

### Plants on Earth





#### Plants are a part of Earth's Ecosystems!

In 3rd Grade, our goal is to understand how plants survive in their environments.

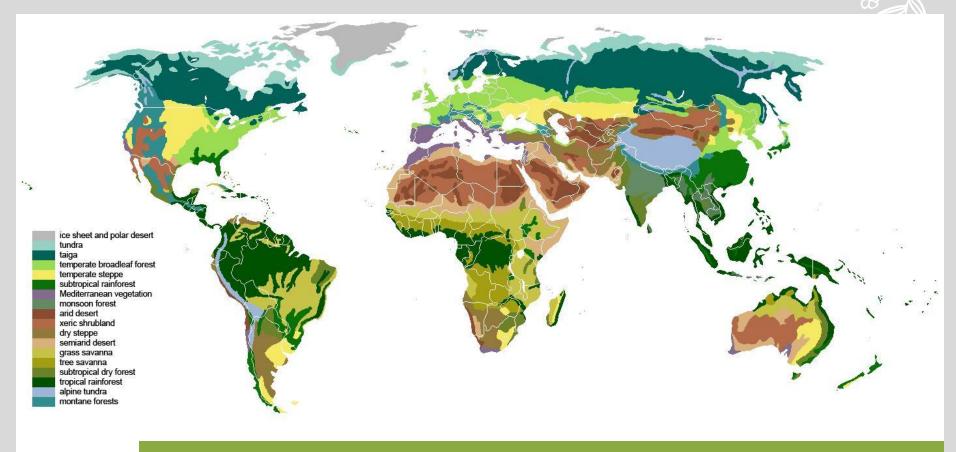


## Plants are living organisms on Earth.



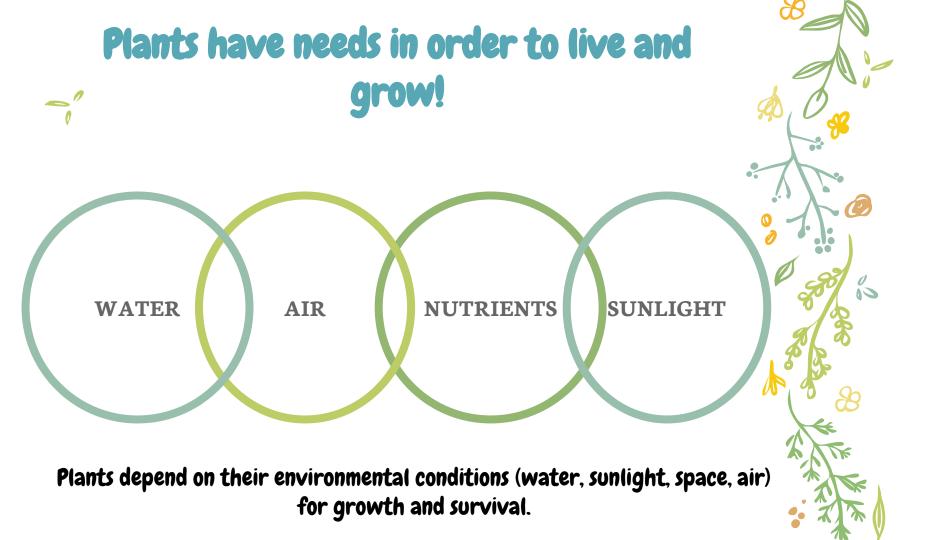




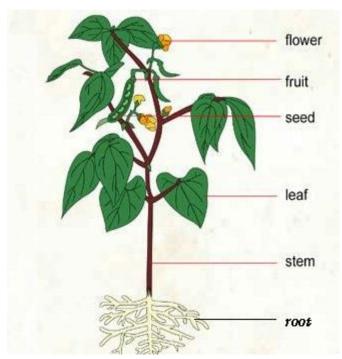


Plants are a part of Earth's different ecosystems. You can find them in deserts, forests, and even in the arctic!







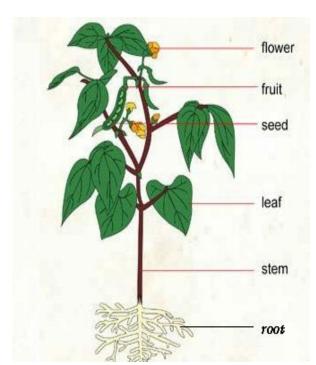


Each part of the plant is needed for growth and survival.



