



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

**Christian Drosten**

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.

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## **Table of Contents Porosity Gizmo Answers**

1. Understanding the eBook Porosity Gizmo Answers
  - The Rise of Digital Reading Porosity Gizmo Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Porosity Gizmo Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Porosity Gizmo Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Porosity Gizmo Answers
  - Personalized Recommendations
  - Porosity Gizmo Answers User Reviews and Ratings
  - Porosity Gizmo Answers and Bestseller Lists
5. Accessing Porosity Gizmo Answers Free and Paid eBooks
  - Porosity Gizmo Answers Public Domain eBooks
  - Porosity Gizmo Answers eBook Subscription Services
  - Porosity Gizmo Answers Budget-Friendly Options

6. Navigating Porosity Gizmo Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Porosity Gizmo Answers Compatibility with Devices
  - Porosity Gizmo Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Porosity Gizmo Answers
  - Highlighting and Note-Taking Porosity Gizmo Answers
  - Interactive Elements Porosity Gizmo Answers
8. Staying Engaged with Porosity Gizmo Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Porosity Gizmo Answers
9. Balancing eBooks and Physical Books Porosity Gizmo Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Porosity Gizmo Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Porosity Gizmo Answers
  - Setting Reading Goals Porosity Gizmo Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Porosity Gizmo Answers
  - Fact-Checking eBook Content of Porosity Gizmo Answers
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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