















Living Things and Their Habitats: Metamorphosis

<p>Aim: To describe the differences in the life cycles of an amphibian and an insect by exploring complete and incomplete metamorphosis.</p> <p>I can compare the life cycles of amphibians and insects.</p>	<p>Success Criteria: I can explain metamorphosis and give examples.</p> <p>I can describe the life cycles of amphibians and insects.</p> <p>I can describe the similarities and differences between the life cycles of amphibians and insects.</p>	<p>Resources: Lesson Pack</p>  <p>REGENT STUDIES Focused education on life's walk! www.regentstudies.com</p>
	<p>Key/New Words: Metamorphosis, amphibian, insect, transform, larvae, pupa, nymph, egg.</p>	<p>Preparation: Clue Cards - cut out and stuck up around the room, not in the order of the life cycles</p> <p>Amphibians and Insects Activity Sheet - 1 per child</p>

Prior Learning: The children will have learnt about asexual and sexual reproduction in lessons 1, 2 and 3, and the life cycles of mammals in lesson 3.

Learning Sequence

	Metamorphosis: Explain metamorphosis using the Lesson Presentation .	
	Animals That Change: Children talk about animals they know that undergo metamorphosis, using the pictures on the Lesson Presentation to prompt them. Look for children who can identify animals that go through metamorphosis. Some children may be able to describe animals other than the ones on the Lesson Presentation.	
	<p>Amphibians and Insects: Children use the Clue Cards stuck around the classroom to complete the life cycles on their differentiated Amphibians and Insects Activity Sheet. Look for children who are able to describe the stages of the different life cycles.</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <p>Children fill in the missing words to describe the life cycles.</p> </div> <div style="text-align: center;">  <p>Children fill in missing words and complete sentences in some boxes with missing text.</p> </div> <div style="text-align: center;">  <p>Children fill in missing words and fill in blank boxes that are next to each other in the life cycle.</p> </div> </div>	
	Comparing Life Cycles: Children discuss similarities and differences between the life cycles they have described on the Amphibians and Insects Activity Sheet . Look for children who can identify similarities and differences between the life cycles, spotting common features and between insects and amphibians.	
	Metamorphosis Draw-off: Children work in pairs to draw an animal that undergoes metamorphosis (at any point in the process) while their partner guesses. Allow the children to take as many turns as you wish with this activity.	

Taskit

Observeit: You may be able to collect some frogspawn and watch as it hatches into tadpoles and as the tadpole change into frogs. Or you may choose to purchase a caterpillar kit, and observe the caterpillars make their chrysalises and transform into butterflies.

Readit: Read the book 'Tadpole's Promise' by Jeanne Willis and Tony Ross. Can children predict the surprising ending?!



Science

Living Things and Their Habitats



Metamorphosis





Aim

- I can compare the life cycles of amphibians and insects.

Success Criteria

- I can explain metamorphosis and give examples.
- I can describe the life cycles of amphibians and insects.
- I can describe the similarities and differences between the life cycles of amphibians and insects.



Metamorphosis

Metamorphosis is a process by which animals undergo an abrupt and obvious change in the structure of their body and their behaviour.

Some animals undergo complete metamorphosis, in which they completely transform. Other animals experience incomplete metamorphosis, where they go through several different stages, with each stage getting bigger than the last.