#### Plant structures have functions.

- Flowers attract pollinators and produce seeds for reproduction
- Leaves synthesize food
- Stems provide support
- Roots absorb nutrients





Each plant part has a role that is for needed for plant growth and survival.

#### Plants are living organisms on Earth.

Plants are part of Earth's ecosystems.

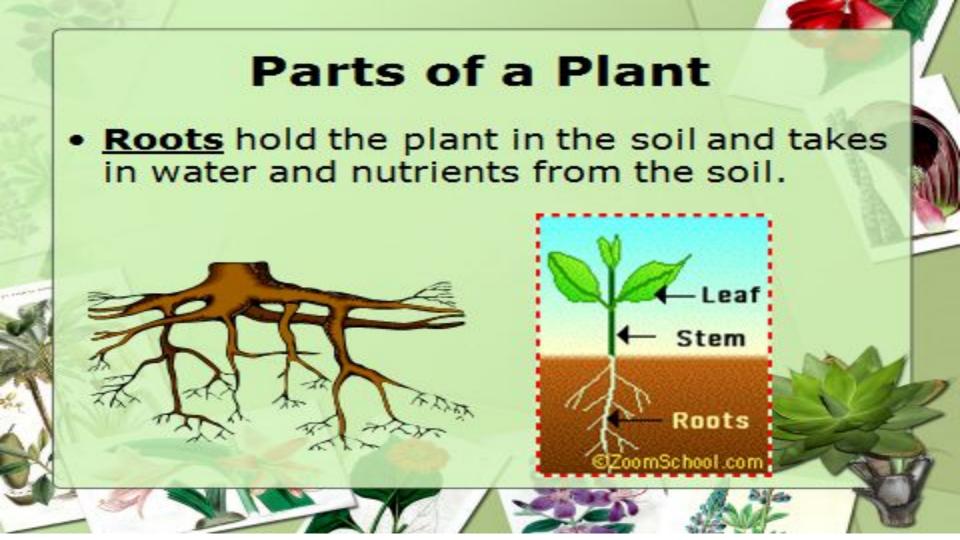
Plants have needs, structures, and functions that are necessary for growth and survival.

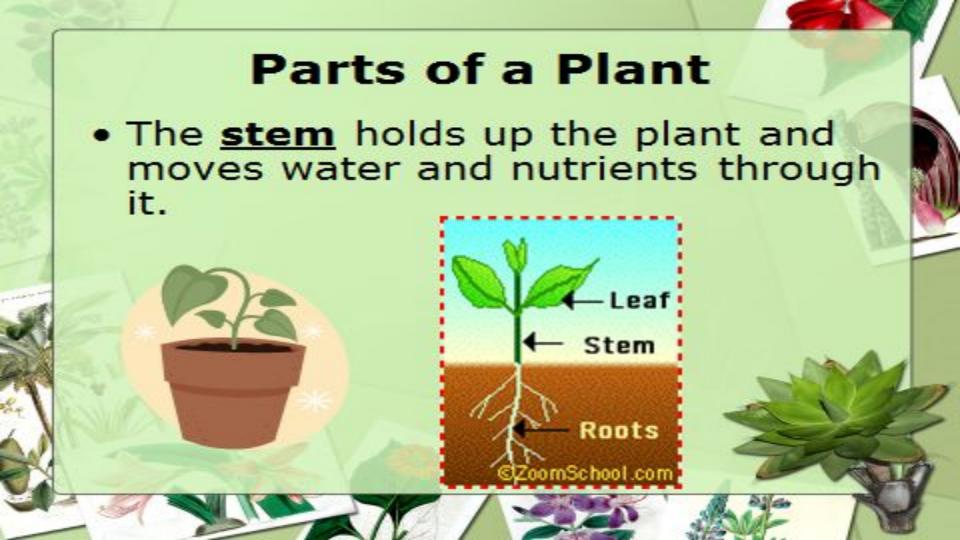
Plants depend on their environmental conditions (water, sunlight, space, air) for growth and survival.

