

TITLE: Wastewater Treatment

Names: _____ Date: _____ Per. _____

PROBLEM: Create a device that cleans wastewater "SLUDGE".

SAFETY: We are MODELING wastewater treatment. At no time should anyone drink anything during this lab!!

OBSERVE:

1. Take a close look at your "SLUDGE" wastewater. Make some observations and list below:
 - a. Color _____
 - b. Texture (chunks?) _____
 - c. Smells like _____
 - d. Gently Stir, what happens? _____
 - e. What is the pH? (use the orange paper) _____

MATERIALS:

beakers	SLUDGE water	Scissors
gravel	Coffee Filters	Baking soda
sand	Paper Towels	Clear Water (for cleaning - not cheating!!)
soil	Rubber Bands	
soda bottles		

DEVISE A PLAN

1. Come up with a plan to use some or all of the materials listed above to "treat" your wastewater (sludge). You want to get it clear and to a pH of 7 if possible.
2. Draw your plan below. (You may want to pour clear water through your device before you test so that your water isn't absorbed by the dry sand)