

# Inquiry Observation Protocol

Date:

Day & Time:

Instructor:

# students:

Activity name/summary:

Student Behaviors						
1	Students explored phenomena or processes.	0 <sup>1</sup>	1	2	3	4
2	Students used multiple approaches <sup>2</sup> .	0	1	2	3	4
3	Students investigated or solved problems.	0	1	2	3	4
4	Students represented phenomena using a variety of means <sup>3</sup> .	0	1	2	3	4
5	Students made predictions, estimations and/or hypotheses (formally or informally).	0	1	2	3	4
6	Students devised means for testing predictions or hypotheses.	0	1	2	3	4
7	Students compared or assessed predictions, procedures, methods, hypotheses, results, or conclusions.	0	1	2	3	4
8	Students communicated relevant ideas to others using any means.	0	1	2	3	4
9	Students generated alternative solution strategies or ways of interpreting evidence.	0	1	2	3	4

Instructor Behaviors						
10	The instructor created opportunities for students to practice critical thinking <sup>4</sup> .	0	1	2	3	4
11	The instructor created opportunities for, or solicited participation of, students.	0	1	2	3	4
12	The instructor was a resource for students by providing appropriate support and guidance <sup>5</sup> .	0	1	2	3	4
14	The instructor utilized student contributions <sup>6</sup> .	0	1	2	3	4
15	The instructor created opportunities for student collaboration.	0	1	2	3	4

<sup>1</sup>0=never occurred, 1=occurred at least once, 2=occurred a few times, 3=occurred many times, 4=occurred most of the time (relative to observation period).

<sup>2</sup>Multiple approaches: formulas, graphs, pictures, words, concept maps, flowcharts, etc.

<sup>3</sup>Varied means: written words, models, drawings, verbal descriptions, formulas, skit or play, etc.

<sup>4</sup>Critical thinking: backward logic, redirecting to new feature, creating multiple correct answers, etc.

<sup>5</sup>Appropriate guidance: visit or check on all students, provide direction, guided practice, moving students forward, etc.

<sup>6</sup>Student contributions: questions, answers, comments, personal testimony, etc.

Make a tick mark for each observation of the *most descriptive* activity at the specified time. Record five observations per time interval.

Students' Activity	5	10	15	20	25	30	35	40	45	50	T
discussing data/results with each other											
listening to the instructor talk											
discussing relevant class material											
listening to a student talk											
undetermined (i.e., staring)											
looking through notes											
reading assignments or handouts											
explaining concepts to each other											
disengaged											
solving problems independently											
reflecting on their work											
responding to the instructor's questions											
asking questions of each other											
filling out worksheets											
asking questions of the instructor											
following explicit procedures											
taking notes											
drawing conclusions from evidence											
taking written tests to measure learning											
formulating questions to investigate											
verifying known phenomena											
collecting data											
reading research papers											
debating with each other											
designing ways to answer questions											
other:											