



Name:

Date:

Class:

Activity-Embedded (Formative) Assessment

5. Place the following processes for treating wastewater in the correct order:
- a. Secondary Clarifier
  - b. Bar Screens
  - c. Aeration Basin
  - d. Grit Chamber
  - e. Disinfection
  - f. Primary Clarifier
6. Sketch and design your home wastewater treatment device in the space below.

Name:

Date:

Class:

7. Testing: Below is a template of a data table that an engineer would use to test your device.
- Think about what tests you might want to incorporate that would test the efficiency of your device – pH (acidity), solids, turbidity (clarity of water), etc.
  - What tests do you think would be the most important to test your device's efficiency? Label your column headings. Just write the Test Type in the column headings. Do NOT fill the rest of the data table.

Rubric							
Test Type	pH (Acidity)	Solids	BOD	DO	Nitrogen Content	Clarity (Turbidity)	Other possible answers:
Initial							
Middle							
Final							

8. Engineering: Create your home wastewater treatment device using the materials provided.
9. Hand this sheet to another group and have them score your project. They should circle the appropriate score AND provide suggestions for improvement.

Rubric			
4	3	2	1
Group's sketch clearly explained their device's water-cleaning process.  It covered all phases of treating blackwater. The model reflects their sketch.	Group's sketch clearly explained their device's water-cleaning process.  It covered all phases of treating blackwater. The model does NOT reflect their sketch.	Group's sketch clearly explained their device's water-cleaning process.  It did NOT cover all phases of treating blackwater. The model does NOT reflect their sketch.	Group's sketch did NOT explain their device's water-cleaning process.  It did NOT cover all phases of treating blackwater. The model does NOT reflect their sketch.
Suggestions for improvement:			