# WEEK 4 LEARNING ABOUT SOIL



## LESSON PLAN INFORMATION







- Have you noticed any changes with your plant?
- Can you see any signs of growth?



 Make sure to water your plant and don't let the soil get too dry or wet!



• You may also need to thin your plants.









#### Click on the link below to watch the video:

**Who Needs Dirt** 

#### Click on the link below to watch the video:

#### **Soil Formation**

- Soils sustains ecosystems, agriculture, and human societies.
   An important part of soil is organic matter. Soil organic matter consists of decomposed and decomposing remains of organisms, which give soil a dark colour and spongy texture.
- Soil that has organic matter makes it more resistant to erosion because all the soil and compost parts will be more tightly bound together.

#### **Questions to consider:**

- What is soil made of?
- (Answer: dirt, mud, rocks, sand, etc.)
- Where does it come from?
- (Answer: crushed up rocks.)
- Why do plants need soil?
- (Answer: for their roots, to get water, for nutrients.)





### **ACTIVITY:**

Soil as a Finite Resource

#### Materials:

- 32 cheerios or equivalent food item
- 1 cup to contain cheerios
- napkin
- world map or globe

#### **Instructions:**

- Begin by examining the map, noting the amount and proportion of water and land in the world.
- Take 32 Cheerios and place on the napkin.
- Seek input on the estimate of how much land exists compared to water. About <sup>3</sup>/<sub>4</sub> of the world is comprised of bodies of waters: oceans, lakes, rivers and seas with the remaining <sup>1</sup>/<sub>4</sub> being land. Split the number of Cheerios according to this proportion (24 for water; 8 for land). Place the 24 Cheerios into the cup.
- Of the 8 remaining Cheerios, estimate how much of the land is suitable to live and produce food on and what is not. The split is about half and half. Put 4 Cheerios back into the cup, representing the land that is not suitable for human habitation.
- Focusing on the remaining 4 Cheerios, one represents the land that is not suitable for food production as it is too rocky or of poor soil quality; another is for the area that is too wet for food production; with another representing the area where humans live and have developed homes, cities, malls, roads and other living places. Place 3 Cheerios back into the cup.
- The remaining and last Cheerio represents all the area on Earth that is suitable for food production.