

Cloud in a Bottle

Level	Grades 4 and 5
Students	Science class learning about meteorology
Materials	2 liter plastic pop jug, warm water, matches (children will need assistance)
Purpose	To show students how and what makes up a cloud, and how they are formed.
Objectives	<ol style="list-style-type: none">1. Gain a better knowledge on how clouds form.2. Decipher how the match does NOT make the cloud.3. Know that a cloud is not a bunch of smoke.
Activity	<ol style="list-style-type: none">1. Form the students into groups of about three or four and give them a parent or a room helper in each group.2. Give them their supplies needed.3. Have students log on to Ustream.tv and watch a teacher do the experiment.4. Follow the directions (as follows).5. Fill the bottle with about 1/3 of warm water.6. Drop the match down into the bottle quickly twist back on the cap.7. Shake the bottle and then squeeze it repeatedly as hard as they can.8. Gently twist off the cap and then gently squeeze the bottle.9. Observe what happens. Is there a cloud?10. Write a lab report on the experiment.
Evaluation	<ol style="list-style-type: none">1. Completion (5 points)2. Lab report is thorough and accurate (20 points)