



Sprouting Seeds Lab

Investigation Question: Where does the mass of a plant come from?

Learning Goals:

- Investigating scientific phenomenon
- Analyzing Data
- Constructing Explanations
- Evaluate and Communicate Information

Day 1

1. Measure the mass of the empty cup and empty ziplock (subtract these off later)
2. Fill the plastic cup with soil to about 1 inch from the top.
2. Measure the mass of completely dry soil.
3. Measure ____ mL of water in a graduated cylinder and find the mass.
4. Pour the water into the soil and let it soak in.
5. Measure the mass of the seed.
6. Plant the seed in the cup about as deep as the seed is thick.
7. Place the cup in a ziplock fill the bag with air and seal.
6. Measure the mass of the whole set-up (subtract the mass of the cup and bag).

Last Day

1. Measure the mass of the whole set-up
2. Remove the plant from the soil and measure the mass
3. Measure the mass of the moist soil that is left
4. Place the soil in an aluminum pan and place on the hot plate on low. Heat (stirring lightly with a popsicle stick) until the soil is completely dry.
5. Measure the mass of the dry soil
6. Subtract #3 - #5 to find the mass of the water that remained in the soil

Mass of cup _____

Mass of ziplock _____

	Day 1	Day ____	Change
Mass of dry soil			
Mass of water			
Mass of Seed/Plant			
Mass of whole Set-up			