

**L.O: To understand the life cycle of animals.**

**S.C: I understand what a life cycle is.**

**I can draw the stages of an animals life.**

**I can label my diagram and explain what it shows.**

**Life Cycle:** Shows the different stages of life for a living thing.



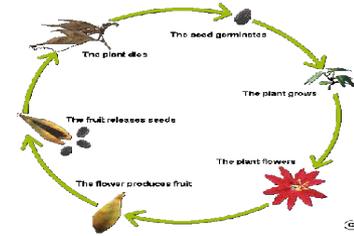
**Offspring:** An animals young (baby),

**Germinate:** When a seed begins to grow and put out shoots.

**Frogspawn:** The eggs of a frog, which are surrounded by transparent jelly.

**Tadpole:** He tailed amphibian (frog, toad, newt, or salamander), breathing through gills and lacking legs until the later stages of its development.

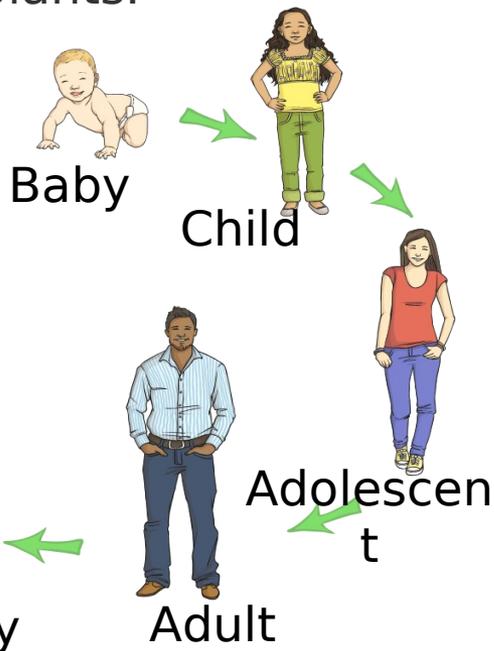
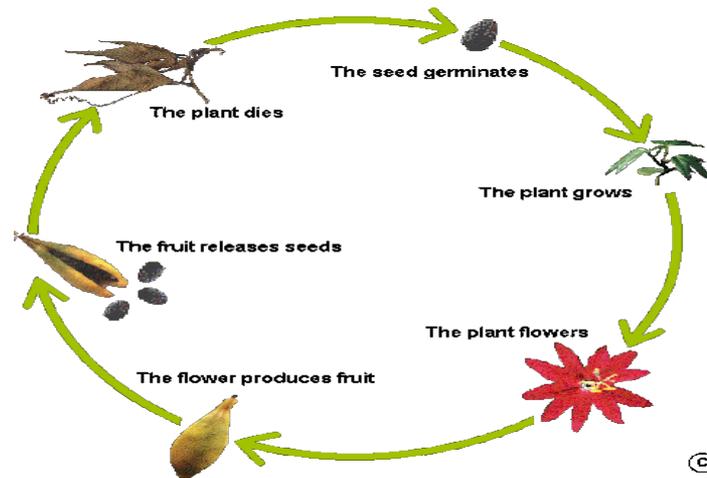
**Froglet:** A tiny frog that has recently developed from a tadpole.



# What is a life cycle?

All living things have **life cycles**.

Animals produce **offspring** and plants produce **seeds** which **germinate** into new plants.



**A life cycle simply shows the different stages of life for a living thing.** In science it is usually shown in a circular diagram that shows each stage in words and pictures.

A life cycle is presented as a circle to show that seeds / offspring are created as part of the cycle.

**Watch these videos to help you understand life cycles.**

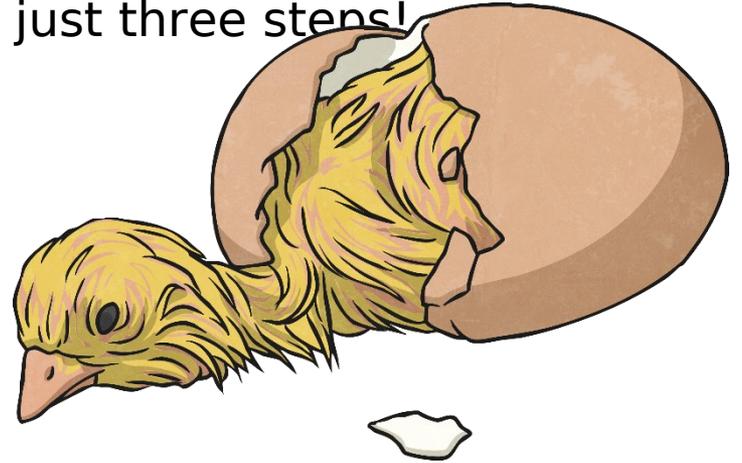
<https://www.youtube.com/watch?v=ivx6w56Zad4>

<https://youtu.be/PqzF4-w7bG8>

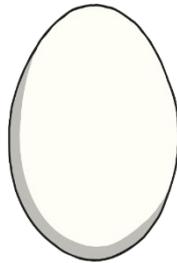
# Do All Animals Have the Same Life Cycle?

