A bog is a low-lying piece of land that stays wet much of the year. Cranberries grow on vines in bogs. This means they spend most of the year standing in water.

Let’s build a bog!

A bog has several layers. Each layer plays a role in the bog. These layers help cranberry vines grow. Use the following materials to build a bog in a jar.

**DIRECTIONS:**

1. **Clay is the bottom layer.** In the bottom of your jar, place about ½ inch of clay.

2. **Gravel is the second layer.** Place about ½ inch of gravel on top of the clay.

3. **Peat is the third layer.** Place about 2 inches of foam on top of the gravel.

4. **Sand is the fourth layer.** Place about ¾ inch of sand on top of the foam.

5. Glue several cranberries to one of the pipe cleaners.

6. Push the vine deep into the sand.

7. It’s harvest time! Flood the jar with water. The water should cover the top of the vine.

8. Using a pencil, gently knock the cranberries off of the vine. Observe what happens to the cranberries.

**QUESTIONS:**

1. What role do you think the peat plays in a bog?

2. How does flooding the bog make it easier to harvest cranberries?