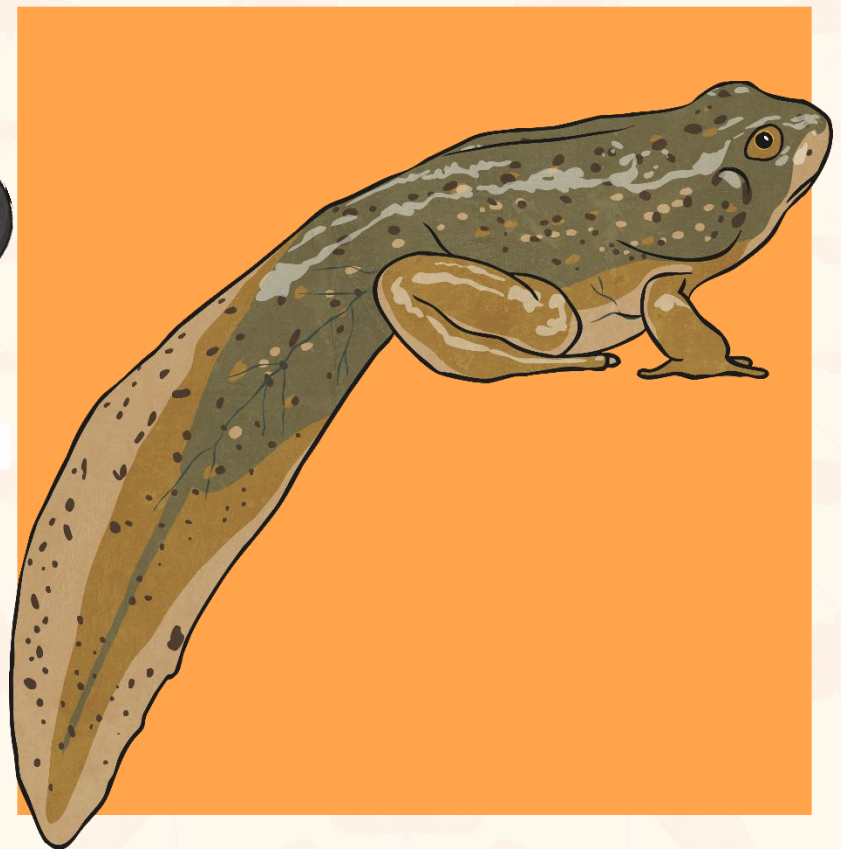




Animals That Change



Talk to your partner about any animals you know that undergo metamorphosis. How do they change and transform? Use these pictures to help you get started!



Amphibians and Insects




Amphibians and insects are examples of animals that undergo metamorphosis. Their life cycles show the stages of their transformations.

Can you find the clues around your classroom to complete the life cycles on your Amphibians and Insects Activity Sheet?

Amphibians and Insects


frog

The female lays a mass of _____ that are fertilised by the male.




After _____


The tadpole grows front _____ and its tail shortens. The froglet jumps out of the water onto _____.



The tadpole develops _____ and hind legs.



The tadpole grows _____




The female lays a mass of _____ that are fertilised by the male.

butterfly

Fertilised eggs are laid by the _____.

The eggs hatch _____.


The caterpillar forms a hard case around itself called a _____.



The caterpillar forms a hard case around itself called a _____.



Inside _____.

The butterfly breaks out of the chrysalis and _____.





Fertilised eggs are laid by the _____.



For 2 or 3 weeks, tadpoles _____ from the eggs. They eat _____ and small insects _____ through gills.

The tadpoles grow _____ legs, then _____ back legs. They develop lungs to breathe. They look like small _____.

_____ out of the _____ up the stem of a plant. It sheds its _____ and emerges as a dragonfly. It will find a mate and _____.



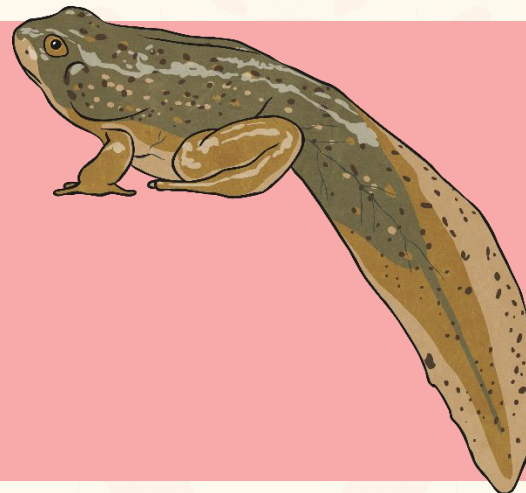
Comparing Life Cycles



Look at the life cycles you have described on your Amphibians and Insects Activity Sheet.

Can you find 3 similarities between the life cycles of the 4 animals?

Now identify 3 differences between the life cycles.





Metamorphosis Draw-off



Take turns to draw an animal that undergoes metamorphosis. You can draw it at any stage of its metamorphosis.

Can your partner guess which animal you have drawn? And can they name the other stages in this animal's life cycle?





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