Not all animals go through the same changes throughout their life cycle, but most animals go through what's called the **simple** life cycle. The simple life cycle has just three steps!

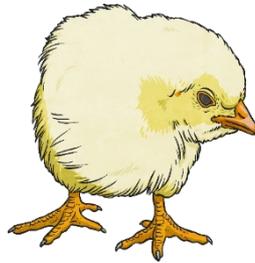
- They are born (birthed or hatched).
- They are young.
- They are adults



A chicken goes through a simple life cycle:



Egg



Chick



Chicken

# A frogs life cycle

- First, a frog lays her eggs in a pond. These eggs are called **frogspawn**. Their eggs are covered in a special jelly to keep them safe and warm.



- Next, the **tadpoles** hatch out of the **frogspawn**. This happens after about 6-21 days.
- The tadpoles are usually dark brown, black or grey and have long wiggly tails and a large head.
- They have gills to help them breathe underwater. They eat algae and water plants and begin to grow larger.
- Tadpoles have a tail for swimming with. It usually takes them 6-9 weeks to fully develop as a tadpole, however some types of frogs may take much longer.





Around week 12, the tadpole sprouts **legs.**

It then becomes a **froglet**. It starts to grow arms, have a longer body, and have a bigger head. It breathes under the water and still has a tail.



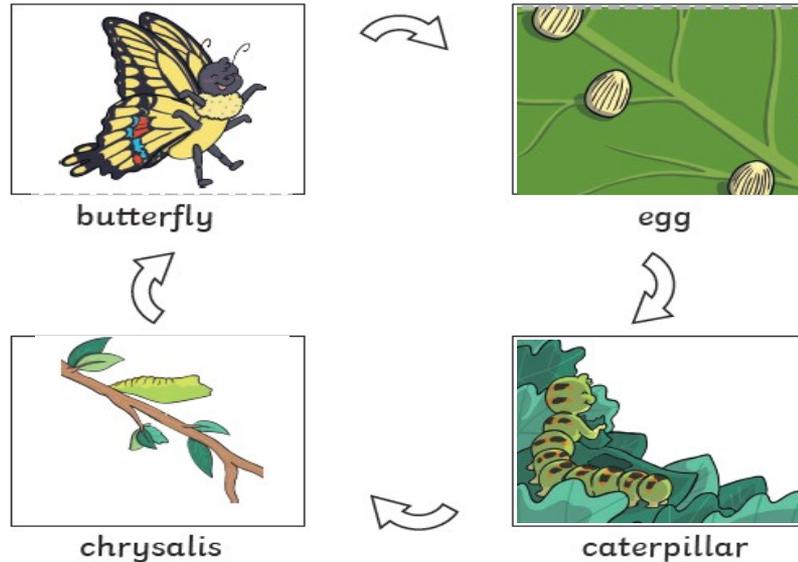
Finally it becomes a **frog**. The adult frog breathes air and has no tail. This growth cycle, from egg to frog takes **between 12 to 16 weeks.** Watch the video below to watch the life cycle of a frog.

<https://www.youtube.com/watch?v=AMs3waaW75g>



# Your Activity!

You will be drawing the life cycle of a frog. Below is an **example** of the life cycle of a butterfly.



