

SWEPT
PRE-TEACHING SURVEY
(COMPARISON)

I. YOUR INSTRUCTIONAL PRACTICES

Questions 1 through 11 ask you to reflect on your instructional practices in a specified course. Please think about the class in which student assessments are being administered and provide information on your approach to teaching that course during the **MOST RECENT SCHOOL TERM**. Please write the title of this course (e.g., Algebra I, Biology, etc.) in the space provided.

Title of course _____

1. In this target course, how much emphasis did you give to each of the following goals or objectives? (Circle one number on each line.)

	None	Minor	Moderate	Major
a. Integrating the course curriculum with other subjects or fields of study	1	2	3	4
b. Teaching facts, rules, or vocabulary	1	2	3	4
c. Showing the importance of the subject in everyday life	1	2	3	4
d. Increasing students' interest in the subject and in pursuing further study	1	2	3	4
e. Encouraging students to explore alternative explanations or methods for solving problems.....	1	2	3	4
f. Preparing students for taking standardized tests in the subject.....	1	2	3	4
g. Fully covering the course curriculum as prescribed by the school/district/state	1	2	3	4
h. In-depth study of selected topics or issues, as opposed to exposure to a broad range of topics.....	1	2	3	4
i. Understanding the theoretical concepts and ideas underlying scientific or mathematical applications....	1	2	3	4

2. Approximately how often did you use each of the following teaching methods in this course? (Circle one number on each line.)

	Never	1-2 times a month	1-2 times a week	Almost every class	Every class
a. Lecture or talk to the whole class	1	2	3	4	5
b. Teacher-led whole class discussions	1	2	3	4	5
c. Students responding orally to questions on subject matter covered in class or homework.....	1	2	3	4	5
d. Student-led whole-group discussions or presentations	1	2	3	4	5
e. Students working together in cooperative groups.....	1	2	3	4	5
f. Reviewing homework or other assignments	1	2	3	4	5

3. Approximately how often did you have students engage in the following learning activities in this course?
(Circle one number on each line.)

	Never	1-2 times a month	1-2 times a week	Almost every class	Every class
a. Work on hands-on activities (e.g., doing lab activities or using manipulatives).....	1	2	3	4	5
b. Reflect on course material by writing in a notebook or journal.....	1	2	3	4	5
c. Use calculators or computers for learning, practicing skills, or solving problems	1	2	3	4	5
d. Work individually on written work or assignments in a workbook or textbook.....	1	2	3	4	5
e. Critique/evaluate their own or other students' class work or homework.....	1	2	3	4	5
f. Consider a real-world problem relevant to the course and develop a plan to address it	1	2	3	4	5
g. Use primary sources (e.g., academic or professional journals) to investigate current issues or new developments in math, science, or technology.....	1	2	3	4	5
h. Listen to guest speakers or go on field trips relevant to the material studied in class.....	1	2	3	4	5
i. Investigate possible career opportunities in science, mathematics, or technology.....	1	2	3	4	5
j. Design or implement their own scientific investigation, mathematical theory or proof	1	2	3	4	5
k. Use "state-of-the-art" equipment or technologies (<i>Specify types</i>)	1	2	3	4	5

4. On average, approximately what percent of your planning and preparation time for this course did you spend on each of the following activities? *(Circle one number on each line.)*

	0%	1 - 9 %	10 - 19%	20 - 29%	30 - 49%	50% or more
a. Revising current lessons/curriculum units.....	1	2	3	4	5	6
b. Creating new lessons/curriculum units.....	1	2	3	4	5	6
c. Contacting community resources, including making arrangements for speakers, tours, etc.	1	2	3	4	5	6
d. Using the Internet to access materials	1	2	3	4	5	6
e. Using the Internet to network with colleagues.....	1	2	3	4	5	6
f. Consulting with experts or professional scientists/mathematicians	1	2	3	4	5	6
g. Using a reflective teaching journal.....	1	2	3	4	5	6
h. Learning to use Science or Mathematics Kits.....	1	2	3	4	5	6
i. Improving computer and/or software skills.....	1	2	3	4	5	6
j. Writing grants to secure funding for new programs and/or equipment	1	2	3	4	5	6
k. Interacting the other teachers at your school to coordinate lessons/activities.....	1	2	3	4	5	6
l. Responding to e-mail you receive from students.....	1	2	3	4	5	6

5. During a typical week, approximately how much time did you spend outside of regular school hours on planning and preparing for teaching this course?

