

# Cloud in a Jar

**Introduction:** Brighten up a cloudy day with this fun experiment, as we are going to be creating a mini cloud inside a jar.

**Approximate Time:** 10 minutes

**Materials:**

- A jar with a lid
- A match
- Ice cubes
- Hot water (Not boiling)
- Optional: A cutting board or other surface to put the jar on instead of something cold such as granite
- Optional: A flashlight



**Procedure:**

1. Fill about 1/3 of the jar with hot water.
2. Have an adult hold a lit match inside the jar for a few seconds. After, drop the match into the jar and quickly close the jar.
3. Place the ice cubes on top of the lid of the jar.
4. Wait for about one to two minutes and watch as the cloud forms inside the jar.
5. Remove the lid to see the cloud fly out of the jar.

**Tips & Tricks:**

- If a cloud does not appear, then it means there is either too little water vapor or smoke. Try again, but give the water less time to cool off, and put the lid on faster after the match is dropped into the jar. In addition, if you were doing the experiment on a cool surface, you should put something under the jar to prevent heat from escaping out of the bottom of the jar.
- To see the cloud better, you may want to shine a flashlight into the jar.