

Defying Gravity

Materials: 2 test tubes (one large and one small), 10 mL graduated cylinder, beaker, bucket, water

Procedures:

- ()1. Fill the large test tube with water
- ()2. Add 2 mL. of water to the small test tube.
- ()3. Working over the bucket, place the smaller test tube into the larger test tube and allow it to sink until it stops by itself.
- ()4. Invert the large test tube. Record your observations
- ()5. Leave your equipment exactly as you found it. If you have difficulty removing the small test tube from the larger one, try using a pencil to apply pressure to the small tube and slide it out.

Observations:

- ()1. What happened to the small test tube when the large test tube was inverted?
- ()2. What left the large test tube when it was turned upside down?

Follow-up:

- ()1. Do you think something was trying to enter the large test tube? If so what?
- ()2. Attempt to EXPLAIN what happens when the test tubes are inverted. Include labeled diagrams with your explanation