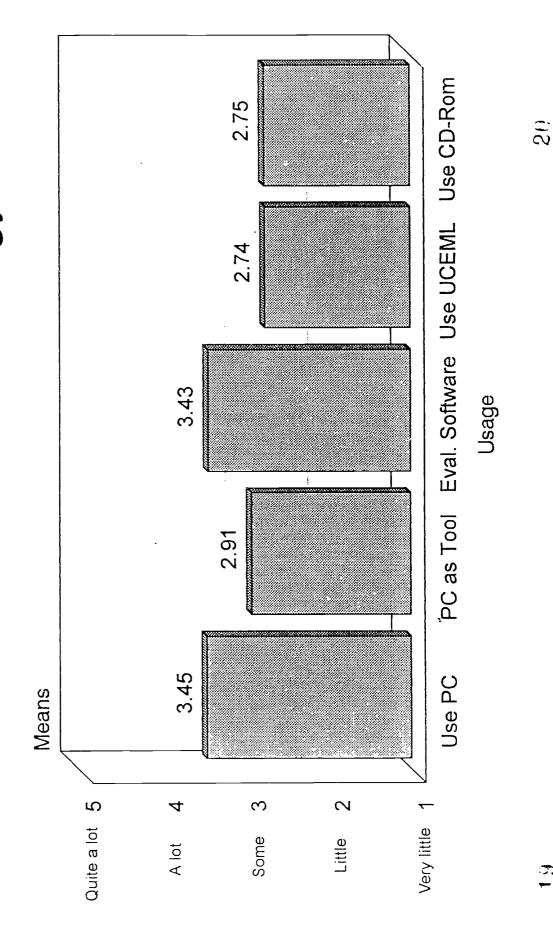


ERIC Full Text Provided by ERIC

ERIC Full Text Provided by ERIC

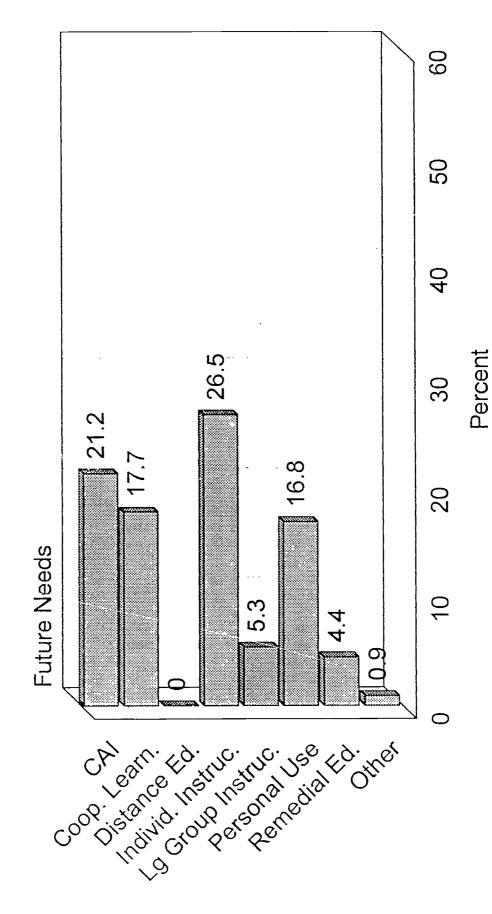
# Figure 7

# Confidence in Technology



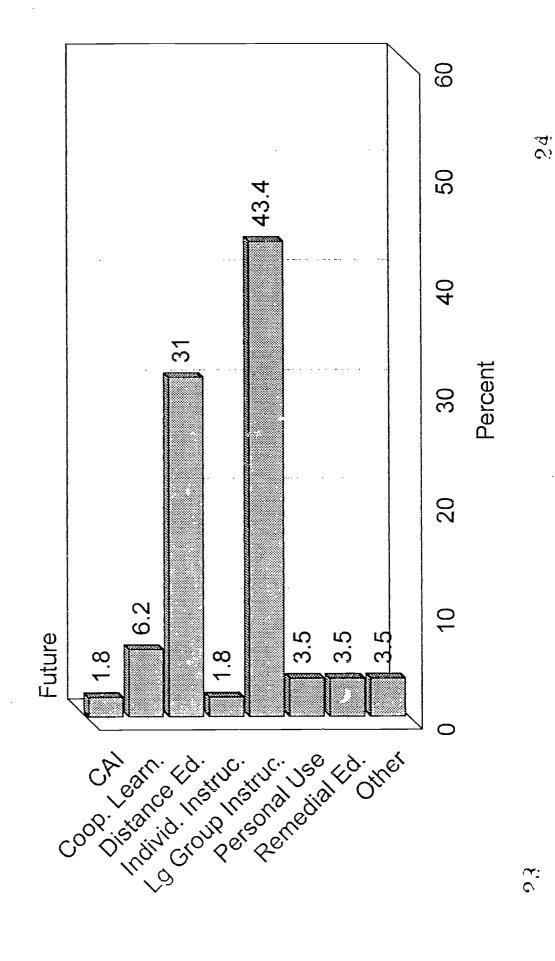
# Figure 8

# Future Needs





Future Needs (Used Least in the Future) Figure 9





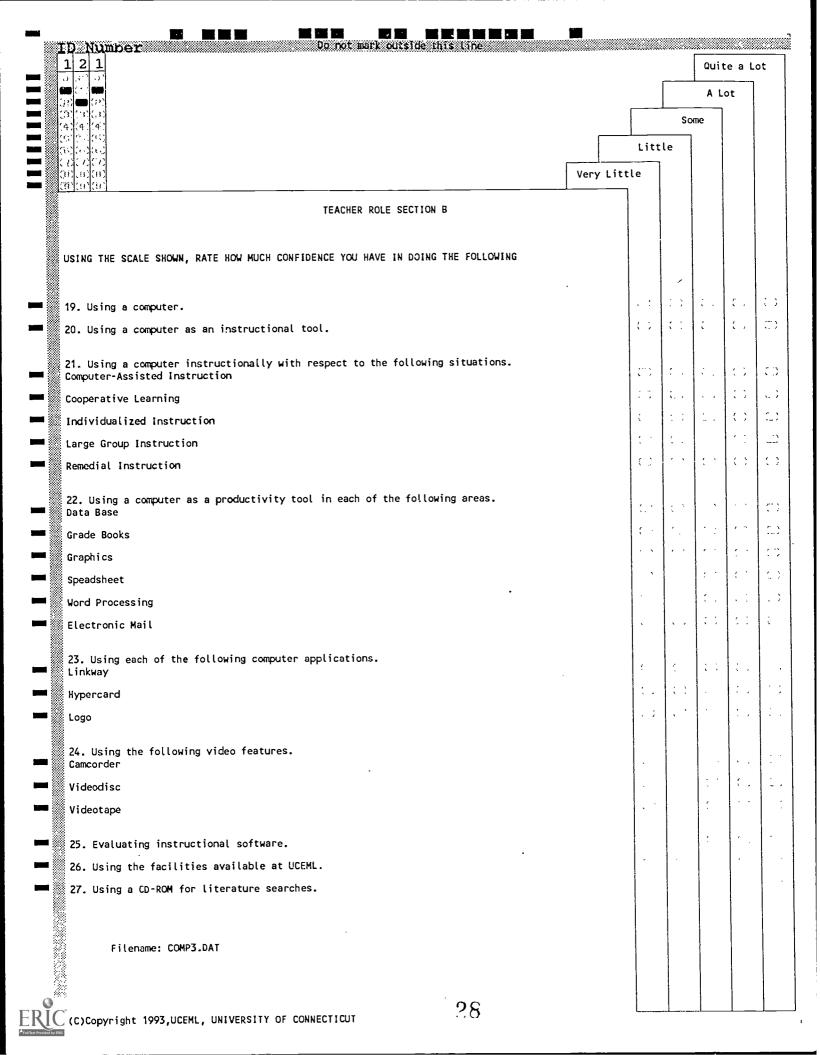
# Appendix A

Survey of Computer Use in Teacher Preparation Programs



|      |                                         | 7            | Number                                                                                                        |    |
|------|-----------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------|----|
|      | 1                                       | 2            |                                                                                                               |    |
|      |                                         | (1)          |                                                                                                               |    |
|      | 13                                      |              | (7)<br>prop                                                                                                   |    |
|      | (4                                      | (4           | 7) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4                                                                     |    |
|      | <u>(1</u> 5                             | (6)          |                                                                                                               |    |
|      |                                         | )(3)<br>)(7) | 기(단)<br>(MC7)                                                                                                 |    |
|      | (1)                                     | )<br>(B      |                                                                                                               |    |
|      | (1)                                     | )(!!         |                                                                                                               | _  |
|      | * 1                                     | HE 1         | UNIVERSITY OF COMMECTICUT SURVEY OF COMPUTER USE IN TEACHER PREPARATION PROGRAMS                              |    |
|      |                                         |              |                                                                                                               |    |
|      | 8                                       |              |                                                                                                               |    |
|      | <b>.</b> D                              | ire          | ections: Mark answers on these sheets in the space provided. Use a #2 pencil only. Mark in the                |    |
|      | 8                                       |              | ovals completely and erase any stray marks.                                                                   |    |
|      | *                                       |              |                                                                                                               |    |
|      |                                         |              | DEMOGRAPHICS                                                                                                  |    |
|      | 8                                       |              |                                                                                                               |    |
|      | ∞ (                                     | END          | DER: (.) Male (.) Female                                                                                      |    |
|      |                                         |              |                                                                                                               |    |
|      | ۱                                       | 'EAF         | R: (")Junior ()Senior ()5th Year ()Other                                                                      |    |
|      | ▓.                                      | -0116        | CATIONAL PROGRAM: (3) Elementary                                                                              |    |
|      | # C                                     | יטענ         | (_) Secondary                                                                                                 |    |
| ı 🏻  |                                         |              | (                                                                                                             |    |
|      |                                         |              | ( ) Sports<br>( ) Other                                                                                       |    |
|      |                                         |              |                                                                                                               |    |
|      | <b>#</b> 1                              | 00 '         | YOU OWN A COMPUTER? (1) Yes (1) No                                                                            |    |
| - 00 |                                         |              | YE YOU EVER USED A MICROCOMPUTER BEFORE ENTERING THE TEACHER EDUCATION PROGRAM? ( ) Yes ( ) No                |    |
|      |                                         | HAV          | E YOU EVER USED A MICROCOMPOTER BEFORE ENTERING THE TERRITOR EDGENTION THOUSAND                               |    |
| •    |                                         | IN 1         | WHICH AREA DO YOU USE THE COMPUTER MOST? CHECK ONLY ONE: ( ) Instructional Tool                               |    |
