

Activity 4.9

Monday, February 17, 2014 9:47 PM

Activity 1 A fault-y setup

Objectives:
After performing this activity, you should be able to:

Materials Needed:

- two sheets of cardboard (or folder)
- fine sand
- ruler
- newspaper (or plastic sheet) as wide as a newspaper page

Procedure:
1. Spread the newspaper on a table. Do the activity on the newspaper.

2. Arrange the two sheets of cardboard edge to edge (Figure 1).

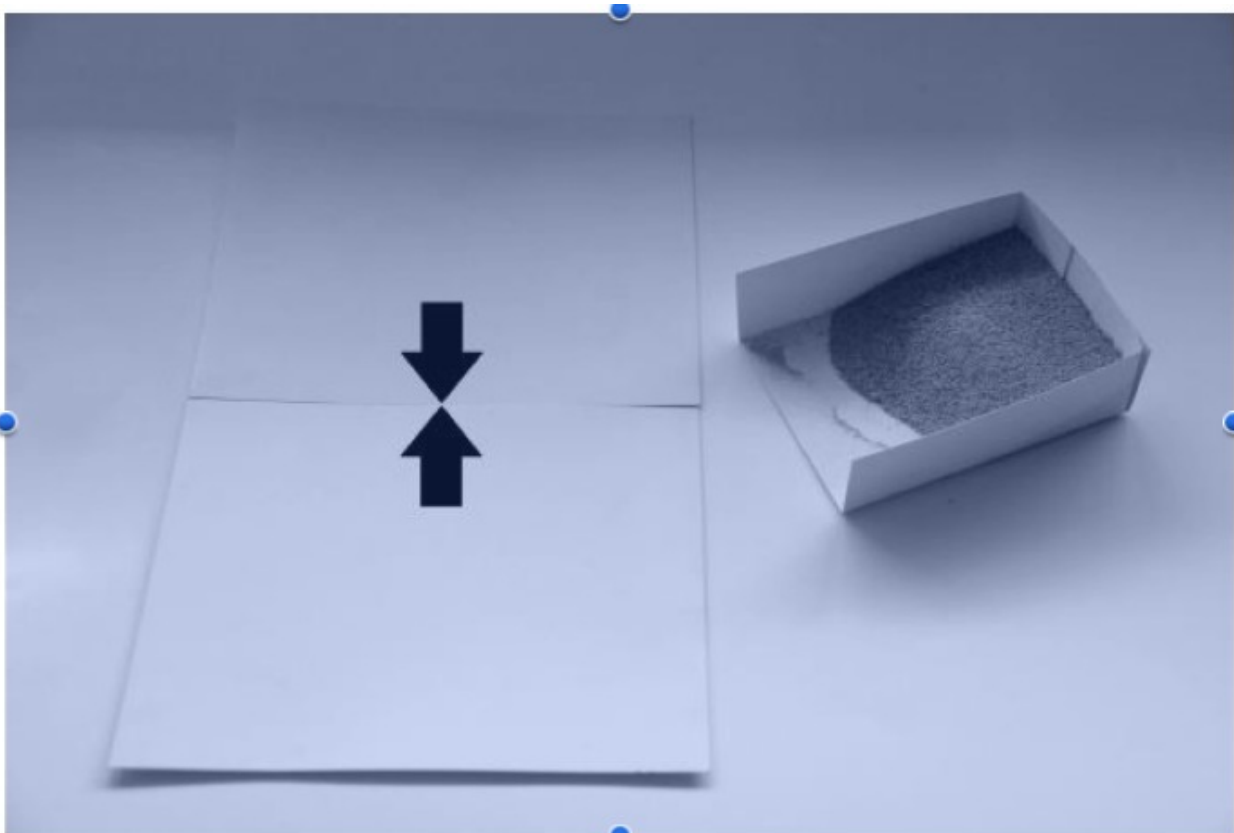


Figure 1. Cardboard sheets placed side by side.

