


**Name:**

# Investigation Journal




Day 1 Date \_\_\_\_\_

**Video 1**

 Describe what you see or notice.

 Why do you think this is happening?

 What does this make you wonder? What questions do you have about this?

**Video 2**

 Describe what you see or notice.

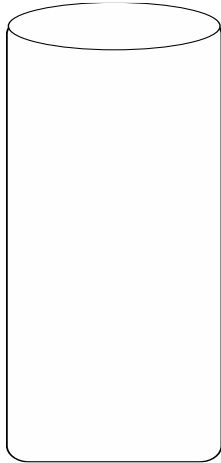
 Why do you think this is happening?

 What does this make you wonder? What questions do you have about this?

**What happened to the body of the animal when it died?**

Day 2 Date \_\_\_\_\_

**The bottle today:**



**Describe what you see or notice.**



**Why do you think this is happening?**



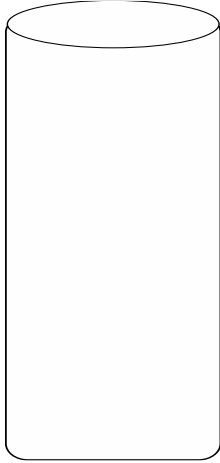
**What does this make you wonder?**

**What questions do you have about this?**

**What should we look for in our bottles that might be related to decomposition?**

Day 3 Date \_\_\_\_\_

**The bottle today:**



**Describe what you see or notice.**



**Why do you think this is happening?**



**What does this make you wonder?  
What questions do you have about this?**

### Day 3: Soil Sample

**Procedure:**

- Place 2 cups of soil in the middle of the newspaper then spread it out so all can see it.
- Use toothpicks/coffee stirrers to move the soil around and separate its components.
- Record observations below. You may also include sketches.



Describe what you see or notice, e.g., color, texture, biotic (living) or abiotic (nonliving) components:



What do you think may be in the soil sample that we can't see?



What does this make you wonder about, or what questions do you have about soil?

S

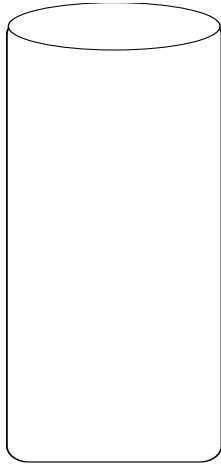
O

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L

Day 4 Date \_\_\_\_\_

**The bottle today:**



**Describe what you see or notice.**



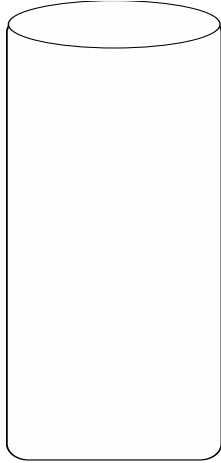
**Why do you think this is happening?**



**What does this make you wonder?  
What questions do you have about this?**

Day 5 Date \_\_\_\_\_

**The bottle today:**



**Describe what you see or notice.**



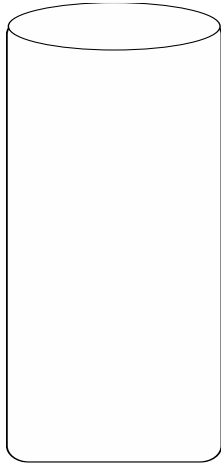
**Why do you think this is happening?**



**What does this make you wonder?  
What questions do you have about this?**

Day 6 Date \_\_\_\_\_

The bottle today:



Describe what you see or notice.



Why do you think this is happening?



What does this make you wonder?  
What questions do you have about this?

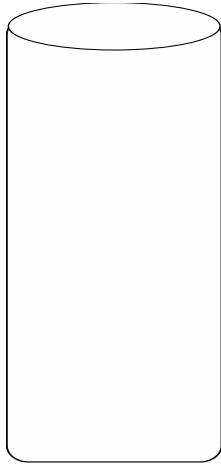
**We know that most producers and consumers are made of matter, so where does the matter go after they die?**



**We know that plants get energy from the sun and animals get energy by eating plants, animals, and other organisms, so where does that energy go after they die?**

