

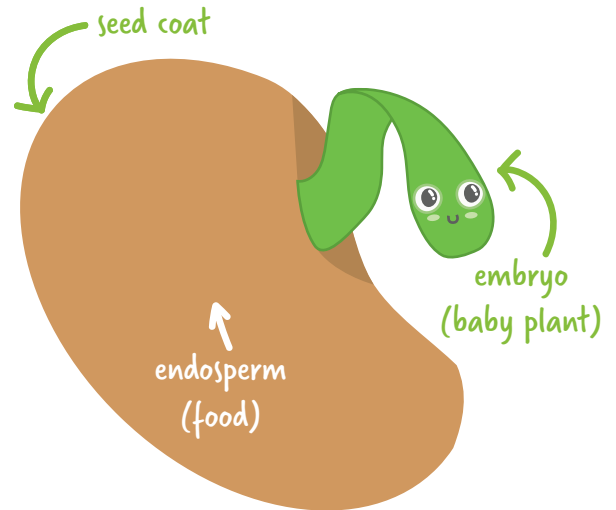
What a seed needs... To SPROUT!

SEED LIFE CYCLE

Seeds have a life cycle, just like humans have a life cycle! Seeds start their life cycle by **germinating** – this is the process of growing from a seed to a plant.

Seeds come in all different sizes, colours and shapes, but all have the same 3 things inside of them to turn into a plant:

1. Seed coat
2. Embryo (a baby plant inside the seed), and
3. Endosperm (food supply)



The seed coat protects the inside of the seed and won't open its coat to let the embryo out until it's sure it has the conditions it needs for a plant to grow.

For a seed to germinate it needs:

1. Moisture 
2. Warmth 
3. Oxygen 

Once the seed coat opens, the embryo pushes its tiny roots out, and down. Then it pushes its tiny stem up, and until the stem emerges from the ground, it uses the endosperm of the seed for food.

Once the embryo sprouts from the ground and starts to grow leaves, it can begin photosynthesis (turning the sun's energy into food for the plant to eat). Once that happens, the plant no longer needs the endosperm for food.

The plant then grows bigger and bigger until it produces a flower and/or a fruit, and inside the flower or fruit are more seeds, which we can save and plant in our garden the next year – that is the cycle of the seed!

LIFE CYCLE OF AN APPLE



WINDOW GREENHOUSE ACTIVITY

MATERIALS

2-3 Seeds- Beans or Peas (germinate quickly)
3 Cotton balls or Paper towel
Ziplock Bag
Cup
Water
Painter's tape
Window(lots of sun)

Reminder what a seed needs to germinate:

-  1. Moisture
-  2. Warmth
-  3. Oxygen

INSTRUCTIONS

- 1) Soak seeds in cup with water over night.
- 2) Dip cotton balls or paper towel in water, squeeze to drain excess water.
- 3) Place seeds in damp cotton balls or paper towel and place in Ziplock bag.
- 4) Tape sealed bag onto a sunny window .
- 5) Observe and record results daily.

Bag can be decorated with construction paper to look like a house

