Name_____ Date _____

Don't Muddy the Water!

Objective: You will be able to create a water filtration system and draw conclusions about the best materials to use for a successful water filtration system.

1. Formulate a problem question to be answered through this experiment
Our drinking water supplies may become polluted with sediment and other pollutants. Human beings have devised ways to purify water so that it is safe to drink.

_____

2. Formulate a **hypothesis** _____

_____

_____

3. Materials that you used**.** _____

_____

_____

4. Procedure: *(check off as you complete each step)*

_____1. Look through materials and decide what you want to use for the filters

_____2. Record the materials needed to create your filter.

_____3. Describe the appearance of the water sample **before** filtering it (use chart provided)

_____4. Pour some of the dirty water sample through your filter into the empty cup with no holes labeled A.

_____5. Describe the water's appearance **after** being filtered on the sheet provided.

_____6. Repeat filtering the water as needed. You may also change the materials that you used for your filter as needed.

_____7. Describe the water's appearance **after** being filtered on the sheet provided

5. Data and Results: Explain your observations.

Before Filtering	After Filtering

6. Analyze Data and Draw Conclusions

What method of filtration worked best?

_____

_____

_____

7. Extension of Results

How would you change what you did if you could repeat the experiment? (Write using complete sentences, please.)

_____

_____

_____

Was your hypothesis correct? Why or why not? _____

_____

_____