

Name _____



Virtual Lab – Porosity and Permeability

Purpose: To investigate how different types of soil hold water.

Question: How does soil type affect the movement of groundwater?

Background Information: Groundwater is water that moves through soil and rocks below Earth's surface. When groundwater moves through soil, the structure of the soil affects its movement. Groundwater moves through the spaces between soil particles. These spaces are called pores. Not all soils have the same amount of pore space. **Porosity** depends on the number and size of pores in soil. The pores in soil are all connected, allowing water to pass through them. This means that soil is permeable. The ease with which water moves through the soil is called **permeability**.

Explain porosity and permeability in your own words.

Porosity –

Permeability –

A soil with high porosity and many small pores can hold a lot of water, but it takes longer for the water to enter all the pores. This means that when a soil has higher porosity it has lower permeability. A soil's porosity and permeability are important to many people. Farmers must be aware of these soil conditions so they can determine the best way to grow crops. Builders also consider these conditions in the area they plan to build. Environmentalists are concerned with porosity and permeability when there is a risk that a pollutant might be introduced into the groundwater supply.

Prediction: Based on what you know about soil texture, which type of soil do you think will be most permeable? Explain your reasoning.

Procedure:

1. Go to http://www.glencoe.com/sites/common_assets/science/virtual_labs/CT02/CT02.html
2. Follow the steps on the left side of the screen.

Virtual Lab Porosity And Permeability Answers Key

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Virtual Lab Porosity And Permeability Answers Key:

The Science Teacher's Toolbox Tara C. Dale, Mandi S. White, 2020-04-09 A winning educational formula of engaging lessons and powerful strategies for science teachers in numerous classroom settings The Teacher s Toolbox series is an innovative research based resource providing teachers with instructional strategies for students of all levels and abilities Each book in the collection focuses on a specific content area Clear concise guidance enables teachers to quickly integrate low prep high value lessons and strategies in their middle school and high school classrooms Every strategy follows a practical how to format established by the series editors The Science Teacher s Toolbox is a classroom tested resource offering hundreds of accessible student friendly lessons and strategies that can be implemented in a variety of educational settings Concise chapters fully explain the research basis necessary technology Next Generation Science Standards correlation and implementation of each lesson and strategy Favoring a hands on approach this book provides step by step instructions that help teachers to apply their new skills and knowledge in their classrooms immediately Lessons cover topics such as setting up labs conducting experiments using graphs analyzing data writing lab reports incorporating technology assessing student learning teaching all ability students and much more This book enables science teachers to Understand how each strategy works in the classroom and avoid common mistakes Promote culturally responsive classrooms Activate and enhance prior knowledge Bring fresh and engaging activities into the classroom and the science lab Written by respected authors and educators The Science Teacher s Toolbox Hundreds of Practical Ideas to Support Your Students is an invaluable aid for upper elementary middle school and high school science educators as well those in teacher education programs and staff development professionals Energy Research Abstracts ,1992-05 Foundation Engineering Handbook Hsai-Yang Fang,1990-12-31 More than ten years have passed since the first edition was published During that period there have been a substantial number of changes in geotechnical engineering especially in the applications of foundation engineering As the world population increases more land is needed and many soil deposits previously deemed unsuitable for residential housing or other construction projects are now being used Such areas include problematic soil regions mining subsidence areas and sanitary landfills To overcome the problems associated with these natural or man made soil deposits new and improved methods of analysis design and implementation are needed in foundation construction As society develops and living standards rise tall buildings transportation facilities and industrial complexes are increasingly being built Because of the heavy design loads and the complicated environments the traditional design concepts construction materials methods and equipment also need improvement Further recent energy and material shortages have caused additional burdens on the engineering profession and brought about the need to seek alternative or cost saving methods for foundation design and construction *Selected Water Resources Abstracts* ,1974 **International Aerospace Abstracts** ,1998 **Applied Mechanics Reviews** ,1985 **The Oil and Gas Journal** ,1956-11 *Nuclear Science Abstracts* ,1972 *Petroleum*

Abstracts ,1996-02 **Ceramic Abstracts** ,1999 **Physics Briefs** ,1993 **Government Reports Announcements & Index** ,1996 **Journal of Petroleum Technology** ,2008 **Nuclear Science Abstracts** ,1972-04 **Agrindex** ,1995
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Whispering the Secrets of Language: An Mental Journey through **Virtual Lab Porosity And Permeability Answers Key**

In a digitally-driven world wherever screens reign great and quick interaction drowns out the subtleties of language, the profound techniques and emotional nuances hidden within words usually move unheard. Yet, located within the pages of **Virtual Lab Porosity And Permeability Answers Key** a interesting literary prize pulsing with natural feelings, lies an extraordinary journey waiting to be undertaken. Written by a talented wordsmith, that marvelous opus attracts readers on an introspective journey, lightly unraveling the veiled truths and profound affect resonating within ab muscles fabric of each word. Within the emotional depths with this touching evaluation, we can embark upon a heartfelt exploration of the book is core themes, dissect their captivating publishing model, and fail to the effective resonance it evokes strong within the recesses of readers hearts.

<https://movement.livewellcolorado.org/files/detail/Documents/why%20are%20textbooks%20better%20than%20laptops.pdf>

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