Essential Question

What Are Some Animal Life Cycles?



Engage Your Brain

Find the answer to the riddle in this lesson.

When is a frog not like a frog?

When it is a



Active Reading

Lesson Vocabulary

- Preview the lesson.
- Write the 6 vocabulary terms here.

Animal Start-Ups

A dog can have puppies. A cat can have kittens. Adult animals can **reproduce**, or have young. Animals such as puppies and kittens look like their parents. How does a kitten look like an adult cat?

Other young animals look very different from their parents. They go through changes and become like their parents.



What's in the Egg?

Many animals begin life by hatching from an egg. Animals change as they grow. The changes that happen to an animal during its life make up its life cycle.

How are the animals in this chart alike?

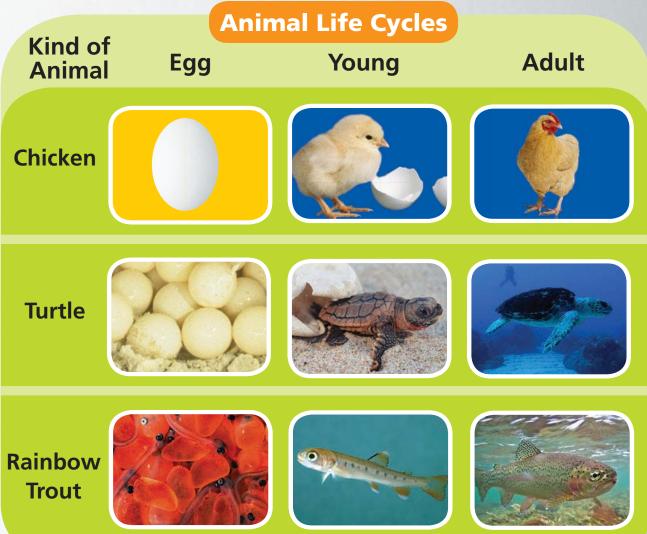
(bl) ©Theodore Clutter/Photo Researchers, Inc.; (bc) ©Theodore Clutter/Photo Researchers, Inc.

(br) @gmcoop/E+/Getty Images.

(tc) @Getty Images/PhotoDisc; (tr) @Getty Images/PhotoDisc; (cl) @Peter Arnold, Inc./Alamy; (c) ©Visual & Written SL/Alamy; (cr) ©National Oceanic And Atmospheric Administration (NOAA);

© Houghton Mifflin Harcourt







Egg

A frog begins life inside a tiny egg.

Young Tadpole

A **tadpole** hatches from the egg. It lives in water. It takes in oxygen with gills.

Hatch, Swim, Hop

Did you know that a frog begins life inside a tiny egg? The young frog goes through changes to become an adult. These changes are called **metamorphosis**.

Active Reading

Circle the name of the body parts that a tadpole uses to take in oxygen. Underline the name of the body parts that an adult frog uses to take in oxygen.





Growing Tadpole

The tadpole gets bigger. It grows four legs. Later, it loses its tail.

Frog

The adult can live on land or in the water. It hops. It breathes with lungs.

Polar Parenting

It is late October. A female polar bear gets a shelter ready for her cubs. She digs a den in the snow. The den will keep her young warm and safe. She gives birth in winter.

► How is a polar bear's life cycle different from a frog's life cycle?





Newborn

A polar bear cub is born inside the den. It drinks milk from its mother's body.

Growing Cub

The cub begins to explore outside the den.

(bkgd) @Steve Bloom Images/Alamy; (cl) @Jenny E. Ross/Corbis; (cr) @Andre Anital/iStock/Getty Images Plus/Getty Images



The Mighty Mondrch

A monarch butterfly has a life cycle, too. An adult female butterfly lays a tiny egg. The egg is so small it is hard to see. This picture shows a close-up of an egg on a leaf.



Why do you think a butterfly egg is so small?

Houghton Mifflin Harcourt
 Publishing Company



A tiny larva, or caterpillar, hatches from the egg. A caterpillar is a young butterfly. The larva eats a lot and grows quickly.

Then the larva stops eating and moving. The larva becomes a pupa. It makes a hard covering.

A pupa goes through metamorphosis inside the covering. It grows wings. Many other changes also happen.



Finally, an adult butterfly comes out of the covering. It can have its own young.

Active Reading

Clue words can help you find the order of events. Draw a box around the clue words **then** and **finally**.

Sum It Up >>





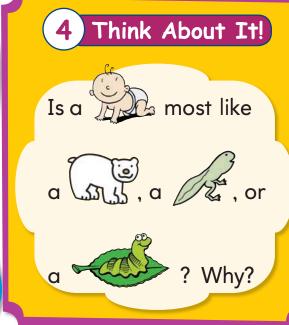


3 Solve It!

Answer the riddle.

I am little now. I will change and grow. Someday I will be an adult cat.

What am I?



(il) @Scott Bell/Alamy; (tc) @Getty Images/PhotoDisc; (ci) @Getty Images/Photodisc; (c) @Thomas & Pat Lesson/Photo Researchers, Inc.

Name _____

Vocabulary Review

Use these words to complete the puzzle.

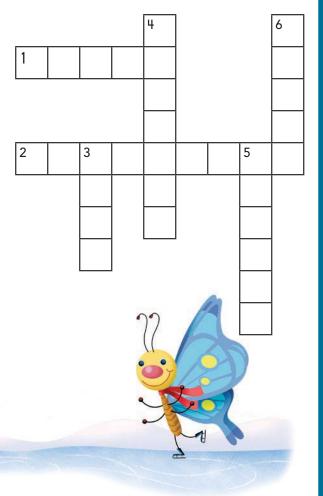
tadpole change pupa larva reproduce cycle

Across

- 1 The stage in a butterfly's life cycle after the egg
- To make more living things of the same kind

Down

- The stage in a butterfly's life between larva and adult
- A young frog that lives in water
- This takes place during metamorphosis in frogs and butterflies
- 6 All the stages of an animal's life make up its



Apply Concepts

How is the life cycle of a butterfly different from the life cycle of a polar bear? Use this chart to show your answer.

Life Cycles

Butterfly	Polar Bear
A butterfly hatches from an egg.	
	A polar bear cub drinks milk from its mother's body.
	A polar bear cub looks a lot like its parents.
A butterfly larva does not stay with its parents.	



Take It | Family Members: See ScienceSaurus® for more information about living things.