Dear Family,

In my class today we made fog in a jar.

Did You Know?

- Fog forms when there is a difference in temperature between the air and the ground with the cooler air currents passing over hot air pressure from moist land or a warm body of water. Since cool air cannot hold as much moisture as warm air, fog forms. In our activity, the cold air from the ice cubes collided with the warm, moist air from the hot water in the jar. These two different temperatures of air collided, causing the water vapor to condense and form a fog. Fog can also form when there is high humidity in the air coupled with enough water vapor in the air.

- Fog is a cloud that has formed close to the Earth. Clouds are a collection of very tiny water droplets. The droplets are so tiny and lightweight, they float in the air. When billions of these tiny droplets come together, they form a cloud. In our activity, the tiny water droplets in the warm air were forced together by the cold ice, creating a cloud.

Ask Your Child:

- Tell me what fog is.

- Describe how you made fog in the jar.

- Explain where clouds come from.

- Tell me about other types of weather.

Activities To Do With Your Child:

- Choose a foggy day to go outside with your child. Talk about how the fog affects what you see and the distance you can see.

- Make fog in a jar at home. Put hot water in the jar, filling it one quarter of the way from the top. Have your child cover the jar with a paper plate, and then put an ice cube on the paper plate. Fog will form inside the jar and water droplets will gather on the glass. The process may take a few minutes; discuss what is happening.

Vocabulary To Use With Your Child: fog, weather, cloud, water vapor, air pressure, current