

# Rain *(cont.)*

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## Making Rain *(cont.)*

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### Experiment 4

**Materials:** stovetop or hot plate, clear glass coffee or tea pot, small plate or saucer, ice cubes, water

**Directions:**

1. Heat water in the glass pot and keep it on low. *Note:* Some glass is not for stovetop use without a wire trivet. Check your pot before you begin.
2. Place several ice cubes on the plate or saucer. Place the saucer on top of the pot of hot water.
3. Observe how the water condenses on the underside of the saucer to create “rain” in the pot.

### Experiment 5

**Materials:** pie tin or small tray, piece of cardboard to use as a cover for the tin or tray, flour, sieve, a rainy day

**Directions:**

1. Smooth a thin layer of flour over the bottom surface of your container (pie tin or small tray). Cover the container with the cardboard and take it outside in the rain.
2. Uncover the container for only two to three seconds, re-cover it, and carefully carry it back indoors. Once inside, uncover the container again and allow its contents to dry completely. This will take a least an hour.
3. Gently pour the completely dried flour from your container, through a sieve. Most of the flour will sift through. The lumps of flour that remain in the sieve are your raindrops.
4. Carefully examine the flour raindrops. Do they look alike? How are they different? Are they the same size and shape? Note that bigger flour lumps were made by bigger raindrops.

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## Measuring Rainfall

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**Materials:** clear, straight-sided jar; permanent marker; ruler; calendar page; pencil; a rainy day (or two)

**Directions:**

1. Measure and mark inch (or centimeter) levels on the outside of the jar with permanent marker so the numbers read from the bottom up.
2. Place the jar outside, away from obstructions, to collect rainwater.
3. At the end of the day, collect the jar, read, and record the day’s rainfall measurement on the calendar page.
4. Pour the water outside and wipe out the jar to use again each day for a month.
5. At the end of the month, total the amount of rain that fell each week. Draw a graph showing how much rain fell each week during the month. How much rainfall did you experience for the entire month?
6. Follow up with the measuring rainfall activity on page 22.

# Rain *(cont.)*

## Measuring Rainfall Activity Page

**Materials:** pencil, ruler, blue crayon

**Directions:** Measure the amount of rain collected in each container. Write that amount in inches (or centimeters) on the line next to the container. Color the rainwater blue.

