

# Porosity and Permeability Activity Sheet

A. Complete the following table:

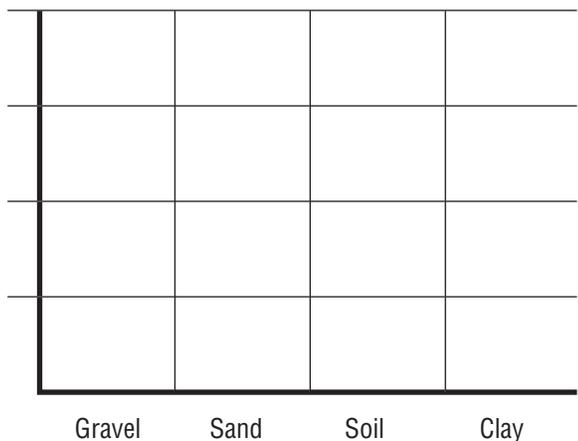
Material	Total Volume (milliliters)	Pore Space (milliliters)	Porosity (% Pore Space)	Permeability
Gravel				
Sand				
Soil				
Clay				

Porosity = (Pore Space ÷ Total Volume) x 100

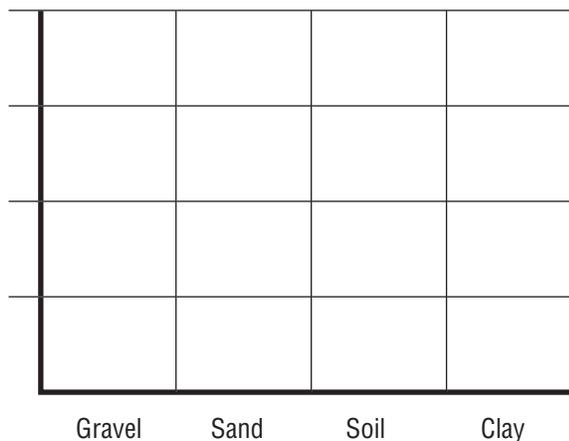
B. Make bar graphs of your results. Label the axes on your graphs (don't forget to add the units).

\* Remember, the material through which water takes the longest time to flow is the LEAST permeable.

**Porosity**



**Permeability**



C. Answer the following questions:

1. Which material is most porous? \_\_\_\_\_
2. Which material is least porous? \_\_\_\_\_



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3. Rate the materials in terms of their permeability.

1 \_\_\_\_\_ (Least permeable)

2 \_\_\_\_\_

3 \_\_\_\_\_

4 \_\_\_\_\_ (Most permeable)

4. How does soil type affect the movement of groundwater?

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5. Do you think soil can help protect groundwater from pollution? If so, how?

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