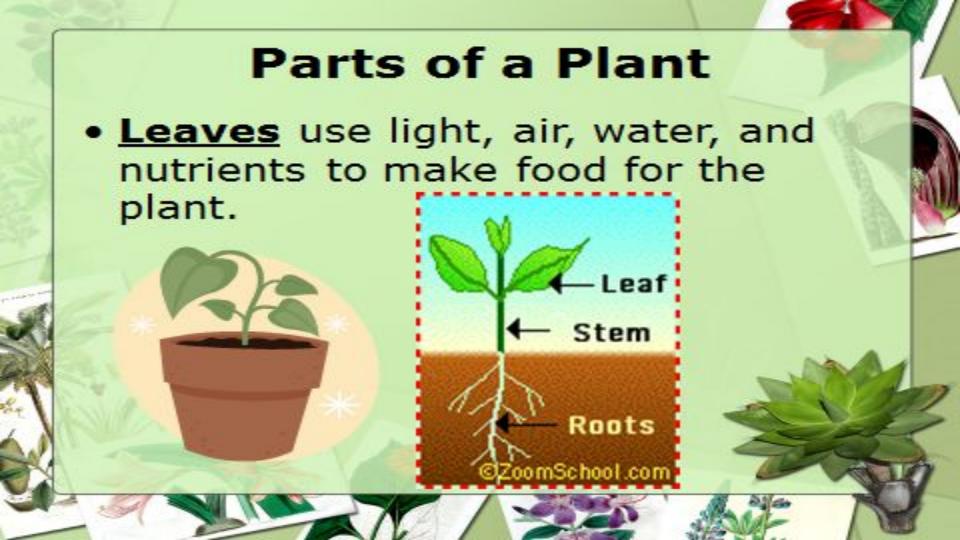


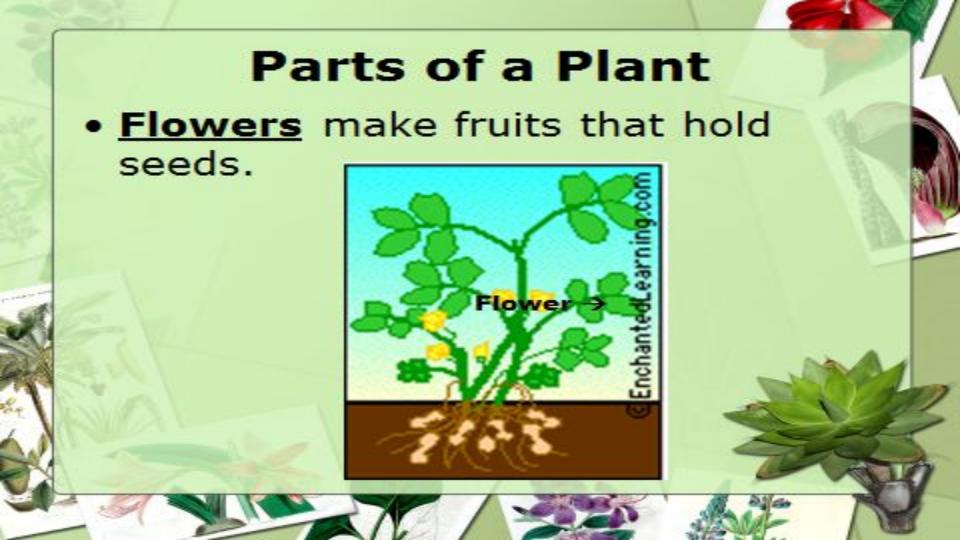
# Plant structures perform necessary functions for survival.

