

Life Cycle of a Frog WebQuest!



Introduction

Hello class, or should I say scientists? We are going on a WebQuest to learn more about the life cycle of a frog! Be careful not to get splashed as the frogs jump into the water. Look out! Don't step on any frogs as we sneak around the pond. As a scientists you must take careful notes as we venture on our journey.

Tasks

By the end of this WebQuest you will have...

- taken notes
- filled out two worksheets
- watch the life cycle of a frog video
- read two articles and viewed awesome pictures
- taken a quiz for a grade
- filled in a diagram for a grade

Process

First, please print these pages for your journals. Take notes and answer the questions as we go along.

http://www.ourclassweb.com/projects/webquest_frogs_science_journal_notes.pdf

http://www.ourclassweb.com/projects/webquest_frogs_gg_task2.pdf

http://www.ourclassweb.com/projects/webquest_frogs_gg_task3.pdf

Frogs are amphibians. The word amphibian comes from the Greek word "amphi" or "bios" which means "double life". Why do amphibians live a double life?

Amphibians are cold-blooded animals that possess backbones. Their features lie somewhere between fish and reptiles. Amphibians spend time both in water and on land. Their larvae (eggs) grow and mature in the water and breathe through gills like fish. However, adult frogs breathe air through their lungs and skin.

(Information on Amphibians provided by www.scienceclarified.com/A1-As/Amphibians.)



Have you ever wondered where frogs live? I'm sure many of you have seen them in your back yard or maybe even stuck to your window.

Here is a picture of a frog habitat.

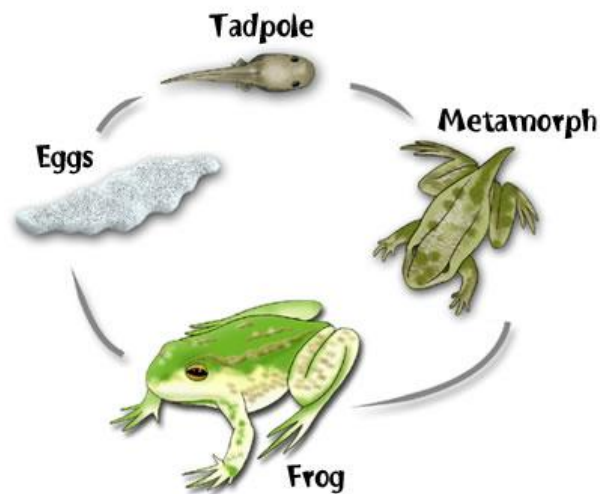


Frogs live on every continent in the world except Antarctica. Frogs must live in or near a place that has water. Most frogs live near lakes, rivers, and streams. Frogs need the water to keep their skin moist, which is necessary for their survival. Another reason frogs live near water is because they need the water to lay their eggs. Frogs begin their life as larvae (eggs).

Frogs lay their eggs in the water. Frog eggs are protected by a jellylike coating. Without water this jellylike coating would dry out and the frog eggs would die. Some frogs never enter the water. These frogs live on land or in trees and only enter the water to mate. There are other frogs that are known as burrowers. They have very short legs and cannot hop. These frogs burrow into the sand or mud to keep their skin moist.

Here is a video for you to watch on the life cycle of a frog. Enjoy!

<http://www.youtube.com/watch?v=7NhA9SHunKs&feature=related>



The process that transforms a frog from water to land is called metamorphosis. Metamorphosis is the transformation from an egg into an adult. Frogs change from egg into an adult frog. Frogs go through four stages in their life: egg, tadpole, metamorph (froglet), and adult. This metamorphosis is also known as the frog's life cycle. The phase between the tadpole and metamorph (froglet) can take anywhere from 3 weeks to a year depending on the species of frog. Many diagrams showing the life cycle of a frog will break down these two stages into more steps so that it is easier to see the entire transformation, but there continues to be only four stages.

Please read through the following two websites for even more information on the life cycle of a frog. There are lots of really neat pictures!

<http://www.erodent.co.uk/GardenPond/March2002.htm>

<http://www.erodent.co.uk/GardenPond/April2002.htm>

Evaluation

Now that everyone is a frog expert we are going to take a short quiz for a grade. Please print the quiz and bring it finished to class. You may use your notes and worksheets to help you.

http://www.ourclassweb.com/projects/webquest_frogs_el_frog_quiz.pdf

Also, as another grade please label this diagram and turn it in. There is a word bank at the bottom to help you. These two things will help me to see how much you really learned on our adventure.

Conclusion

I'm so proud of everyone! You are all now frog experts. I'm also glad to see that no one got lost along the way! Now whenever you next see a frog you will be able to tell what stage of life it is in. You will also be able to fully appreciate them knowing everything you've learned.

Here is a fun little poem for you. ☺

Five Little Tadpoles (Poem)

Five little tadpoles swimming near the shore.
The first one said, "Let's swim some more."
The second one said, "Let's rest awhile."
The third one said, "Swimming makes me smile."
The fourth one said, "My legs are growing long."
The fifth one said, "I'm getting very strong."
Five little tadpoles will soon be frogs.
They'll jump from the water and sit on logs.

By: kidzone.com