|      | 8                                       |              | <pre>     Job-Related Productivity     Leisure Activities</pre>                                               |    |
|      |                                         |              | : Personal Productivity                                                                                       |    |
|      |                                         |              | ' `Not Applicat'a                                                                                             |    |
| 3    |                                         |              |                                                                                                               |    |
|      |                                         |              |                                                                                                               |    |
|      |                                         |              |                                                                                                               |    |
|      |                                         |              | STUDENT ROLE                                                                                                  |    |
|      |                                         |              |                                                                                                               |    |
|      |                                         | 1.           | Have you ever taken a course where you where taught to use computers? : Yes : No                              |    |
|      |                                         | _            | If you were taught to use a computer, which was the highest level at which instruction occurred?              |    |
| -    | ▓                                       | ۷٠           | (, Flementary                                                                                                 |    |
|      |                                         |              |                                                                                                               |    |
|      |                                         | 3.           | As a student at UCONN, have you ever used a computer in any course other than the computer education course?  | No |
| -    |                                         |              |                                                                                                               |    |
| _    |                                         |              | If you have used a computer other than in the computer education course, was it a course in Education? (Yes ) | No |
| _    |                                         | ٠.           | 11 you have used a compacer other than the time surprise                                                      |    |
|      |                                         | 5.           | Do you currently use a computer to complete your class work at UCONN?                                         |    |
|      |                                         |              |                                                                                                               |    |
|      |                                         | 6.           | As a student, how often did you use a computer? ( `Always : `Often : : Seldom ( ) Never                       |    |
|      |                                         | _            | How often do you use electronic mail? Always Often Seldom Seldom Never                                        |    |
|      |                                         | 7.           | . How often do you use electronic mail? Always   Often   Seldom   Never                                       |    |
|      |                                         |              |                                                                                                               |    |
|      | *************************************** |              | Filename: COMPUTER.DAT                                                                                        |    |
|      | 55500                                   |              |                                                                                                               |    |

| TEACHER ROLE SECTION A  8. As a teacher, how often do you currently use a computer? Chalways Coften Caldom Chever  9. As a teacher, how often do you use a computer as an instructional tool? Chalways Coften Caldom Chever  10. When using the conquer as an instructional tool. In which one of the following situations do you use it most? Check only one. Computer-Assisted Instruction Caldomater and  | 121<br>(0)(0)(0)                         | ·                                                                                                                                              |                          |                              |                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------------|-------------------------------------------|
