

Soil—A Natural Filter Worksheet

Data Table

Dye	Filter Material	Color of Filtrate	Volume of Filtrate
Methylene Blue	Soil		
	Sand		
Eosin Y	Soil		
	Sand		

Post-Lab Questions

1. Did the sand samples and/or the soil samples absorb water? Which absorbed the most water?

2. Compare the result of the dyes after filtering through the soil samples. Which dye was readily absorbed by the soil sample? Explain.

3. Why was one dye retained by the soil while the other moved through the soil unaffected?

4. What purpose did the sand serve in this demonstration?