

Focus on: Frog Life Cycle

This lesson is meant to support the unit on Structures and Functions of Living Organisms. It can be done to generate background knowledge prior to teaching the unit, during the unit to reinforce lessons, or as a follow up to the butterfly unit to meet the objective of comparing a variety of animal life cycles. How you guide your students will depend on the information you have already taught and the information you want to introduce. Please remember that many gardens run on a yearly cycle and it will be easier to find more animals in the garden during the peak growing season. Also, in order to explore the life cycle of a frog, you will need to have a pond in your garden – preferably one with tadpoles or frog eggs in it. If you do not have one, talk to your garden coordinator to see if it may be possible to have a small pond included in your garden.

Clarifying Objectives:

2.L.1.1 Summarize the life cycle of animals including:

- Birth
- Developing into an adult
- Reproducing
- Aging and death

2.L.1.2 Compare life cycles of different animals such as, but not limited to, mealworms, ladybugs, crickets, guppies or frogs.

2.L.2.1 Identify ways in which many plants and animals closely resemble their parents in observed appearance and ways that they are different.

Key Vocabulary:

Definitions can be found at <http://learnersdictionary.com>

-Summarize
-Life Cycle
-Birth
-Developing
-Reproducing
-Aging
-Death
-Compare
-Plant Parents
-Observed
-Appearance
-Variation
-Individuals
-Related
-Egg
-Tadpole
-Froglet
-Adult

Focus Question(s):

How does the life cycle of a frog compare to life cycles of another animal?

Materials:

School Garden

Garden Gloves to wear while exploring the garden especially if touching plants, soil, lifting pots, etc.

Science Notebooks

Activities:

1. Pass out the following article for students to read. (in groups or with partners) <http://www.kidzone.ws/lw/frogs/facts3.htm>
2. Watch the following video to see the different life cycle stages: <https://www.youtube.com/watch?v=GgCL3JenMCs>
3. Discuss the article and the videos.
4. Tell students we will be visiting the garden to look for the different life cycle stages of the frog. Remind students that the frog is VERY helpful to our school garden since it eats lots of bugs. Therefore, after we observe them, we will leave them be so they can keep helping our garden!
5. Ask: *What are some tips for helping us to find the most frogs?* (Move slowly, speak quietly, be patient, look closely, etc.) Remind students they will have to look VERY closely in the garden and pond to find the different life cycles. Hint: Placing trays of water in the garden will help attract frogs who may stick around to eat bugs!
6. Head to the garden to search for frogs.
7. When one is found, there will be a rush of other students who want to see it too. Remind them to walk and take turns looking at it without pushing. We don't want to harm the people, the animals or the plants in the garden.
8. When students find a frog or one of the stages of its life cycle, they should sketch it in their science notebooks and write a bit about it.
9. When you return to the room, watch the following video to learn even more about the life cycle of a frog: <http://app.discoveryeducation.com/player/view/assetGuid/E37FF100-61A4-4685-AD53-086F3C68DDA1>
10. Also, check out this fun metamorphosis song: <https://www.youtube.com/watch?v=jR0EPHy0128>
11. Discuss the videos and the students' findings from their science notebooks from their visit to the garden. Use the Guiding Questions and encourage the use of the Key Vocabulary.

Guiding Questions:

- What stages of the life cycle did we find in the garden?
- What stages didn't we find?
- Where did you find them?
- What did they look like?
- What did you learn from the videos or article?
- In what ways are the different stages the same?
- In what ways are the stages different?
- How does this life cycle compare to other animal life cycles?
- Is this animal beneficial to have in our school garden? Why or why not?