| TEACHER ROLE SECTION A  8. As a teacher, how often do you currently use a computer? ("Always") Often ("Seldom "Never") 9. As a teacher, how often do you use a computer as an instructional tool? "Always") Often ("Seldom "Never") 10. When using the computer as an instructional tool, in which one of the following situations do you use it most? ("Computer-Assisted Instruction "Competative tearning") 11. With respect to your personal productivity, in which area do you use the computer most? 12. In developing instruction, which computer application do you use most? ("Interface Books "Graphics") 12. In developing instruction, which computer application do you use most? ("Interface Books "Graphics") 13. As a teacher, how often do you use electronic mail? ("Always") Often ("Seldom "Never") 14. When evaluating instructional software, which one of the following areas would you consider MOST important? ("Appropriateness") Instructional Design (Length of Program "User-Friendliness") 15. When evaluating instructional software, which one of the following areas would you consider EAST important? ("Appropriateness") Instructional Design (Length of Program "User-Friendliness") 16. How often do you make use of the facilities available at UCEML? ("Always") Often ("Seldom") Never ("Never-Friendliness") 16. How often do you make use of the facilities available at UCEML? ("Always") Often ("Seldom") Never ("Never-Friendliness") 17. Do you know what facilities are available at UCEML? ("Yes No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                          |                                                                                                                                                |                          |                              |                                           |
| TEACHER ROLE SECTION A  8. As a teacher, how often do you currently use a computer?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 8881                                     |                                                                                                                                                |                          |                              |                                           |
| TEACHER ROLE SECTION A  8. As a teacher, how often do you currently use a computer? ("Always ("Often ("Seldom ("Never")) Never") Never ("Always ("Often ("Seldom ("Never")) Never") New often do you use a computer as an instructional tool? ("TAlways ("Often ("Seldom ("Never")) Never ("Computer-Assisted Instruction ("Computer Assisted Instruction ("Computer Assisted Instruction ("Computer Assisted Instruction ("Computer Assisted Instruction ("Computer Computer  | cn cn cn                                 |                                                                                                                                                |                          |                              |                                           |
| 8. As a teacher, how often do you currently use a computer? ("Always ("Often ("Seldom ("Never")) As a teacher, how often do you use a computer as an instructional tool? ("Always ("Often ("Seldom ("Never")) As a teacher, how often do you use a computer as an instruction theck only one. ("Computer-Assisted Instruction ("Instruction ("Inst |                                          |                                                                                                                                                |                          |                              |                                           |
| 9. As a teacher, how often do you use a computer as an instructional tool? ○Always ○Often ○Seldom ○Never  10. When using the computer as an instructional tool, in which one of the following situations do you use it most? Check only one. ○Computer-Assisted Instruction ○Check only one. ○Computer-Assisted Instruction ○Check only one. ○Check only   |                                          | TEACHER I                                                                                                                                      | ROLE SECTION A           |                              |                                           |
| 10. When using the computer as an instructional tool, in which one of the following situations do you use it most?  Check only one. Computer-Assisted Instruction Clarge Group Instruction Clarge Grade Books Clarge Gra | 8. As a teacher, how                     | often do you currently use a com                                                                                                               | puter? ( ) Always ( )    | Often ()Seldo                | m ( ) Never                               |
| Check only one.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 9. As a teacher, how                     | often do you use a computer as a                                                                                                               | n instructional tool?    | CD Always CD Of              | ten () Seldom () Never                    |
| Data Base   Grade Books   Gother   Goth   | 10. When using the co<br>Check only one. | (_) Computer-Assisted Instruction (_) Cooperative Learning (_) Individualized Instruction (_) Large Group Instruction (_) Remdeial Instruction | in which one of the fol  | llowing situations           | s do you use it most?                     |
| Grade Books   Graphics   Speadsheets   Spe   | 11. With respect to y                    | your personal productivity, in wh                                                                                                              | ich area do you use the  | computer most?               | se                                        |
| Sund Processing   Other                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                          |                                                                                                                                                |                          | ( ) Grade Bo<br>( ) Graphics | ooks<br>s                                 |
