

### Science As Inquiry: Teacher Perceptions of Science Class

The questions on this survey relate to elements of teaching practice in your science classroom.

#### SECTION 1: SCIENCE CLASSROOM

Use the following rating scale for questions 1-34: 5 = Very Often, 4 = Often, 3 = Sometimes, 2 = Seldom, 1 = Never

In your science class, how often do you have your students do the following?	Very Often	Often	Sometimes	Seldom	Never
1. Work in groups or teams	5	4	3	2	1
2. Work in groups or teams when they do science activities	5	4	3	2	1
3. Work individually	5	4	3	2	1
4. Do activities and experiments in science class	5	4	3	2	1
5. Work alone to do science activities and experiments	5	4	3	2	1
6. Design their own activities and experiments	5	4	3	2	1
7. Try activities or experiments that they design themselves	5	4	3	2	1
8. Test a hypothesis or question in their activities or experiments	5	4	3	2	1
9. Control variables when they do lab activities or experiments	5	4	3	2	1
10. Ask questions and then investigate their own questions	5	4	3	2	1
11. Make predictions about what will happen before they do activities or experiments	5	4	3	2	1
12. Set up a data table when they do activities or experiments	5	4	3	2	1
13. Make observations when they do activities or experiments	5	4	3	2	1
14. Write down their observations from an experiment	5	4	3	2	1
15. Write about the experiments that they do in a notebook, log, or journal	5	4	3	2	1
16. Write down their own information from a science experiment	5	4	3	2	1
17. Graph numbers from their experiments	5	4	3	2	1
18. Discuss the results from their experiments	5	4	3	2	1
19. Set up their own experiments or activities	5	4	3	2	1
20. Try experiments more than one time to check their results	5	4	3	2	1
21. Read about the research work that scientists do	5	4	3	2	1
22. Discuss the research work that scientists do	5	4	3	2	1
23. Discuss science articles from newspapers or magazines	5	4	3	2	1

	Very Often	Often	Sometimes	Seldom	Never
24. Go to the school library or media center to find science information	5	4	3	2	1
25. Watch and then discuss science videos	5	4	3	2	1
26. Have visitors come to class to talk about science	5	4	3	2	1
27. Go on field trips on campus (school grounds) that relate to what they do in science class	5	4	3	2	1
28. Go on field trips off campus that relate to what they do in science class	5	4	3	2	1
29. I do experiments for the class.	5	4	3	2	1
30. If activities or experiments do not appear to work as predicted, we discuss reasons why.	5	4	3	2	1
<b>Who decides what science lessons and activities are done in science class?</b>					
31. I decide what the science lessons are about.	5	4	3	2	1
32. The students in the class decide what the science lessons are about.	5	4	3	2	1
33. I decide what science activities and experiments we do.	5	4	3	2	1
34. The students in the class decide what science activities and experiments we do.	5	4	3	2	1

## SECTION 2: SCIENCE ASSIGNMENTS

Rating scale for Questions 35-44: 5 = Very Often (3 to 5 times a week), 4 = Often (1 or 2 times a week), 3 = Sometimes (1 or 2 times a month), 2 = Seldom (1 or 2 times a year), 1 = Never (not done in science class)

	Very Often	Often	Sometimes	Seldom	Never
<b>In your science class, how often do you have your students do the following?</b>					
35. How often do you give science assignments?	5	4	3	2	1
36. Do students work in groups to complete some assignments?	5	4	3	2	1
<b>What kinds of assignments do you use in your science class?</b>					
37. Students answer questions at the end of a section or chapter in the science textbook.	5	4	3	2	1
38. Students write definitions of science words.	5	4	3	2	1
39. Students do science worksheets.	5	4	3	2	1
40. Students do concept maps, mind maps, or webs.	5	4	3	2	1
41. Students do assignments that require presentations.	5	4	3	2	1

(continued)

## FORM 3.7 Continued

What kinds of assignments do you use in your science class? (continued)

	Very Often	Often	Sometimes	Seldom	Never
42. Students do assignments that require the use of a variety of resources.	5	4	3	2	1
43. Students do assignments that require projects.	5	4	3	2	1
44. Students do assignments that require them to involve people from the community.	5	4	3	2	1

## SECTION 3: TESTS AND ASSESSMENTS

Rating scale for Questions 45-58: 4 = Frequently (for most tests or assessments), 3 = Sometimes (for some tests or assessments), 2 = Seldom (for very few tests or assessments), 1 = Never (not used in science class)

How often do you have the following on tests or for assessments?

	Frequently	Sometimes	Seldom	Never
45. True-false questions	4	3	2	1
46. Multiple-choice questions	4	3	2	1
47. Matching questions	4	3	2	1
48. Fill-in-the-blank questions	4	3	2	1
49. Short-answer questions	4	3	2	1
50. Essay questions	4	3	2	1
51. Short-term products or projects (that take about 1 week to do)	4	3	2	1
52. Longer-term products or projects (that take more than 1 week to do)	4	3	2	1
53. Write reports about science	4	3	2	1
54. Maintain a science portfolio of their work	4	3	2	1
55. Make presentations about their work	4	3	2	1
56. Do concept maps, mind maps, or webs	4	3	2	1

Do you involve students in the following?

57. Use student input for design of a scoring guide (rubric) for their work	4	3	2	1
58. Use student input for decisions on how some science work is graded	4	3	2	1