Number of hours _____

6. Which textbook (or commercially prepared workbook) constitutes the primary resource that you use in this course?

NOTE: If you use NO textbook or workbook in this course, skip to Question 12.)

TITLE: _____

AUTHOR: _____

PUBLISHER: _____

PUBLICATION DATE/EDITION: _____ / _____

7. Approximately what percentage of this textbook/workbook did you, or do you *typically*, "cover" in this course? _____%

8. Did/do you use the tests that the publishers included with the textbook/workbook? (*Circle only one.*)

Rarely or never1

Sometimes2

Frequently3

9. Please give your opinion about each of the following statements related to this textbook/workbook. (*Circle one number on each line.*)

This textbook:	Strongly disagree	Disagree	Not sure	Agree	Strongly agree
a. Is at a reading level that is appropriate for most of the students taking this course	1	2	3	4	5
b. Helps develop problem-solving skills.....	1	2	3	4	5
c. Provides good review questions and problem sets ..	1	2	3	4	5
d. Explains concepts clearly	1	2	3	4	5
e. Provides challenging suggestions for projects, further reading, and other assignments	1	2	3	4	5
f. Covers the right range of topics	1	2	3	4	5
g. Satisfactorily covers topics in depth.....	1	2	3	4	5
h. Makes interdisciplinary connections between subject areas	1	2	3	4	5
i. Is considered interesting by most students taking this course.....	1	2	3	4	5
j. Other (<i>specify</i>) _____	1	2	3	4	5

10. If you disagreed with any of the items in question 9, above, please briefly describe the problems you see with this textbook/workbook.

11. To what extent did you use each of the following types of assessment to determine student progress and achievement in this course? (*Circle one number on each line.*)

	Not at all	Slight extent	Moderate extent	Great extent
a. Pre-tests before beginning a new unit.....	1	2	3	4
b. Short-answer tests (e.g., multiple choice, true/false, fill-in-the-blank).....	1	2	3	4
c. Tests requiring open-ended responses (e.g., descriptions, justifications, explanations)	1	2	3	4
d. Student portfolios	1	2	3	4
e. Class participation/group discussion.....	1	2	3	4
f. Student presentations/projects.....	1	2	3	4
g. Hands-on performance measurements	1	2	3	4
h. Written explanations of thought processes (e.g., journals, essays)	1	2	3	4

II. YOUR ATTITUDES AND BELIEFS ABOUT TEACHING

12. Please indicate how confident you feel about the following aspects of your teaching. If you are a science teacher, answer for how you feel about teaching science. If you are a mathematics teacher, answer for how you feel about teaching mathematics. (*Circle one number on each line.*)

	Not at all	Slightly confident	Moderately confident	Very confident
a. Your knowledge about the application of the subject to everyday life	1	2	3	4
b. Your ability to advise students about job opportunities in the subject area	1	2	3	4
c. Your ability to advise students about opportunities to receive further training/experience in the subject area.....	1	2	3	4
d. Your ability to use inquiry-based instructional practices	1	2	3	4
e. Your ability to determine the depth, breadth, and pace of coverage of material in your teaching.....	1	2	3	4
f. Your ability to develop appropriate and authentic assessment tools	1	2	3	4
g. Your ability to supervise research projects of your students	1	2	3	4
h. Your ability to mentor beginning teachers	1	2	3	4
i. Your ability to make presentations at teacher inservices or professional meetings	1	2	3	4
j. Your ability to incorporate technology (computers, the Internet, laser discs, etc.) into your teaching.....	1	2	3	4

13. To what extent do you feel each of the following statements describes the kind of teacher you are?

	Not at all	Slight extent	Moderate extent	Great extent
a. I am motivated to expand on the instructional techniques that I use	1	2	3	4
b. I am motivated to change the way I use hands-on materials and manipulatives in my teaching.....	1	2	3	4
c. I am motivated to use more technology in my teaching	1	2	3	4
d. I consider myself a "subject matter expert" in my main teaching field.....	1	2	3	4
e. I consider preparing students for the kinds of expectations they will encounter in a work setting as an important part of my job	1	2	3	4
f. I believe I can truly make a difference in the lives of my students in terms of their choices for further education and their careers.....	1	2	3	4

14. What do you consider to be your greatest strengths as a teacher? Please be as specific as you can. Think about both areas of content mastery and instructional strategies when answering this question.

15. What areas of your teaching do you think need improvement? Think about both areas of content mastery and instructional strategies when answering this question.

