

LAB: POROSITY AND PERMEABILITY

1. What are the three major differences between soil samples?

1. _____
2. _____
3. _____

2. Sketch quick diagrams to show the following soil characteristics.

Unsorted	Sorted

Angular	Rounded

Loosely Packed	Tightly Packed

3. What is porosity? _____

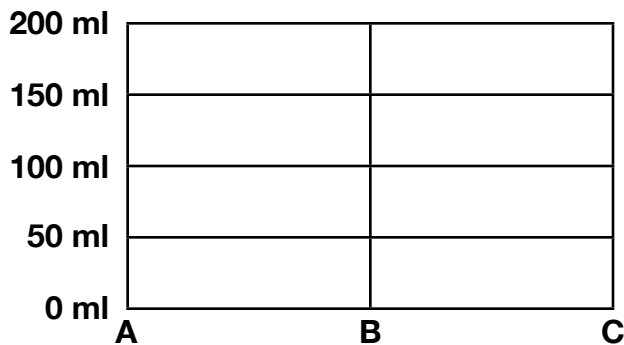
4. What is permeability? _____

Run the experiment and use the animation and the provided data to complete the following:

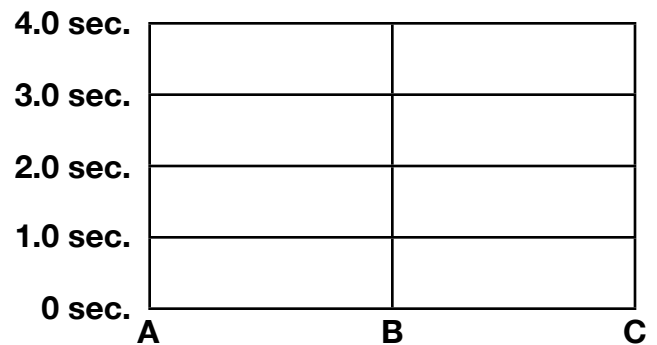
5. What information will help you determine which sample is most porous?

6. What information will help you determine which sample is most permeable?

7. Draw a graph comparing the amount of water that was held by containers A, B, and C.



8. Draw a graph comparing how long it took for containers A, B, and C to drain.



9. What is the relationship between particle size and porosity?

10. What is the relationship between particle size and permeability?

11. How is the porosity and permeability of sample D different from that of samples A, B, and C? Why?
