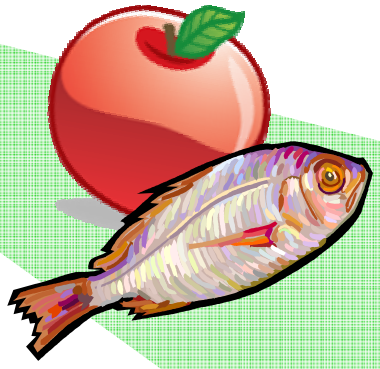
LS – Activity #2

Baggie Biome



QUESTION: What are the components of a biome?

MATERIALS:

2-liter soda bottle, cut in half	potting soil
recloseable plastic bag (gallon)	seeds (assorted)
pebbles	water

PROCEDURE:

1. Get a half of a 2-L bottle. Pour pebbles into the bottom half of the soda bottle. The pebbles should be about 1-2 cm deep.
2. Pour some potting soil over the pebbles. Your biome should have about twice as much soil as pebbles.
3. Make a 1 cm trench down the center of the soil.
4. Select a few of the seeds provided and sprinkle them into the trench.
5. Cover the trench with soil.
6. Add water to the soil until you see the water at the bottom of the pebbles.
7. In the Data section, draw a diagram of your biome.
8. Put the biome in the recloseable plastic bag and seal it.

   You won't need to water your seeds again because the water will recycle itself. The roots of the plant absorb the water and the water travels up the stem to all the parts of the plant. When the water gets to the leaves, some of it evaporates. Some water also evaporates from the soil. The evaporated water forms drops on the bag. This is called condensation. The condensation then falls back down to the ground, like rain. This is called precipitation. This is the water cycle: Evaporation, condensation, and precipitation.

9. Put your biome in a sunny place. Over the next week, make daily observations of your biome and record your observations in the Data section.
10. After 1 week, draw a diagram of your biome in the Data section.

DATA: See next page.

QUESTIONS:

1. What is the difference between an ecosystem and a biome?

2. What are the non-living components of your biome?

3. What are the living components of your biome?

4. How many days did it take for your seeds to sprout?

5. The plants in your biome will eventually run out of carbon dioxide. What would you need to do to keep your baggie biome going for a long time?

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DATA:

BAGGIE BIOME - DAY 1	**BAGGIE BIOME – DAY 7**

DAY	OBSERVATION
1	
2	
3	
4	
5	
6	
7	