| Clugo Clother Clogo Clogo Clother Clogo Clother Clogo Clother Clogo Clo  |                                          |                                                                                                                                                | ·                        | ( ) Word Pro                 |                                           |
| ☐ Logo ☐ Other ☐ None of the above  13. As a teacher, how often do you use electronic mail? ☐ Always ☐ Often ☐ Seldom ☐ Never  14. When evaluating instructional software, which one of the following areas would you consider MOST important? ☐ Adaptability ☐ Appropriateness ☐ Cost ☐ Instructional Design ☐ Length of Program ☐ User-Friendliness  15. When evaluating instructional software, which one of the following areas would you consider LEAST important? ☐ Adaptability ☐ Appropriatness ☐ Cost ☐ Instructional Design ☐ Length of Program ☐ User-Friendliness  16. How often do you make use of the facilities available at UCEML? ☐ Always ☐ Often ☐ Seldom ☐ Never  17. Do you know what facilities are available at UCEML? ☐ Yes ☐ No  18. Have you ever used the CD-ROM for literature searches at the library? ☐ Yes ☐ No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 12. In developing ins                    | struction, which computer applica                                                                                                              | tion do you use most?(   | C Linkway                    |                                           |
| 13. As a teacher, how often do you use electronic mail? Always (Often Seldom Never)  14. When evaluating instructional software, which one of the following areas would you consider MOST important?    Adaptability Appropriateness Cost   Instructional Design   Length of Program   User-Friendliness     15. When evaluating instructional software, which one of the following areas would you consider LEAST important?   Adaptability   Appropriateness   Cost   Instructional Design Length of Program   User-Friendliness     16. How often do you make use of the facilities available at UCEML?   Always   Often   Seldom Never     17. Do you know what facilities are available at UCEML?   Yes   No     18. Have you ever used the CD-ROM for literature searches at the library?   Yes   No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          |                                                                                                                                                |                          | Cogo<br>Cother               |                                           |
| 14. When evaluating instructional software, which one of the following areas would you consider MOST important?    Adaptability   Appropriateness   Cost   Instructional Design   Length of Program   User-Friendliness     15. When evaluating instructional software, which one of the following areas would you consider LEAST important?   Adaptability   Appropriatness   Cost   Instructional Design   Length of Program   User-Friendliness     16. How often do you make use of the facilities available at UCEML?   Always   Often   Seldom   Never     17. Do you know what facilities are available at UCEML?   Yes   No     18. Have you ever used the CD-ROM for literature searches at the library?   Yes   No     Filename: COMP2.DAT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                          |                                                                                                                                                |                          |                              |                                           |
| Adaptability Appropriateness Cost Instructional Design Length of Program User-Friendliness  15. When evaluating instructional software, which one of the following areas would you consider LEAST important? Adaptability Appropriatness Cost Instructional Design Length of Program User-Friendliness  16. How often do you make use of the facilities available at UCEML? Always Often Seldom Never  17. Do you know what facilities are available at UCEML? Yes: No  18. Have you ever used the CD-ROM for literature searches at the library? Yes No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                          |                                                                                                                                                |                          |                              |                                           |
| ; Instructional Design { Length of Program                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          |                                                                                                                                                | -                        | :                            | `Adaptability<br>`Appropriateness         |
| Ser-Friendliness   Seldom      |                                          |                                                                                                                                                |                          |                              | Instructional Design                      |
| Adaptability Appropriatness Cost Instructional Design Length of Program User-Friendliness  16. How often do you make use of the facilities available at UCEML? Always Often 17. Do you know what facilities are available at UCEML? Yes: No  18. Have you ever used the CD-ROM for literature searches at the library? Yes No  Filename: COMP2.DAT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                          |                                                                                                                                                |                          |                              |                                           |
