

Cloud in a Jar Experiment

Strand 6.3: EARTH'S WEATHER PATTERNS AND CLIMATE

All Earth processes are the result of energy flowing and matter cycling within and among the planet's systems. Heat energy from the Sun, transmitted by radiation, is the primary source of energy that affects Earth's weather and drives the water cycle. Uneven heating across Earth's surface causes changes in density, which result in convection currents in water and air, creating patterns of atmospheric and oceanic circulation that determine regional and global climates.

Standard 6.3.1 Develop a model to describe how the cycling of water through Earth's systems is driven by energy from the Sun, gravitational forces, and density.

Phenomenon: *Cloud is found in a jar.*

Cloud in a Jar Experiment

<https://www.youtube.com/watch?v=oq5yVILTSmI>

To see this happen watch the video.

Materials:

1. Pint canning jar with lid
2. Hot water
3. Hair Spray
4. Ice
5. Food Coloring