Materials

- Test tube
- Test tube rack
- Scoopula

- Calcium carbonate (solid)
- Hydrochloric acid

- 1. Pour 1 cm of hydrochloric acid into the test tube.
- 2. Use the scoopula to add a small amount of calcium carbonate to the test tube.
- 3. Record observations, then rinse the contents of the test tube down the drain.

<u>Materials</u>

- Test tube and stopper
- Test tube rack
- Scoopula

- Copper(II) sulfate
 (solid)
- Distilled water

Procedure

- Use the scoopula to collect a few crystals of copper(II) sulfate and add to the test tube.
- 2. Add about 1 cm of distilled water to the test tube.
- 3. Put the stopper in the test tube and shake gently. Record your observations.
- Put the test tube into the test tube rack at Station 3.

Materials

- Test tube rack
- Eye dropper
- Evaporating dish
- Ring clamp

- Wire gauze
- Bunsen burner
- Copper(II) sulfate
 (solution)

- Use the eye dropper to place three drops of the copper(II) sulfate solution into the evaporating dish.
- 2. Place the evaporating dish on the ring clamp and wire gauze. (**Caution!** It may be hot!
- Heat the evaporating dish gently over a low flame. When the liquid has evaporated, record observations.
- 4. Remove the evaporating dish from the wire gauze and clean in the sink when cool.
- 5. Place the test tube with the remaining solution in the test tube rack at Station 4.

<u>Materials</u>

Test tube rack

Tweezers

• 50-mL beaker

Steel wool

- 1. Using the tweezers, add a small amount of steel wool to the beaker.
- Pour the copper(II) sulfate solution from the test tube into the beaker.
- 3. Record your observations.
- 4. Empty the beaker into the waste bucket, then rinse out the beaker and test tube in the sink.
- 5. Place the test tube into the rack at Station 2.

Materials

- Test tube
- Test tube rack
- Scoopula

- Hydrogen peroxide (3%)
- Potassium iodide (solid)

Procedure

- Pour about 1 cm of hydrogen peroxide into the test tube.
- 2. Use the scoopula to add a <u>small</u> amount of potassium iodide to the test tube.
- 3. Record your observations, then rinse the contents of the test tube down the sink.

Materials

- Test tube
- Test tube rack
- Silver nitrate (solution)
- Copper (solid)

- Add about 1 cm of silver nitrate solution to the test tube.
- 2. Place a small piece of copper into the test tube.
- 3. Shake gently for one minute, then record your observations.
- 4. Empty the test tube into the waste bucket, then clean the test tube in the sink.

Materials

- Test tube
- Test tube rack
- Scoopula
- Thermometer

- Ammonium nitrate (solid)
- Distilled water

- 1. Add about 2 cm of distilled water to the test tube and measure the temperature of the water.
- 2. Use the scoopula to add a small amount of ammonium nitrate to the water.
- Use the thermometer to <u>gently</u> stir the water. Measure the temperature when it stops changing.
- 4. Record observations, then rinse the contents of the test tube down the drain.

<u>Materials</u>

- Test tube
- Test tube rack
- Scoopula
- Thermometer

- Calcium chloride (solid)
- Distilled water

- 1. Add about 2 cm of distilled water to the test tube and measure the temperature of the water.
- 2. Use the scoopula to add a small amount of calcium chloride to the water.
- Use the thermometer to <u>gently</u> stir the water. Measure the temperature when it stops changing.
- 4. Record observations, then rinse the contents of the test tube down the drain.

<u>Materials</u>

• 250-mL beaker

• Tap water

Magic flower

- 1. Add about 2 cm of water to the beaker.
- 2. Drop the magic flower <u>petal-side up</u> into the beaker.
- 3. Record observations, then empty the beaker and put the flower into the garbage.

Materials

• None

<u>Procedure</u>

Rest station – use this time to start the questions on the back of the page and to make sure your observations are complete.