**Egg** - First a butterfly lays an eggs onto a leaf. These can be round, oval or cylindrical.

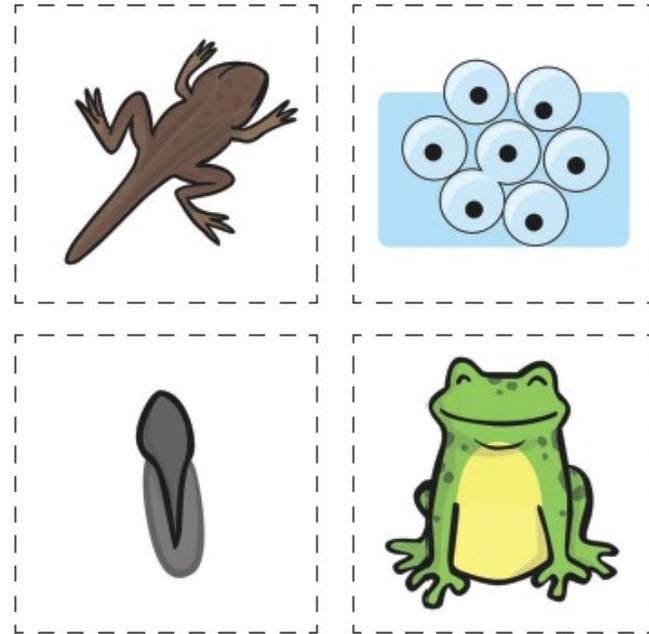
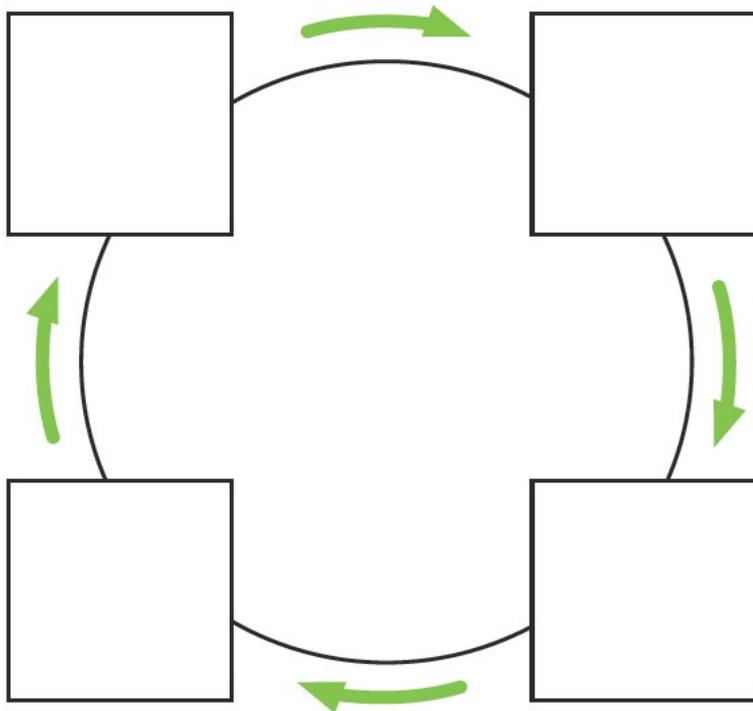
**Caterpillar** - Next the caterpillar hatches and starts eating the plant it was born on, this helps it to grow. It sheds its skin several times.

**Chrysalis** - Then the caterpillar undergoes a process called **metamorphosis** inside its **chrysalis**, where it is rapidly changing inside.

**Butterfly** - Finally it becomes a fully formed butterfly, it dries its wings and then flies off to seek out a mate.

# Skills Activity

Draw the diagram below on a piece of paper to show the life cycle of a frog. Then use the pictures to help you draw the stages into the boxes. Label each stage using the key vocabulary below.

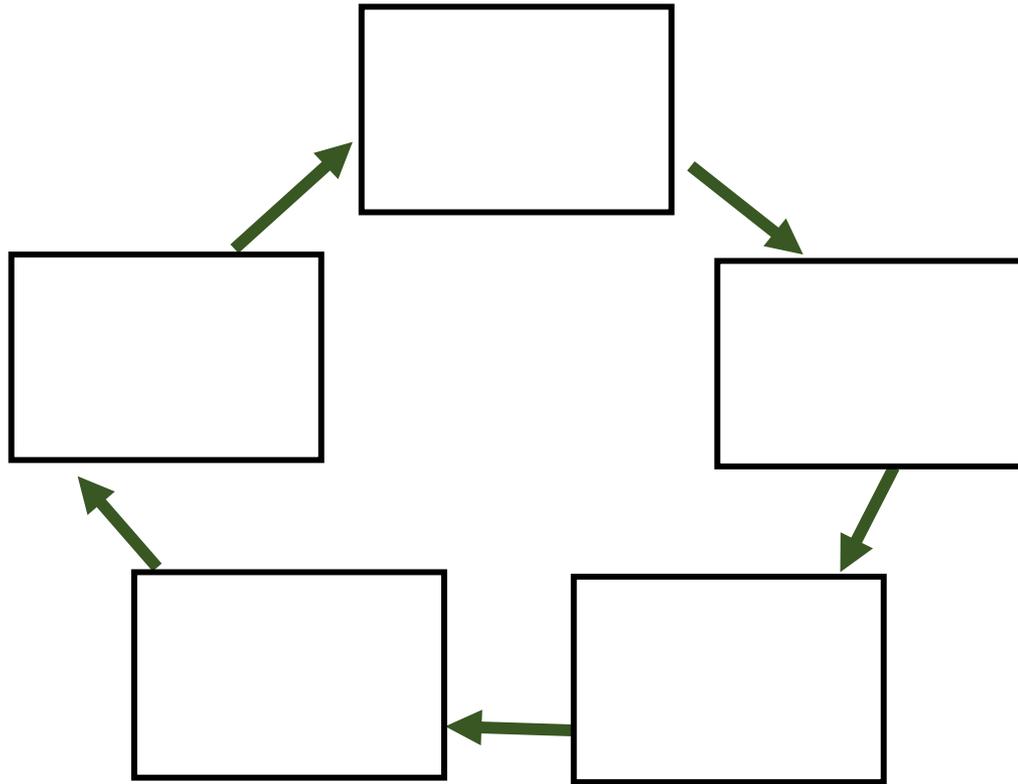


## **Key words:**

frog   frog spawn   tadpole  
froglet

# Core and Extension Activity

Draw the life cycle of a frog to show the 5 stages of it's life. Label each stage. When you have finished drawing your diagram, write a few sentences to explain each stage using key vocabulary.



## **Key words:**

frog   frog spawn   tadpole  
froglet