



Name:

Date:

## Porosity and Permeability

**Vocabulary:** aquifer, gravel, permeability, porosity, sand, saturated, sediment, silt, surface water

**Prior Knowledge Questions** (Do these BEFORE using the Gizmo.)

Two students are given cubic boxes, measuring 10 cm on a side. Robert puts a single glass marble with a diameter of 10 cm in the box. Susan puts 1,000 1-cm glass marbles in her box. (Hint: this is a question of volume.)

1. Whose box has more empty space? Explain.

Roberts because he only puts in one thing that takes up less space than the multiple little things.

2. Whose box will be heavier? Explain.

Susan's because there is less empty space

### Gizmo Warm-up

Some rocks and **sediments** have a lot of empty space in them. This allows liquids such as water and oil to pass through and be stored in them. **Permeability** describes how easily liquid passes through a material, while **porosity** describes how much liquid can be stored in the material. These properties are explored in the *Porosity Gizmo*.

Turn on the **Macroscopic view** of **Gravel**, **Sand**, and **Silt**. **Gravel** consists mostly of rock fragments greater than 2.0 mm in diameter. **Sand** consists of grains that are between 0.0625 and 2.0 mm in diameter. **Silt** consists of grains that are between 0.0039 and 0.0625 mm in diameter.



☒ Sand



☒ Silt



1. Which sediment do you think will allow water to pass through most easily?
2. Which sediment do you think could hold the most water?
3. An **aquifer** is a rock layer that stores and allows the flow of groundwater. Compared to other types of rock layers, how permeable and porous would an aquifer be?

Sand

Gravel

Very permeable and porous

# Porosity Gizmo Answers

**Vinh Xuan Nguyen**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

**Porosity Gizmo Answers:**

Dual-porosity and Dual-permeability Poromechanics Solutions for Problems in Laboratory and Field Applications Vinh Xuan Nguyen, 2010

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