



Living things

Living organisms are different from each other but some basic characteristics are similar in all of them.

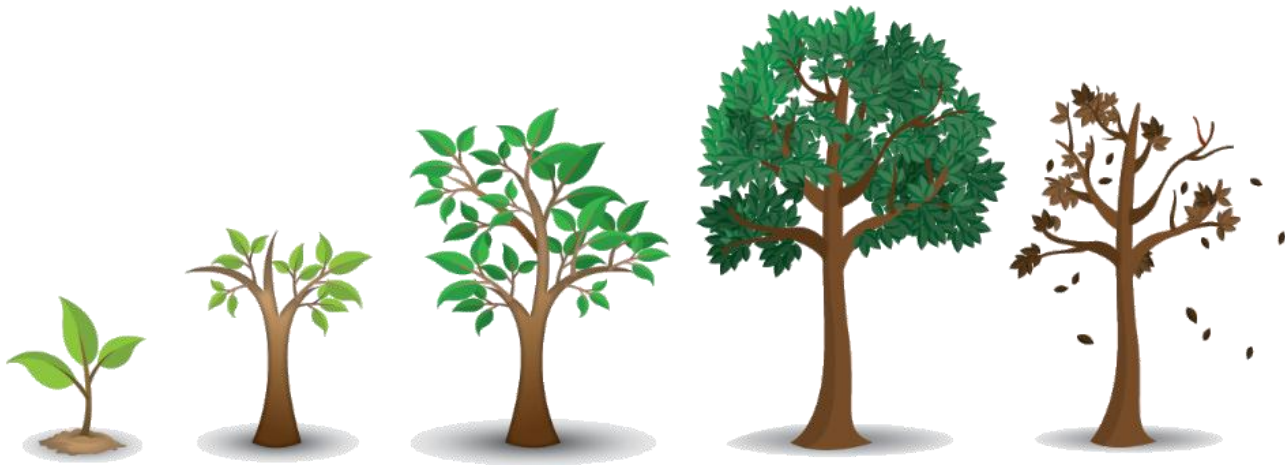
For example:

- Food
- Growth
- Breathing
- Reproduction

Students' Learning Outcomes

Compare the different stages of the lifespan of plants and animals (from pictures, through observation / video etc).

“Reproduction means the process by which living things produce offspring or babies of their own kind.”



Plants and animals reproduce to make new off springs. Life would not exist on the Earth if plants and animals do not reproduce.

- + Plants reproduce through seeds.
- + Animals reproduce by giving birth to babies, or laying eggs.





Animals and their off springs

Many animals have off springs that look like their parent at the time of their birth. For example:

<p>Horse and foal</p>	<p>Lion and cub</p>
<p>Sheep and lamb</p>	<p>Duck and duckling</p>

But some off springs do not look like their parents at the time of their birth. After passing some stages, they resemble with their parents. For example:

<p>Caterpillar and butterfly</p>	<p>Tadpole and frog</p>



Life cycle of a plant

Life cycle of a plant consists of four stages.

1. **Seed:**

The life cycle of a plant starts from a seed. Seed is sown in the soil.

2. **Seedling:**

The seed grows roots and shoots to become a seedling.

3. **Young plant:**

This seedling grows into a young plant with leaves, roots and stem.

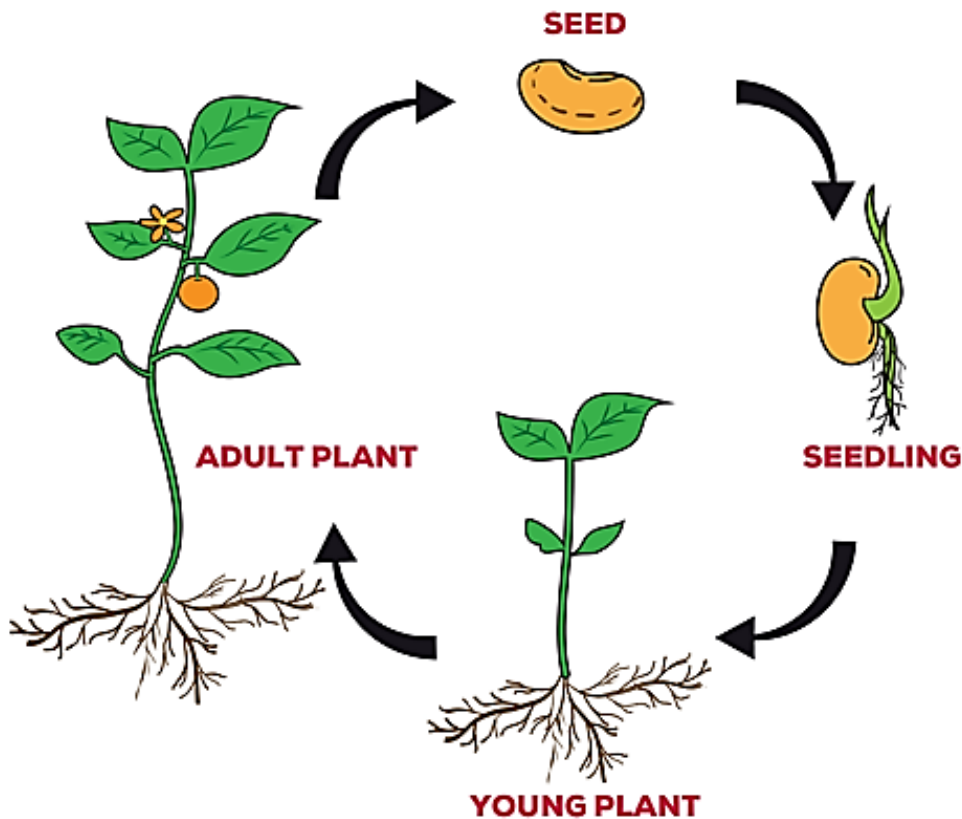
4. **Adult plant:**

Young plant grows into an adult plant. The fully grown plant produces flowers.