| Instructional Design Length of Program Cuser-Friendliness  16. How often do you make use of the facilities available at UCEML? Always Often Seldom Never  17. Do you know what facilities are available at UCEML? Yes No  18. Have you ever used the CD-ROM for literature searches at the library? Yes No  Filename: COMP2.DAT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 15. When evaluating                      | instructional software, which one                                                                                                              | e of the following areas |                              | ∵Adaptability<br>∵Appropriatness          |
| 17. Do you know what facilities are available at UCEML? Yes : No  18. Have you ever used the CD-ROM for literature searches at the library? Yes No  Filename: COMP2.DAT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                          |                                                                                                                                                |                          | :                            | Instructional Design<br>Length of Program |
| 18. Have you ever used the CD-ROM for literature searches at the library? Yes No Filename: COMP2.DAT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 16. How often do you                     | ı make use of the facilities avai                                                                                                              | lable at UCEML? / ; A    | lways : 'Often               | : Seldom . Never                          |
| Filename: COMP2.DAT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 17. Do you know what                     | ; facilities are available at UCE                                                                                                              | ML? : Yes : No           |                              |                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 18. Have you ever us                     | ed the CD-ROM for literature sea                                                                                                               | rches at the library?    | ´Yes No                      |                                           |
| 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Filename: COM                            | 1P2.DAT                                                                                                                                        |                          |                              |                                           |
| brace                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                          |                                                                                                                                                |                          |                              |                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |                                                                                                                                                | 27                       |                              |                                           |
| (C)Copyright 1993,UCEML, UNIVERSITY OF CONNECTICUT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (C)Copyright 1993,UC                     | EML, UNIVERSITY OF CONNECTICUT                                                                                                                 |                          |                              |                                           |



| <b>***</b> | e G          | ×N                | uml             | 201  | <b>#</b>         | ****      |                |                                         |                      | Do                  | not m    | ark out | side th | กร (ก  | ne          |       |            |              |   |        |       |
|------------|--------------|-------------------|-----------------|------|------------------|-----------|----------------|-----------------------------------------|----------------------|---------------------|----------|---------|---------|--------|-------------|-------|------------|--------------|---|--------|-------|
|            | 1            | 2                 | 1               |      | <b>-</b> 2000000 | ********* |                | 000000000000000000000000000000000000000 | agus agustanan earan | ************        |          |         |         | ~~~~~  | *******     |       | ********** | ************ |   |        |       |
| ░          | <del>.</del> | (1) (1)           | <u></u>         |      |                  |           |                |                                         |                      |                     |          |         |         |        |             |       |            |              |   |        |       |
|            |              | 1)                |                 |      |                  |           |                |                                         |                      |                     |          |         |         |        |             |       |            |              |   |        |       |
| ▓          | E)           | <b>.</b>          | e)              |      |                  |           |                |                                         |                      |                     |          |         |         |        |             |       |            |              |   |        |       |
|            | <u> </u>     | 33)C              | 3)              |      |                  |           |                |                                         |                      |                     |          |         |         |        |             |       |            |              |   |        |       |
