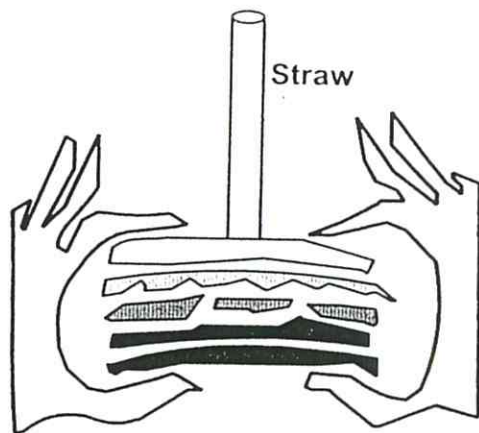


Follow the following STEPS.

- ① Leaving the sandwich flat on the plate, have one student hold the sandwich while the other takes a "core sample" with the transparent straw. Carefully insert the straw straight down, and then slowly withdraw it from the sandwich. *Be sure to keep the straw perpendicular to the table while taking the core sample.* Make a drawing of the sample in the space marked "Original Sedimentary Rock" on the Sedimentary Rock Formation Data Sheet, page 51.



Anticline

- ② Have one student *carefully* bend the sandwich so that it arches upward. This upward bend is called an *anticline*. The other students should slowly take another "core sample" in the middle of the sandwich (at the top of the arch) and at one edge of the sandwich (bottom of the arch). *Be sure to keep the straw perpendicular to the table while taking the core sample.* Students should use opposite ends of the same straw to take their samples. Make a drawing of both samples on the data sheet in the space marked "Anticline".

- ③ Now have one student place his/her thumbs in the middle of the sandwich to make it arch downward. This downward bend is called a *syncline*. The other student should carefully insert the straw and then slowly withdraw it from the middle of the sandwich (bottom of the arch) and at one edge of the sandwich (top of the arch). *Be sure to keep the straw perpendicular to the table while taking the core sample.* Students should use opposite ends of the same straw to take their samples. Make a drawing of both samples on the data sheet in the space marked "Syncline".

Syncline

Fault

- ④ Have the students cut the sandwich in half. Using the toothpicks, have students attach one half of the sandwich to the other half of the sandwich in any fashion they like. The break is called a *fault*. Using the last straw, carefully take a "core sample" of the *fault* in the sandwich. *Be sure to keep the straw perpendicular to the table while taking the core sample.* Make a drawing of the sample on the data sheet in the space marked "Fault".