

- Tell me how a storm cloud looks. (Call on a student. Idea: *It's flat on the bottom and it goes up very high.*) (RF/R)
- Everybody, how high is the top of a big storm cloud sometimes? (Signal.) *Five miles.* (RF/R)

The arrows in picture 3 show how the winds move inside a storm cloud. The winds move water drops to the top of the cloud.

- Everybody, touch the number **1** that is inside the cloud. ✓ (VA)
- That's where a drop of water starts. The wind blows it up to the top of the cloud. Everybody, follow the arrow to the top of the cloud and then stop. ✓ (VA)
- Tell me about the temperature of the air at the top of the cloud. Get ready. (Signal.) *It's freezing cold.* (APK)
- So what's going to happen to the drop? (Call on a student. Idea: *It will freeze.*) (DC)

The drops freeze. When a drop freezes, it becomes a tiny hailstone.

- Everybody, what do we call a drop when it moves up and freezes? (Signal.) *A tiny hailstone.* (RF/R)

The tiny hailstone falls to the bottom of the cloud.

- Everybody, touch the number **2** in the cloud. ✓ (VA)
- That's where the drop freezes. Now it falls down. Everybody, follow the arrow down. ✓ (VA)
- What's the temperature like at the bottom of the cloud? (Signal.) *It's warm.* (APK)

At the bottom of the cloud, the tiny hailstone gets covered with more water. Then it goes up again and freezes again.

- Everybody, when it gets to the top of the cloud, what's going to happen to the water that is covering it? (Signal.) *It will freeze.* (DC)

Now the hailstone is a little bigger. It keeps going around and around in the cloud until it gets so heavy that it falls from the cloud. Sometimes it is as big as a baseball. Sometimes it is smaller than a marble.

- Everybody, touch the number **1** in the cloud. ✓ (VA)
- Pretend that your finger is a drop. Show me a drop that goes around inside the cloud four times. Each time it goes through the top of the cloud, say: "It freezes." Go. ✓ (V)

If you want to see how many times a hailstone has gone to the top of the cloud, break the hailstone in half.



