

Make Fog

You will need:

1. Black Paper
2. A large jar
3. Warm water (optional: add color to better see the results)
4. Matches
5. Bag of ice (enough to cover the top of the jar)

What to do:

1. Tape the black paper on the back of the jar so that you can't see through the jar.
2. Fill one third of the jar with warm colored water.
3. Light the match and hold it over the jar opening for 5 seconds.
4. Drop the match into the jar and cover the jar opening with the bag of ice.

What do you see?

You will see a small cloud form in the jar.

What is fog?

Fog is a cloud that touches the ground or the surface of water.

Why do you see fog?

The warm water heats the surrounding air. Some of the water evaporates into the air forming water vapor. The warm water and water vapor then rises and then immediately cools when it comes in contact with the air cooled by the ice. When the water molecules cool, they slow down and stick together. In other words, condensation is taking place in the jar.

How is fog connected to weather:

As the air in the atmosphere cools, water vapor that is suspended in the atmosphere condenses into water droplets.