

Name _____

Cloud Formation

Part 1. Instructor Demonstration

Describe what you think happened.

Part 2. Cloud Formation Notes

Part 3. Cloud in a bottle experiment

Materials:

- A large jar (such as an extra large mason jar or large pickle jar)
- A rubber glove
- Large rubber band (that will fit around the top of the jar)
- Matches
- Cup with water
- Optional: a black background (poster board, notebook, etc.)

Procedure (needs two people):

1. Pour some water from the cup into the empty jar then roll the jar on its side to coat the inside surface with water.
2. Put the rubber band around the rim of the jar.
3. Lab Partner A: put on the rubber glove and insert this hand into the jar. Lab Partner B: Wrap the cuff of the glove around the mouth of the jar and secure it using the rubber band.
4. Lab Partner A: with your hand still in the glove, ball your fist and pull it upwards (but not out of the jar!).

What do you observe in the jar?

5. Lab Partner B: Undo one side of the glove from the top of the jar, just enough space to drop a match in.
6. Lab Partner B: Light a match and let most of the stick burn. Blow out the match and quickly drop it inside the jar and re-secure the glove around the top of the jar using the rubber band.
7. Lab Partner A: ball your hand into a fist and pull it upward. Now what do you see?

What do you observe in the jar? What happens when you push your hand back into the jar?

Outdoor Observation

Fill in the table below as you take your outdoor cloud observation.

Date: _____ Time: _____

Eighths of the sky covered by clouds: _____

	What directions are they in?	What cloud types do you see?	Give a short description of the clouds you see and their coverage.
Low-level Clouds			
Mid-level Clouds			
High Clouds			