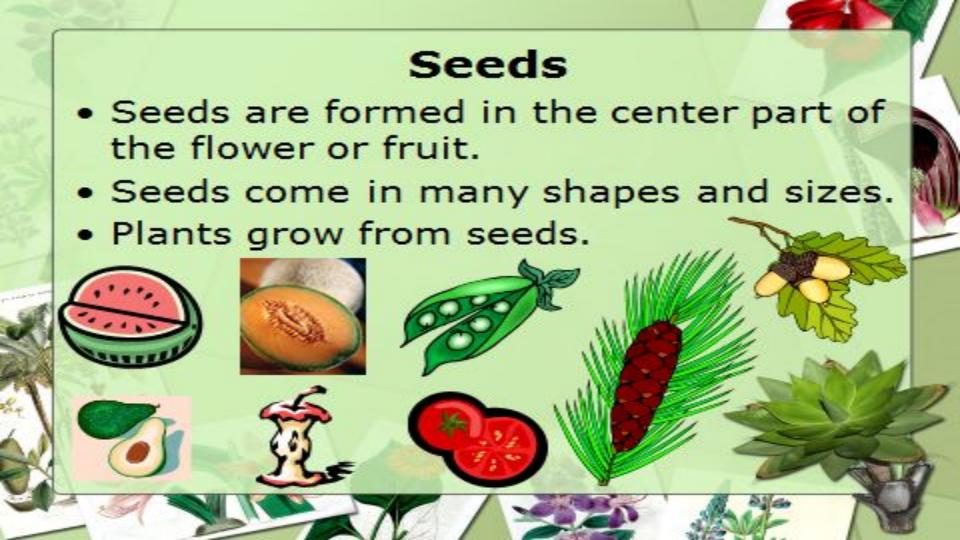












## Flowers attract pollinators and produce seeds for reproduction.











## Plant flowers attract pollinators and produce seeds for reproduction.

#### **Pollinate**

to give (a plant) pollen from another plant of the same kind so that seeds will be produced

Pollination is required for plants to produce seeds.

Honeybees are a common *pollinator* of flowers.

#### Produce

to make or create (something) by a natural process

The tree *produces* good fruit.

Honey is *produced* by bees.

#### **Plant Reproduction**

the process that produces new plants





- Plant roots

   absorb
   nutrients
   (and
   water)
   from soil.
- Plant
  leaves
  synthesize
  (produce)
  food.
- Stems
   provide
   support for
   plants.
- Plant flowers
  attract
  pollinators
  and produce
  seeds for
  reproduction.



## Many plants need soil for growth and survival.



#### Soil comes many colors.







#### Basic Properties of Soil

#### Texture

(How does the soil feel? Is the soil sticky, rough, soft?)



## Capacity to Hold Water

(How easily does water moves through the soil?)

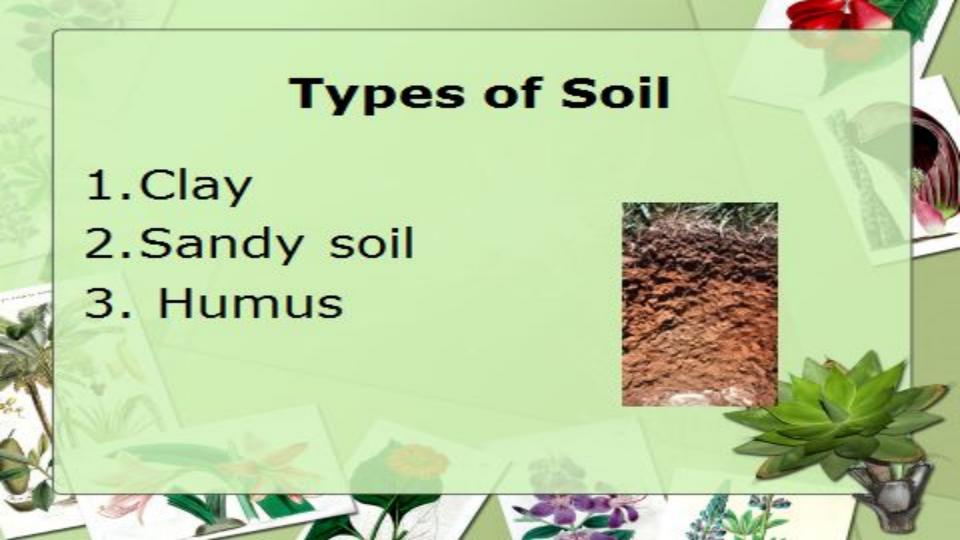


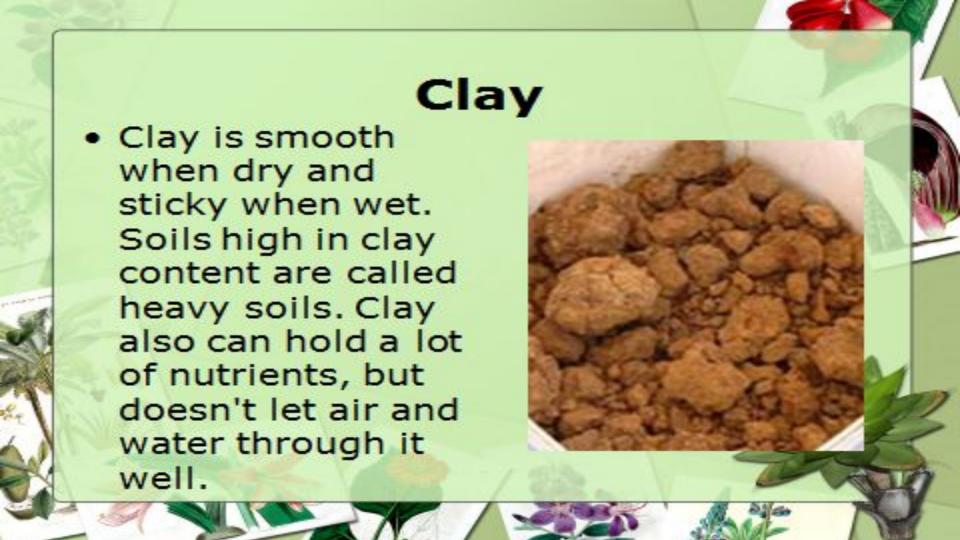
#### Nutrient Content

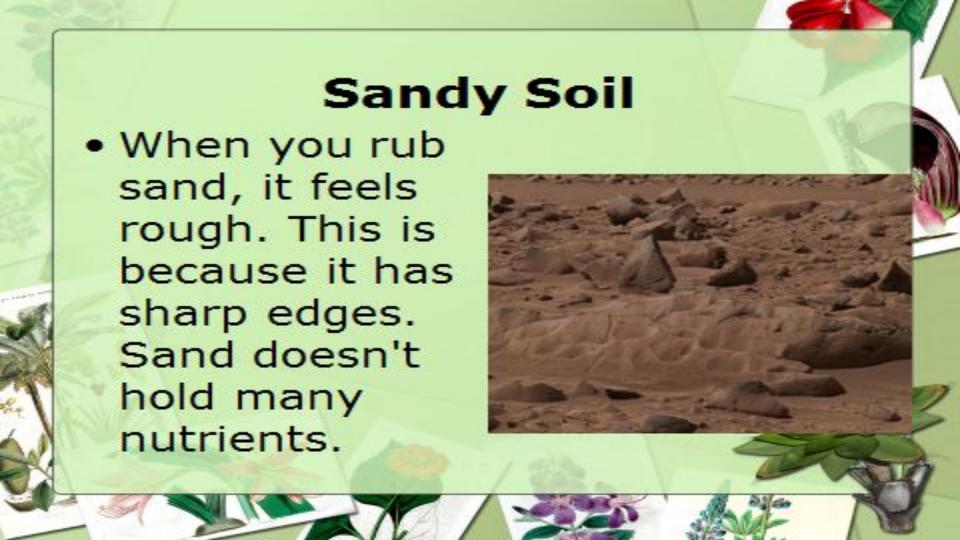
(Does the soil have many nutrients?)











#### Humus

 a brown or black material in soil that is formed when plants and animals decay



## Many plants need soil for growth and survival.

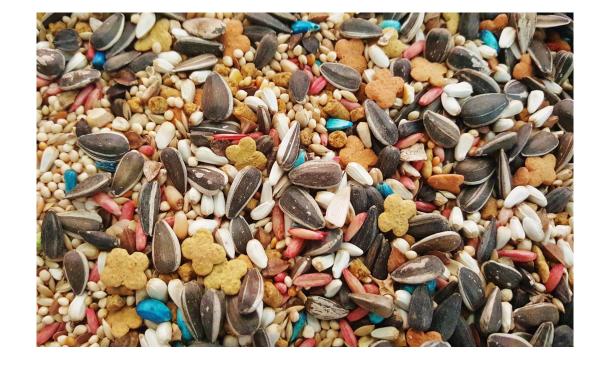
- \* Soil is made of sand, clay, and humus.
- → Soil has basic properties such as texture, capacity to hold water, and nutrient content.



# A cycle is a set of events or action that happen again and again in the same order

## Seed plants have a particular life cycle.





The life of a plant begins as a **seed**.







Seeds germinate and produce seedlings.





If a seedling's needs are met it will grow into an adult plant.





An adult plant produces seeds.







# Seeds are scattered and the plant life cycle begins again.







