

I. YOUR INSTRUCTIONAL PRACTICES

Questions 1 through 15 ask you to reflect on your instructional practices in the class or classes in which student assessments are being administered. Please write the title of this course (e.g., Chemistry, Integrated Science, etc.) in the space provided. If student assessments are being administered in two different courses, please select the one for which there is a comparison teacher at your school.

Title of course			
		•	

NOTE: The duration of high school courses can vary (e.g., 1 semester, 2 semesters, or a trimester), and students' schedules may change mid-year. Therefore, please reflect on your teaching practices and experiences since you began teaching the class of students currently enrolled in this course when answering these questions.

1. In this 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 science, mathematics, 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 (Specify types)	1	2	3	4	5

4. On average, approximately what percentage 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 percent	10 -19 percent	20 -29 percent	30 - 49 percent	50 percent 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 with the other teachers at your school to coordinate lessons/activities	1	2	3	4	5	6
1.	Responding to e-mail you received from students	1	2	3	4	5	6

5.	During a typical week, approximately how much time diplanning and preparing for teaching this course?	d you spend	outside of re	gular school	hours on	
	Number of hours					
6.	Which textbook (or commercially prepared workbook) of this course?	constitutes th	ne primary re	source that y	ou used in	
	(NOTE: If you used NO textbook or workbook in thi	s course, sk	cip to questi	on 11.)		
	Title: Author: Publisher: Publication date/edition: /					
7.	Approximately what percentage of this textbook/workbook	ok did you c	over in this c	ourse?	%	
8.	Did you use the tests that the publishers included with the Rarely or never	e textbook/w	orkbook? (C	ircle only o	ne.)	
9.	Please give your opinion about each of the following state (Circle one number on each line.)		elated to this	textbook/wor	kbook.	
	This textbook: a. Is at a reading level that is appropriate for most of	Strongly disagree	Disagree	Not sure	Agree	Strongly agree
	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 clearlye. Provides challenging suggestions for projects,	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	1	2	3	•	3
	subject areas	1	2	3	4	5
	i. Is considered interesting by most students taking	1	2	2	4	_
	this course	1	2	3	4	5
	j. Other (specify)	1	2	3	4	5
10.	If you disagreed with any of the items in question 9, about have seen with this textbook/workbook.	ove, please b	riefly describ	e the problen	ns you	

			Not at all	Slight extent	Moderate extent	Great exten
	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
	a.b.c.	Course title Class period, or block Days of the week that the class meets				
	d.	Number of hours each week that the class meets _				
13.	At	any time did the student teacher take full responsibil	lity for teach	ing the clas	s?	
	Ye	s				
	110	2 (Skip to question 10.)				
				1 0		
14.	For	r how many weeks did the student teacher take over to	eaching this o	class?		
14.		r how many weeks did the student teacher take over to umber of weeks	eaching this o	class?		

II. YOUR ATTITUDES AND BELIEFS ABOUT TEACHING

16. Please indicate how confident you feel about the following aspects of your teaching **at this time**. (*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		2	2	4
0	pace of coverage of material in your teaching	1	2	3	4
f.	Your ability to develop appropriate and authentic	1	2	2	4
	assessment tools	1	2	3	4
g.	Your ability to supervise your students' research	1	2	2	4
	projects	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 disks, etc.) into				
	your teaching	1	2	3	4

17. To what extent do you feel each of the following statements describes the kind of teacher you are **at this time?** (*Circle one number on each line.*)

		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	1	2	3	1
C	materials and manipulatives in my teaching I am motivated to use more technology in my	1	2	3	4
С.	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	1	2	3	1
f	as an important part of my job I believe I can truly make a difference in the lives	1	2	3	4
1.	of my students in terms of their choices for further				
	education and their careers	1	2	3	4

18.	What do you consider to be your greatest strengths as a teacher? Please be as specific as you about both areas of content mastery and instructional strategies when answering this question	
19.	What areas of your teaching do you think need improvement? Think about both areas of con and instructional strategies when answering this question.	tent mastery
III.	YOUR SCIENCE CURRICULUM	
curi cou a ch	estions 20 and 21 ask about the science topics that you covered in this course since it began (rent class of students enrolled). Question 20 asks about some skills that might be included in tree. Question 21 provides a framework of specific content areas and categories that might be the hemistry course. Under each category is a list of one or more bulleted topics. Please indicates topics you covered in this course by placing a check on the line provided.	any science e included in
20.	The following skills might be included in any science curriculum. Please put a check next to that you covered in this course.	he skills
	 a. Interpret and draw conclusions from tables and graphs b. Understand correct use of experimental controls c. Know correct use of laboratory apparatus d. Know how to make solutions of a given concentration 	

21. The following content areas and topics might be included in a chemistry or physical science curriculum. Ple ase put a check next to the bulleted topics that you covered in this course. Check if A. Properties of Matter covered

Α.	Pro	operties of Matter	covered
	1.	Physical properties	
		Know some of the physical properties of matter	
		Know the meaning of STP	
		 Understand the interrelationships of density, volume, pressure, and 	
		temperature	
		Determine the specific heat of a substance	
		Understand Avogadro's Principle (number)	
	2.	Chemical properties	
		• Understand some chemical properties of given substances, such as carbon	
		dioxide and oxygen	
		Distinguish between chemical and physical properties (e.g., rusting and	
		combustion)	
	3.	States of matter	
		• Understand that matter can be found in different states as determined by	
		physical changes such as freezing, boiling, or evaporation	
		Interpret graphs relating to the physical properties of water	
	4.	Classification of matter	
		Understand how certain forms of matter are classified	
	5.	Solubility	
		 Define solubility and determine the factors affecting solubility, such as 	
		pressure and temperature	
		Interpret a solubility graph	
		Know the definition of a saturated solution	
		Understand how to make a molar solution	
В.	Ato	oms, Elements, and Molecules	
	1.	Atomic structure	
		Understand what constitutes an ion	
		• Identify the three basic particles of matter, their charges, and relative masses	
	2.	Symbols and formulae	
		Understand the meaning of chemical symbols and formulae	
		Know the rules necessary to write chemical formulae	
	3.	Chemical equations	
		 Understand that quantities in a chemical reaction are based on 	
		stoichiometric relationships	
		Know how to balance a chemical equation	
	4.	Periodic table	
		• Recognize that the placement of elements on the periodic table is a function	
		of their atomic structure	
	_	• Use the periodic table to predict activity and electronegativity	
	5.	Bonding	
		Differentiate between ionic and covalent bonds	
		Understand electron configurations	
		Understand the makeup of matter in terms of molecular structure and	
		attractive forces (intramolecular and intermolecular bonding)	
		• Understand the relationship between the properties of a molecule and its	
		structure	

•	Cn	emical and Nuclear Reactions
	1.	Energy and changes of state
		Understand kinetic molecular theory
		Know how changes of state impact heat content
	2.	Chemical reactions
		Recognize examples and know products of chemical reactions
		Recognize an exothermic reaction
		Understand the parameters necessary for spontaneous reactions
		Use collision theory to explain how the rate of a reaction is determined
		Use Le Chatelier's Principle to predict a shift in equilibrium
		Understand how a catalyst works
	3.	Acids, bases, and salts
		Know some characteristics of acid/base reactions
		Know how to classify a solution as acidic, basic, or neutral
	4.	Radioactivity
		 Understand the meaning of half-life and use this understanding to construct
		a graph of activity over time
		Know why fusion is not yet a viable energy source

THANK YOU VERY MUCH FOR COMPLETING THIS SURVEY.