Name: Date: Class:

Activity Follow-Up Questions

Filter Design & Materials

1. Which materials in your filter helped the most to clean the water, and how can you tell?

2. How did the order of your filter layers affect how well it worked?

Flow Rate & Speed

3. Was your flow rate too fast, too slow, or just right, and why does this matter?

Neutralization & pH

4. Did your filter raise the pH (make the water less acidic)? What data shows this?

5. Which neutralizing agent (baking soda or antacid tablets) worked better, and why?

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Copper Corrosion & Real-World Impact

6. Did the filtered water cause the copper to corrode? What does this say about your filter?

Data, Accuracy, & Improvements

7. Were your trials consistent? If not, what might have caused differences?

8. How could you improve the accuracy of your measurements next time?

Engineering Reflection

9. How does this activity model real challenges environmental engineers face?

10. What part of your filter worked best, and what would you improve in the future?