Season and Weather

Activity1: four seasons

Draw pictures to show the light and dark parts on each globe. Explain why we have four seasons in your own words.

Activity2:

Steps:

1. Partially fill a metal container with water at room temperature.

2. Slowly stir the water with a stirring rod and carefully add small amounts of ice.

3. Watch the outside of the container. Note the temperature at which a thin film of moisture first begins to form.

4. Repeat the procedure two more times. Make sure that you start with water at room temperature and with the outside of the container dry. Calculate the average of the three temperatures.

Question:

Where did the water on the container come from? What do you think happened to the air surrounding the container as you added ice into the water?

Why did the water on the outside of the container appear?

Activity 3: Making clouds

1. Put about 25 ml of hot water in the bottom of a tall slender bottle such as a soft drink bottle.
2. Then place an ice cube so that it rests on top of the bottle
3. Observe what happens.

Question:

What did you observe?

How clouds are formed? Do you think you could also make rain? How?

Watch the video concerning types of clouds, what are the three general types of clouds discussed in the video? Describe what each cloud looks like in your own words

Activity4: What happens when two air masses meet?

1. An aquarium with a glass lid, a cold bag of sand or marbles, and a pan of very hot water.
2. Place the pan of water inside the aquarium next to the cold bag.
3. Cover the aquarium with the plastic wrap. Observe and record what happens.

Question:

What did you observe?

What could happen if two air masses with different temperatures meet?

Activity 5: Making Lightning.

What happened when the balloon had been rubbed against fur?

What did you see when the instructor was spinning the static electricity machine?

According to the video, how is lightening formed? Explain it with your own words.