III. YOUR BACKGROUND AND EXPERIENCE

16. Including this school year, how many years have you been employed as a teacher? (*Include years spent teaching both full and part time, and in both public and private schools.*)

In total..... _____

As a math teacher _____

As a science teacher..... _____

In a high school..... _____

At this school..... _____

17. Do you have a teaching certificate in the state and/or city in which you are currently teaching?

- Yes..... 1
- No..... 2 (*Skip to Question 20.*)

18. On the line below, please write in the field(s) in which you have a teaching certificate.

19. What type of teaching certificate do you hold? (*Circle only one.*)

- a. Regular or standard state certificate, or advanced professional certificate..... 1
- b. Provisional or other type of certificate given to persons who are still participating in what the state calls an "alternative certification program" 2
- c. Probationary certificate (the initial certificate issued after satisfying all requirements except the completion of a probationary period) 3
- d. Temporary certificate (requires some additional college coursework and/or student teaching before regular certification can be obtained) 4
- e. Emergency certificate or waiver (issued to persons with insufficient teacher preparation who must complete a regular certification program in order to continue teaching) 5

20. During the past 12 months, have you participated in any professional development activities that focused on the following topics? If yes, how many hours did you spend on the activity?

	Participated?		Approximate number of hours			
	Yes	No	8 or less	9-16	17-32	33 or more
a. In-depth study of your main subject area (i.e., science or mathematics)	1	2	1	2	3	4
b. Methods of teaching your main subject area.	1	2	1	2	3	4
c. Applications of technology to education.....	1	2	1	2	3	4
d. Other related areas (<i>specify</i>).....	1	2	1	2	3	4

21. During the last 12 months, have you been involved in any of the following activities related to your teaching? (*Circle one number on each line.*)

	Yes	No
a. Served as department chair	1	2
b. Developed or piloted new curricula	1	2
c. Held a leadership position in a state or national professional organization	1	2
d. Formally mentored beginning teacher(s)	1	2
e. Supervised student teacher(s).....	1	2
f. Conducted inservices or workshops for teachers.....	1	2
g. Made observational visits to other schools	1	2
h. Made presentations to non-teaching groups (e.g., school board, parents, community groups)	1	2
i. Conducted individual or collaborative research on a topic of interest to you.....	1	2
j. Represented the school or district on an instructional reform project.....	1	2
k. Other (<i>specify</i>)	1	2

22. Have you participated in any professional development activities either in a laboratory, research, or industrial setting in the last 5 years? If so, please describe this experience by providing the following information in the table below.

- The name of the program, and sponsoring agency;
- The type of setting in which you worked (i.e., government, industry , laboratory, or university);
- The date of your participation, and the duration of the program; and
- The type of work that you did.

Note: If you have not participated in any such activities, go on to Question 23.

Name of Program & Sponsoring Agency	Type of Setting	Dates and Duration of Program	Type of work
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

23. During the last 5 years, have you been employed in a laboratory, research, or industrial setting that was relevant to your work as a science or mathematics teacher? If yes, please describe this work experience in the space below.

- Yes..... 1
 No..... 2

24. Please describe your postsecondary education by completing the chart below.

Degree(s) held?	Year	Institution	Major	Minor
Bachelor's Y N	_____	_____	_____	_____
Master's Y N	_____	_____	_____	_____
Doctorate Y N	_____	_____	_____	_____
Other Y N (specify) _____	_____	_____	_____	_____

25. Are you currently working towards an advanced degree? If yes, please indicate the degree you are pursuing, the institution, and the area in which you are specializing.

- Yes.....1 No..... 2

Degree: _____ Institution: _____ Specialization: _____

26. Please estimate the number of credit hours, if any, you have earned beyond your highest degree.

Approximate number of credit hours _____

27. In order to get a GENERAL SENSE of your educational background, please place a check next to the titles of courses you have taken for credit as part of your postsecondary education. Do not be concerned about whether the titles match the classes you took, or if you do not have total recall of this information.