| ▓          | Œ)           | 4)(               | <del>4</del> .) |      |                  |           |                |                                         |                      |                     |          |         |         |        |             |       |            |              |   |        |       |
|            | (23)<br>(23) | 52) (1<br>153) (1 |                 |      |                  |           |                |                                         |                      |                     |          |         |         |        |             |       |            |              |   |        |       |
| ▓          | (2)          | 2)(               | 7)              |      |                  |           |                |                                         |                      |                     |          |         |         |        |             |       |            |              |   |        |       |
| ░          | (0)          | 6)(               | (H)             |      |                  |           |                |                                         |                      |                     |          |         |         |        |             |       |            |              |   |        |       |
| ▓          | (8)          | (8)               | 8)              |      |                  |           |                |                                         |                      |                     | _        |         | _       |        |             |       |            |              |   | _      |       |
|            |              |                   |                 |      |                  |           |                |                                         |                      |                     |          |         |         |        |             |       |            |              |   |        |       |
|            |              |                   |                 |      |                  |           |                |                                         |                      |                     |          |         |         |        |             |       |            |              |   |        |       |
|            |              |                   |                 |      |                  |           |                |                                         |                      | FI                  | UTURE !  | NEEDS   |         |        |             |       |            |              |   |        |       |
|            |              |                   |                 |      |                  |           |                |                                         |                      |                     |          |         |         |        |             |       |            |              |   |        |       |
|            |              |                   |                 |      |                  |           |                | •                                       |                      |                     |          |         |         |        |             |       |            |              |   |        |       |
| ▓          | 28.          | . As              | 8               | teac | her              | , in      | n which        | n situa                                 | tion do              | you th              | ink you  | u will  | use the | comp   | uter :      | MOST  | in the     | future?      |   |        |       |
| ×          |              | Cr                | ieck            | ont  | у о              | ne.       | (_)(           | computer<br>Cooperat                    | ··ASSIS              | ted Inst            | tructio  | on      |         |        |             |       |            |              |   |        |       |
|            |              |                   |                 |      |                  |           |                |                                         |                      | arning<br>ing/Teac  | china    |         |         |        |             |       |            |              |   |        |       |
|            |              |                   |                 |      |                  |           | (")1           | Individu                                | ualized              | Instruc             | ction    |         |         |        |             |       |            |              |   |        |       |
|            |              |                   |                 |      |                  |           |                |                                         |                      | structio            |          |         |         |        |             |       |            |              |   |        |       |
|            |              |                   |                 |      |                  |           | CD F           | ersonal                                 | Produ                | ctivity             |          |         |         |        |             |       |            |              |   |        |       |
|            |              |                   |                 |      |                  |           |                | Remedia                                 | lInstr               | uction              |          |         |         |        |             |       |            |              |   |        |       |
|            |              |                   |                 |      |                  |           | (., ) <b>(</b> | Other                                   |                      |                     |          |         |         |        |             |       |            |              |   |        |       |
