

Objective

By the end of this lesson, you will understand the water cycle and be able to explain each stage with confidence.

Materials and Prep

- Clear glass
- Water
- Blue food coloring
- Heat source (stove or microwave)
- Pen and paper for notes

No prior knowledge required, just a curious mind ready to learn!

Activities

- **Observing Evaporation:** Fill a clear glass with water, add a few drops of blue food coloring, place it under a heat source, and observe what happens.
- **Condensation Experiment:** After observing evaporation, leave the glass to cool and watch as water droplets form on the sides of the glass.
- **Precipitation Simulation:** Pour the water from the glass back into a pan, heat it again, and watch as the colored water evaporates, condenses, and then precipitates back into the pan.

Talking Points

- **Evaporation:** "Evaporation is when water changes from a liquid to a gas due to heat energy from the sun."
- **Condensation:** "Condensation occurs when water vapor cools and changes back into liquid water, forming clouds or droplets on surfaces."
- **Precipitation:** "Precipitation is the release of water from clouds in the form of rain, snow, sleet, or hail, completing the water cycle."