3. Pour sand along the boundary of the two sheets (Figure 2).

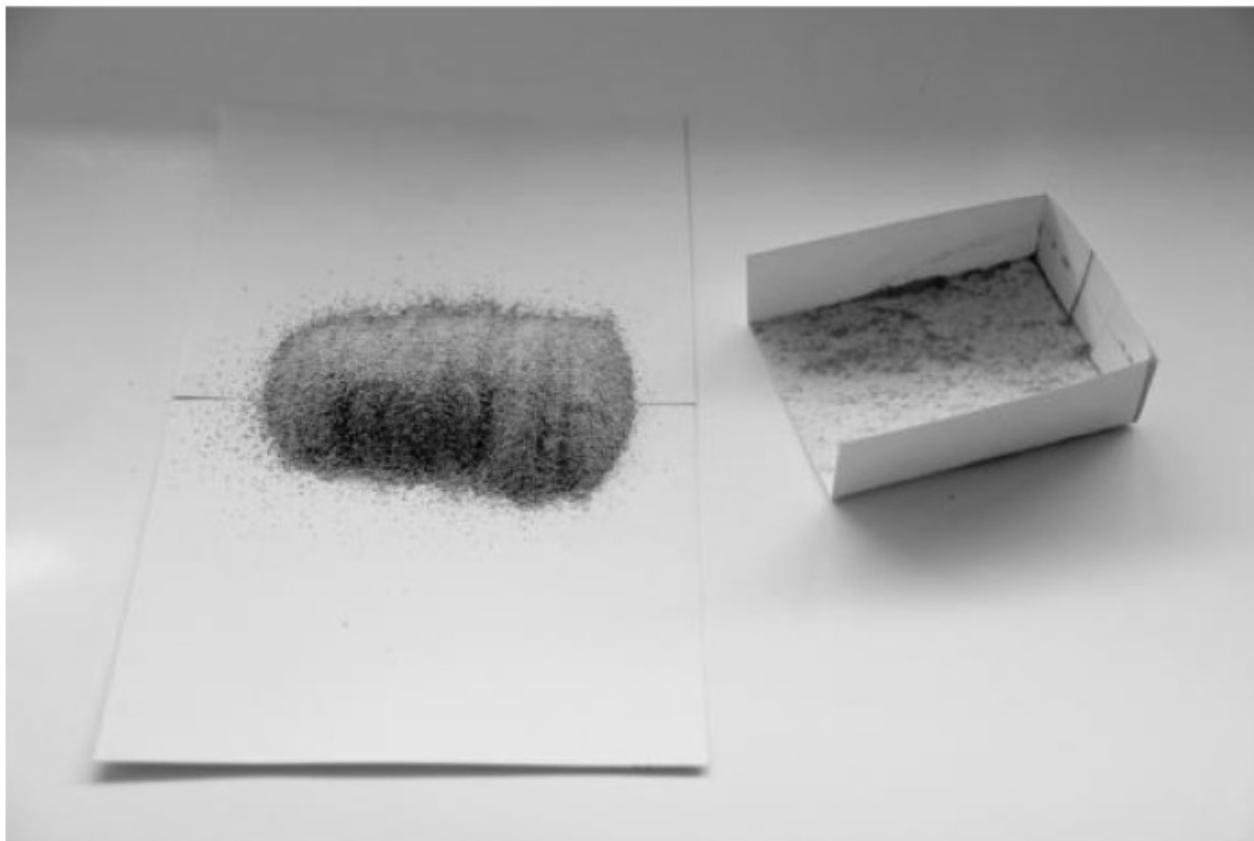


Figure 2. Sand along the boundary.

4. With the ruler, flatten the top of the sand and make two parallel lines.

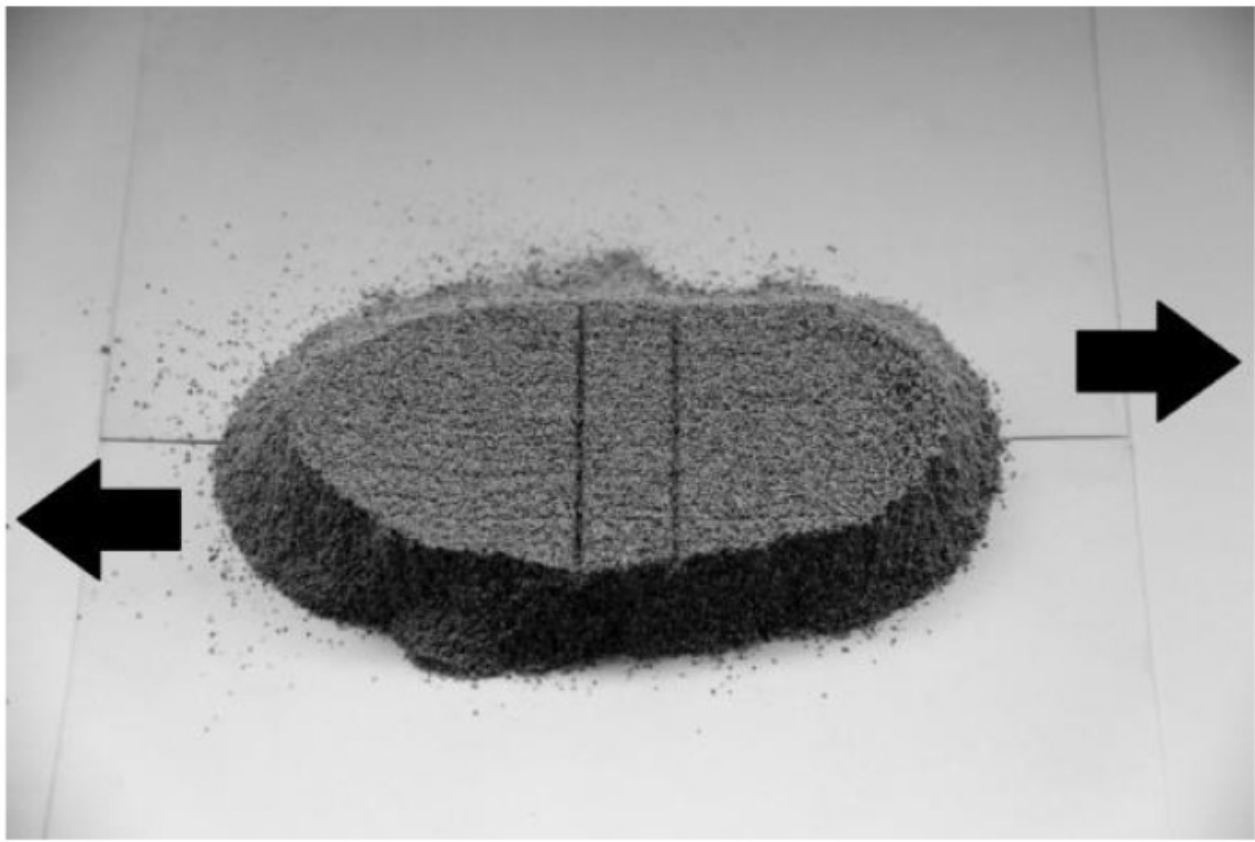


Figure 3. Top of sand flattened.

5. Now, move the sheets slowly in the direction shown in Figure 3.
Q1. As you move the sheets, what is formed in the sand?
Q2. What happens to the lines?



Figure 4. Can you spot the fault? (Image courtesy of the GEER Association and National Science Foundation)