

 Water Discovery Box

States of Water

Materials:

- Hot Plate
- 2 Pyrex Glass Beakers / Small Sauce Pan
- Water
- Ice
- Metal Cookie Sheet
- Plastic Freezer Bag

Directions:

- Place Pyrex glass beaker on hot plate.
- Fill to one half with ice.
- Discuss with students the properties of solids, liquids, and gases.
- Turn hot plate to medium heat and observe ice melting into liquid.
- Turn heat on hot plate up to medium high and observe liquid evaporating into water vapor, which is a gas, as water boils.
- Place six cups of ice into a plastic freezer bag and place on top of cookie sheet.
- Hold cookie sheet over boiling water so that water vapor as a gas rises against the bottom of the cold cookie sheet. The cold metal should condense the water vapor/gas back into liquid water.
- Hold cookie sheet at an angle so that condensation flows into the second beaker. Returning the water from a gas to a liquid.