The flowers produce seeds in a fruit. For example life cycle of a pea plant.

Students' Learning Outcomes

Identify the changes in the life span of an animal and a plant.





Life cycle of a butterfly

Life cycle of a butterfly has four stages.

1. Egg:

- ❖ Eggs are the first stage. After two to three weeks, they change into a larva.

2. Larva:

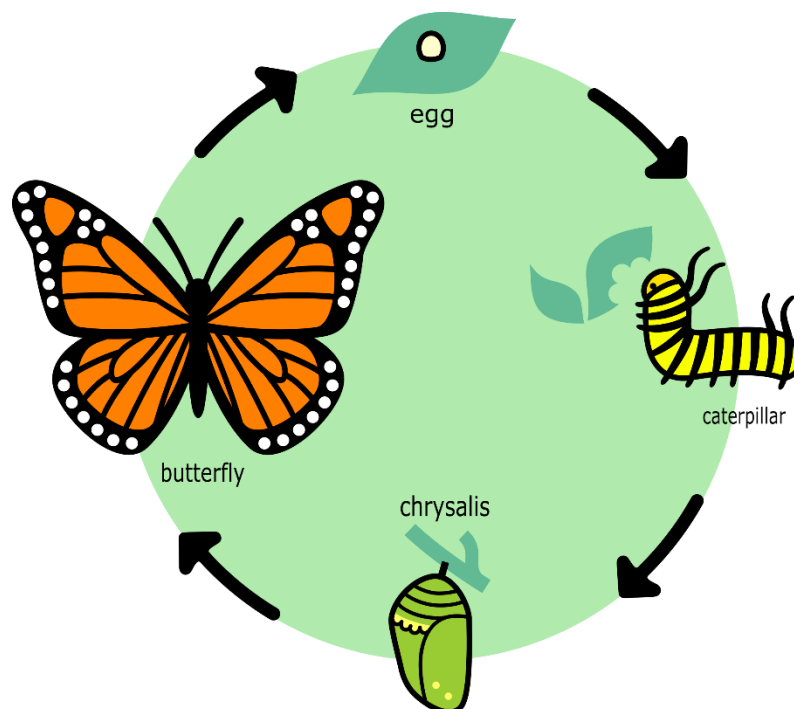
- ❖ A larva is also called a “caterpillar”.
- ❖ It grows quickly, about 2 inches long in 2-4 weeks.

3. Pupa:

- ❖ A fully grown larva is called a pupa.
- ❖ A pupa is also called a “chrysalis”.
- ❖ The pupa's skin hardens into a shell. After 2 weeks, an adult butterfly emerges.

4. Adult butterfly:

- ❖ The adult butterfly slowly unfolds its wings to dry.
- ❖ After a few hours, the butterfly will be ready.



Life cycle of a butterfly



Life cycle of a chick

1. **Egg:**

Life cycle of a chick starts with an egg. After that, a hen sits on the eggs for 21 days.

2. **Hatching:**

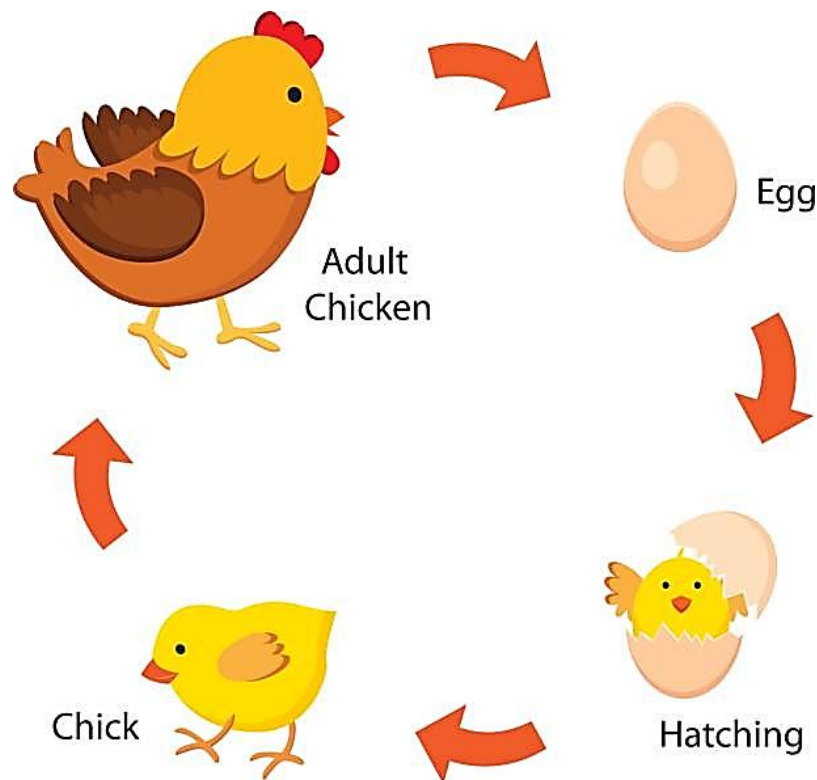
After about 21 days, eggs hatch and small chicks come outside from the egg shells.

3. **Chick:**

Once hatched, the chick is fluffy and small. It is very fragile and needs warmth, so it stays close to the mother hen or in a warm environment.

4. **Adult hen:**

Then small, fluffy chick grows into an adult chicken.



Life cycle of a chick