MATHEMATICS COURSES

- | | | | |
|------------------------------|--------------------------------|-----------------------------|-----------------------------------|
| A. <input type="checkbox"/> | Abstract Algebra | K. <input type="checkbox"/> | Discrete Math |
| B. <input type="checkbox"/> | Algebra for Teachers | L. <input type="checkbox"/> | Finite Math |
| C. <input type="checkbox"/> | Analytic Geometry | M. <input type="checkbox"/> | History/Foundations of Math |
| D. <input type="checkbox"/> | Applied Math | N. <input type="checkbox"/> | Math Appreciation/Math in Society |
| E. <input type="checkbox"/> | Business Math | O. <input type="checkbox"/> | Mathematical Modeling |
| F. <input type="checkbox"/> | Calculus | P. <input type="checkbox"/> | Number Theory |
| Fl. <input type="checkbox"/> | ___ Number of calculus courses | Q. <input type="checkbox"/> | Probability |
| G. <input type="checkbox"/> | Computer Math | R. <input type="checkbox"/> | Stochastic Processes |
| H. <input type="checkbox"/> | Data Analysis/Statistics | S. <input type="checkbox"/> | Technical/Vocational Math |
| I. <input type="checkbox"/> | Data Processing Math | T. <input type="checkbox"/> | Topology |
| J. <input type="checkbox"/> | Differential Equations | U. <input type="checkbox"/> | Trigonometry |

SCIENCE COURSES

- | | | | |
|-----------------------------|-------------------------------------|------------------------------|-----------------------------|
| A. <input type="checkbox"/> | Anatomy | O. <input type="checkbox"/> | Geology/Earth Science |
| B. <input type="checkbox"/> | Astronomy | P. <input type="checkbox"/> | Marine Biology/Oceanography |
| C. <input type="checkbox"/> | Atmospheric Science and Meteorology | Q. <input type="checkbox"/> | Microbiology/Bacteriology |
| D. <input type="checkbox"/> | Biochemistry and Biophysics | R. <input type="checkbox"/> | Neuroscience |
| E. <input type="checkbox"/> | Biology | S. <input type="checkbox"/> | Organic Chemistry |
| F. <input type="checkbox"/> | Biometrics/ Biostatistics | T. <input type="checkbox"/> | Physical Science |
| G. <input type="checkbox"/> | Biotechnology | U. <input type="checkbox"/> | Physics |
| H. <input type="checkbox"/> | Botany | V. <input type="checkbox"/> | Physiology |
| I. <input type="checkbox"/> | Cell/Molecular Biology | W. <input type="checkbox"/> | Psychology |
| J. <input type="checkbox"/> | Chemistry (General) | X. <input type="checkbox"/> | Radiation Biology |
| K. <input type="checkbox"/> | Ecology | Y. <input type="checkbox"/> | Toxicology |
| L. <input type="checkbox"/> | Environmental Science | Z. <input type="checkbox"/> | Virology |
| M. <input type="checkbox"/> | Genetics | AA. <input type="checkbox"/> | Zoology |
| N. <input type="checkbox"/> | Inorganic Chemistry | | |

EDUCATION COURSES

- | | | | |
|-----------------------------|---|-----------------------------|--|
| A. <input type="checkbox"/> | Computers/Technology in the Classroom | I. <input type="checkbox"/> | Instruction, Methods, and Materials |
| B. <input type="checkbox"/> | Curriculum and Curriculum Theory | J. <input type="checkbox"/> | Mathematics Education |
| C. <input type="checkbox"/> | Education Administration | K. <input type="checkbox"/> | School Psychology |
| D. <input type="checkbox"/> | Education/Instruction Media Design | L. <input type="checkbox"/> | Science Teacher Education |
| E. <input type="checkbox"/> | Educational Assessment, Testing and Measurement | M. <input type="checkbox"/> | Social/Historical/Philosophical Foundations of Education |
| F. <input type="checkbox"/> | Educational Psychology | N. <input type="checkbox"/> | Teacher Education: Intermediate or Secondary School |
| G. <input type="checkbox"/> | Educational Statistics | | |
| H. <input type="checkbox"/> | Evaluation and Research in Education | | |

IV. TEACHER CHARACTERISTICS

28. What is your gender?

- Male 1
- Female 2

29. Which best describes you?

- American Indian or Alaska Native 1
- Asian or Pacific Islander 2
- Black, non-Hispanic 3
- Hispanic 4
- White, non-Hispanic 5

30. In case we need to contact you concerning this questionnaire, please provide the following information:

NAME: _____

SCHOOL NAME: _____

MAIL ADDRESS: _____

E-MAIL ADDRESS: _____

FAX NUMBER: _____

SCHOOL

HOME

TELEPHONE: () _____

() _____

BEST TIME TO CALL: TIME: _____

TIME: _____

DAY: _____

DAY: _____

THANK YOU VERY MUCH FOR COMPLETING THIS SURVEY.