

What Lies Beneath Station Set-Up Instructions

Demo 1: Density Tank

https://youtu.be/Ak9CBB1bTcc?si=_bTWAGGWqxEONvIH

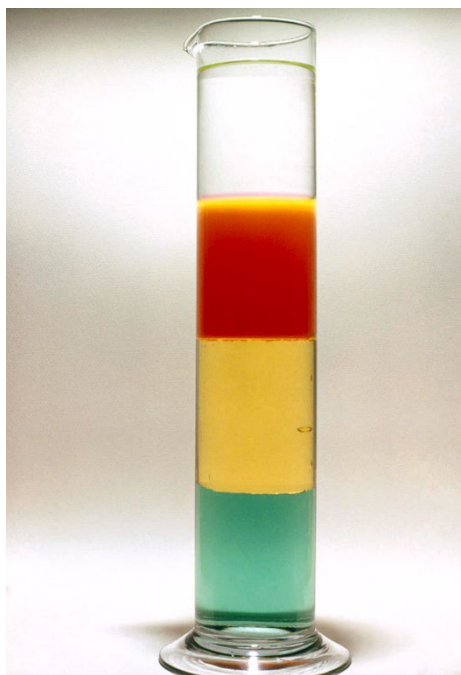


Fill one half of the density tank with warm, red-colored water. Fill the other half with cold, blue-colored water. Slowly pull the divider separating the tank halves to prevent unnecessary mixing. Watch how the layers behave. The warm red water should rise to the top of the tank, and the cold blue water should sink to the bottom.

Station 2: Density Cubes

We used a cube set that had wood, aluminum, brass, and iron cubes.

Station 3: Liquid Layering



Materials:

- Oil (vegetable, lamp, or any oil of your choice)
- Dish soap
- Water
- Honey (could also use corn syrup as long as it is not too viscous)
- Graduated cylinder (50mL works well)
- Beakers

In this example, we use a 50 mL graduated cylinder. Each liquid has been premeasured into a beaker. The students will fill a graduated cylinder with 10 mL of each liquid, recording from 0-10 mL, then 10-20 mL, and so forth.

Station 4: Lava Lamps

Plug in lava lamps at least an hour before class begins.

Teacher Demo 2: Seismic Waves – Mediums

S-waves: Move the medium side to side to create an S-shaped transverse wave

P-waves: Push and pull the medium to show a compression wave

To ensure the best results, stretch the slinky, string, and phone cord tightly. A smooth surface, such as a tile floor or a countertop, works best.

Station 5: Seismic Wave Simulation

<https://tinyurl.com/ymy928dh>

<https://youtu.be/hyoLYPvwA3o>

