mwgagnon@comcast.net
Field Journal: www.wildlifehc.org/managementtools/backyard-amphibians.cfm
Directions for a Triorama: http://www.maasd.ecsd.net/triorama_directions.htm
Grade 3 Subject Science (EIC)
Date Jan. 2009
Written by: Grade 3 Team, J. R. Briggs, Ashburnham, MA
Unit Title Vernal Pool Ecology
Omt The Vertical Fool Ecology
Stage 1- Identify Desired Results
Enduring Understandings/ Big Ideas
Students will understand that
All living things change throughout their lifetime.
Essential Questions
What life cycles take place in the vernal pool?
Why are vernal pools important?
Knowledge and Skills/District Learning Standards
1. Reading a field guide
2. Using appropriate behavior for field work
3. Collecting information through observation
4. Mapping
1. Mapping
Stage 2- Assessment Evidence and Facet Focus
X Explanation _X_ Interpretation _X_ Application
Perspective Empathy Self-Knowledge
Performance Task
Students create a triorama of the life cycle of a frog.
Goal
Students are able to draw and describe the life cycle.
Role
A Vernal Pool Ecologist
Audience
peers

You are conducting scientific research about the organisms found in our vernal pool.

Situation

Product

A triorama of the life cycle of the frog

Standards

Science 4. Describe the life cycle of a frog.

ELA 13.9 Locate facts

14.2 Identify sensory images in poems.

Math 4.D.1 Collect and organize data

Other Evidence

*Field Journal

* Pre & Post-test

*poem

*graph

Please Attach a rubric with understanding and performance criteria.

Stage 3- Learning Plan- Briefly describe.

W- Students know where they are going, why, and what is required of them.

Post the Enduring Understanding and the Essential Question.

H- Students are hooked.

Show a container of pool water containing small organisms. Students observe and sketch what they see under a microscope.

E- Students have opportunities to **explore** and **experience** and receive instruction to **equip** them.

Students are introduced to vocabulary: vernal, amphibian, larva, obligate, facultative

R- Students have opportunities to **rethink, rehearse, revise** and **refine** their work based upon timely feedback.

E- Students have an opportunity to **evaluate** their work and set future goals.

Students use the rubric and checklist to evaluate their project.

T- The learning plan is **tailored** and flexible to address the interests, learning styles, and skills of the students **Flexible grouping**

- **O-** The learning plan is **organized** and sequenced to maximize engagement and effectiveness.
- 1. Pre-test Draw and describe the life cycle of the frog.
- 2. Observe pool water using microscopes.
- 3. Begin reading about amphibians in the Field Journal.
- 5. Play the Frog Life Cycle Game.

- 6. Construct trioramas of the frog's life cycle.
- 7. Map the field study area in the journal.
- 8. Collect, observe and sketch vernal pool organisms.
- 9. Share observations. Tally organisms found and graph.
- 10. Complete "I Wonder..."
- 11. Post-test

The Life Cycle of the Frog Triorama Project Rubric

Student name:

	Understanding	Performance
4	I showed that I had a thorough understanding of the life cycle of the frog.	My project was exceptionally neat and well organized.
3	I showed that I understood the life cycle of the frog.	My project was neat and well organized.
2	I showed some understanding of the life cycle of the frog.	My project was clearly organized but could improve on neatness.
1	I needed to show understanding of the life cycle of the frog.	My project needed organization and neatness.

Total	points	

Comments: