## The Expedition to the Pond

#### **Objectives**

- 1. Students will observe four samples/specimens from the pond area: a leaf, something near the water, a non-living thing, and something interesting.
- 2. Students will record their observations in their journals. (See last pages for sample.)
- 3. Students must use scientific inquiry skills, sketches and diagrams, and written expression.

## **Supplies:**

Student-made journals, pencils, color pencils, map of school grounds, baggies, hand lenses, rulers, tape measures, thermometers, and scales

#### **Procedures**

One week before:

- 1. Have students study a real life expedition, e.g., Lewis and Clark, the Space Shuttle, etc.
- 2. Study sample maps of the school for our upcoming student expedition.
- 3. Have students plan what to wear, what to bring, and what to do.
- 4. Recruit parent assistants.
- 5. Students make journals.

One day before:

- 1. Assign students to teams of four.
- 2. Gather the scientific instruments for the expedition.
- 3. Go over rules for safety, behavior, and proper treatment of the environment.
- 4. Have students check the weather forecast and decide on proper clothing.

#### Day of Expedition:

- 1. Use the map of the schoolyard.
- 2. Review the purpose of the expedition and team tasks.
- 3. Collect specimens; weigh, measure, observe, sketch, and record data.
- 4. Record any additional data in journals.

### Post expedition:

- 1. Refine information in journals; attach specimens to pages.
- 2. Display field journals and specimens.
- 3. Present the expedition results to other students.

#### **Evaluation:**

Teacher evaluates student journals using rubrics table. (See next page.)

# Science Journal Rubrics

Criteria	4	3	2	1
	Expert	Proficient	Competent	Basic
I. Use of	Data is accurate	80% of data is	70% of data is	Less than 70%
scientific	and labeled	accurate and	accurate and	of data is
inquiry skills	with correct	complete.	complete.	accurate and
records data	measurements.			complete.
asks "why"	Questions are	Questions are	Some relevant	Some relevant
questions	relevant and	relevant to	questions	questions
makes	thought-	study.		
observations	provoking.			
sees				
relationships				
II. Uses of	Specimen is	Specimen is	Some accuracy	Accuracy
sketches and	shown	shown	is shown in	lacking in
diagrams	accurately;	accurately;	size, color; little	regard to color,
	color, size, and	color, size,	use of detail	detail, size.
	extra detail	some detail		Some sketches
	evident.	evident.		missing.
III. Use of	Vivid, detailed,	Some	Little	No descriptive
written	and descriptive	descriptive	descriptive	language is
expression	language is	language is	language is	used.
	used to describe	used.	used.	
	specimen/			
	environment			

<sup>&</sup>quot;Creating Schoolyard Science Expeditions" Karen Crisafulli, Kathy Williams, summer, 1997

## JOURNAL PAGE

1.	DATE:	TIME:	SITE:	
2.	SAMPLE/SPECIMEN:_ LOCATION FOUND:			
3.	SKETCH/DIAGRAM:			
4.	OBSERVATION (DESC	RIPTION AND NOTES):		
In:	itials		Page	

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ADDITIONAL NOTES, OBSERVATIONS, SKETCHES, ETC.

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Initials\_\_\_\_\_