|            |              |                   |                 |      |                  |           |                |                                         |                      |                     |          |         |         |        |             |       |            |              |   |        |       |
|            |              |                   |                 |      |                  |           |                |                                         |                      |                     |          |         |         |        |             |       |            |              |   |        |       |
|            |              |                   |                 |      |                  |           |                |                                         |                      |                     |          |         |         |        |             |       |            |              |   |        |       |
|            |              |                   |                 |      |                  |           |                |                                         |                      |                     |          |         |         |        |             |       |            |              |   |        |       |
|            |              |                   |                 |      |                  |           |                |                                         |                      |                     |          |         |         |        |             |       |            |              |   |        |       |
|            | 29           | . A               | s a             | tead | cher             | , in      | n whic         | h situa                                 | tion do              | o you th            | ink yo   | u will  | use the | e comp | xuter       | LEAST | I in th    | e future     | ? |        |       |
|            |              | C                 | heck            | on   | ly (             | ne.       | $\subseteq$    | Compter                                 | -Assist              | ed Inst             | ruct i o | n       |         |        |             |       |            |              |   |        |       |
|            |              |                   |                 |      |                  |           |                | Coopera                                 |                      | earning<br>ning/Tea | china    |         |         |        |             |       |            |              |   |        |       |
|            |              |                   |                 |      |                  |           | (')            | Individ                                 | ualized              | ing/rea             | ction    |         |         |        |             |       |            |              |   |        |       |
|            |              |                   |                 |      |                  |           |                |                                         |                      | nstructi            |          |         |         |        |             |       |            |              |   |        |       |
|            |              |                   |                 |      |                  |           | ()             | Persona                                 | l Produ              | ctivity             | •        |         |         |        |             |       |            |              |   |        |       |
|            |              |                   |                 |      |                  |           |                | Remedia                                 | l Instr              | uction              |          |         |         |        |             |       |            |              |   |        |       |
|            |              |                   |                 |      |                  |           | (")            | Other                                   |                      |                     |          |         |         |        |             |       |            |              |   |        |       |
|            |              |                   |                 |      |                  |           |                |                                         |                      |                     |          |         |         |        |             |       |            |              |   |        |       |
|            |              |                   |                 |      |                  |           |                |                                         |                      |                     |          |         |         |        |             |       |            |              |   |        |       |
|            |              |                   |                 |      |                  |           |                |                                         |                      |                     |          |         |         |        |             |       |            |              |   |        |       |
|            |              |                   |                 |      |                  |           |                |                                         |                      |                     |          |         |         |        |             |       |            |              |   |        |       |
|            |              |                   |                 |      |                  |           |                |                                         |                      |                     |          |         |         |        |             |       |            |              |   |        |       |