Day 7 Date \_\_\_\_\_

**The bottle today:**



**Describe what you see or notice.**

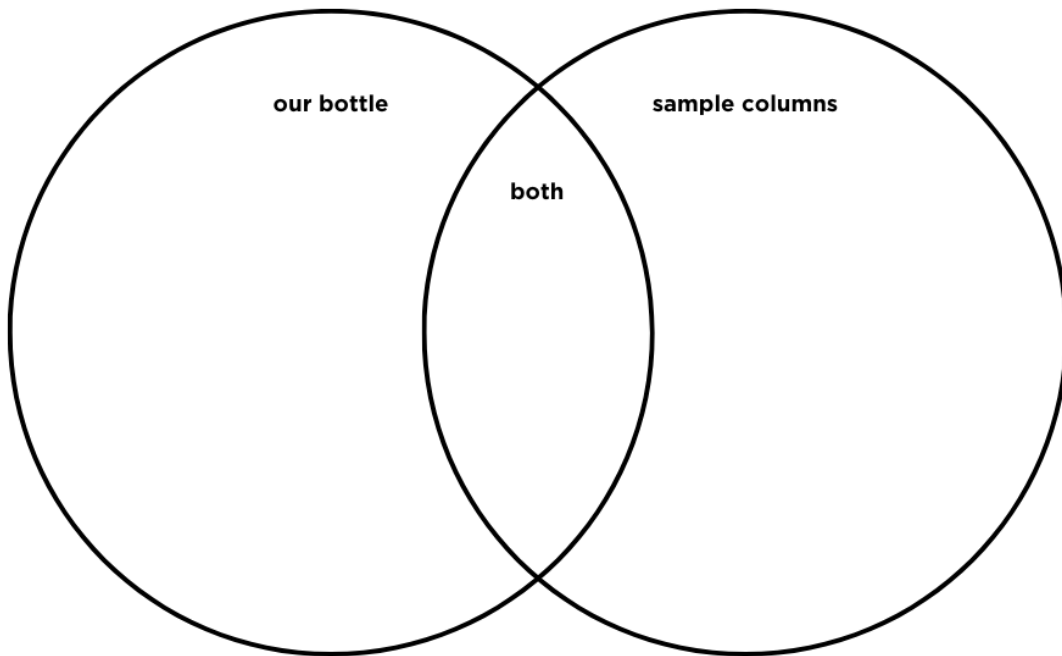


**Why do you think this is happening?**



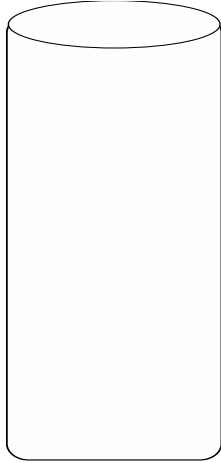
**What does this make you wonder?  
What questions do you have about this?**

**Day 7**  
**Comparing Winogradsky Columns**



Day 8 Date \_\_\_\_\_

**The bottle today:**



**Describe what you see or notice.**



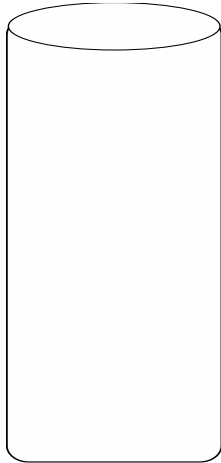
**Why do you think this is happening?**



**What does this make you wonder?  
What questions do you have about this?**

Day 9 Date \_\_\_\_\_

**The bottle today:**



**Describe what you see or notice.**



**Why do you think this is happening?**

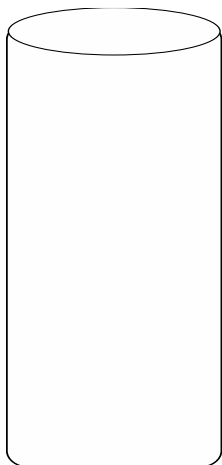


**What does this make you wonder?  
What questions do you have about this?**

**A proposal has been made to create a new landfill in your community. Pair up with a partner and write a short argument for and against the landfill.**

Day 10 Date \_\_\_\_\_

The bottle today:



Describe what you see or notice.



Why do you think this is happening?



What does this make you wonder?  
What questions do you have about this?

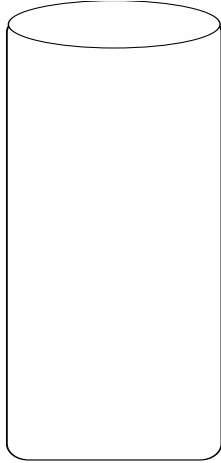
**TODAY'S HEADLINE!**

Write an 8-word headline about the most important thing you discovered today.

## Synthesis Statements

Day 11 Date \_\_\_\_\_

**The bottle today:**



**Describe what you see or notice.**



**Why do you think this is happening?**

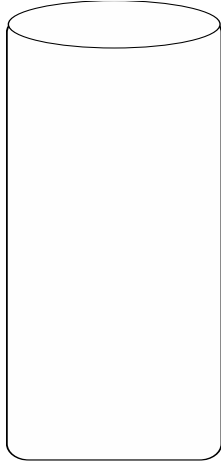


**What does this make you wonder?  
What questions do you have about this?**



Day 12 Date \_\_\_\_\_

**The bottle today:**



**Describe what you see or notice.**



**Why do you think this is happening?**



**What does this make you wonder?  
What questions do you have about this?**

**What has the action of bacteria and other decomposers in your bottle helped you to understand about the cycling of matter and the flow of energy?**