|            | 30           | ). W              | oulo            | yo t | u l              | ike t     | to hav         | ve insti                                | ruction              | designe             | ed to i  | increas | e your  | abili  | ty to       | use   | compute    | ers          |   |        |       |
|            |              | IT                | юге             | eff  | ect              | ively     | γ?             | ( ) Yes                                 | / No                 |                     |          |         |         |        |             |       |            |              |   |        |       |
|            |              |                   |                 |      |                  |           |                |                                         |                      |                     |          |         |         |        |             |       |            |              |   |        |       |
|            |              |                   |                 |      |                  |           |                |                                         |                      |                     |          |         |         |        |             |       |            |              |   |        |       |
|            |              |                   |                 |      |                  |           |                |                                         |                      |                     |          |         |         |        |             |       |            |              |   |        |       |
|            |              |                   |                 |      |                  |           |                |                                         |                      |                     |          |         |         |        |             |       |            |              |   |        |       |
|            |              |                   |                 |      |                  |           |                |                                         |                      |                     |          |         |         |        |             |       |            |              |   |        |       |
|            |              | l                 | n v             | OUL  | col              | l ege     | inst           | ructors                                 | (other               | than S              | chool (  | of Educ | ation F | roies  | sors)       | effe  | ctively    | y use        |   |        |       |
| 1          | ~            |                   | omp             | uter | s i              | n the     | eir c          | lasses.                                 | ,                    | Always              |          | Someti  | mes     | ) Seld | iom         | (")   | Never      |              |   |        |       |
|            |              |                   | .1              |      |                  |           |                |                                         |                      | •                   |          |         |         |        | ٠,١         |       |            |              |   |        |       |
|            |              |                   |                 |      |                  |           |                |                                         |                      |                     |          |         |         |        |             |       |            |              |   |        |       |
|            |              |                   |                 |      |                  |           |                |                                         |                      |                     |          |         |         |        |             |       |            |              |   |        |       |
|            | Š            |                   |                 |      |                  |           |                |                                         |                      |                     |          |         |         |        |             |       |            |              |   |        |       |
|            |              |                   |                 |      |                  |           |                |                                         |                      |                     |          |         |         |        |             |       |            |              |   |        |       |
|            |              |                   |                 |      | C =1             | !         | ar el          |                                         | Docte                | 0000 Cf             | forti    | oly uso | COMPLI  | tore : | n tha       | ic cl | 2022       |              |   |        |       |
| . 8        | § 37         | ۷. [              | ю у             | our  | sch              | 00 L      | or Ed          | ucation                                 | Protes               | ssors ef            | 160010   | ery use | , comba | cersil | n the       | avs   |            | Sometime     | s | Seldom | Never |
|            |              |                   |                 |      |                  |           |                |                                         |                      |                     |          |         |         |        | , , , , , , | ., -  |            |              |   |        |       |
| 8          | 8            |                   |                 |      |                  |           |                |                                         |                      |                     |          |         |         |        |             |       |            |              |   |        |       |