

Sandwich Geology

You will use sandwiches to model the crust and different ways they can move at fault lines.

Materials:

Your group will need:

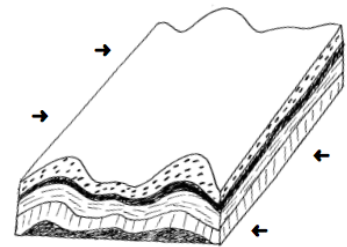
- 4 slices of bread
- 1 paper plate
- 1 plastic knife
- Nutella
- Jam

Instructions for set-up:

1. Place a piece of bread on the plate.
2. Smear some nutella on it in a thin layer.
3. Place another piece of bread on top to create a sandwich.
4. Place another piece of bread on the plate.
5. Smear on some nutella.
6. Put the last piece of bread on top.
7. You should have two sandwiches.

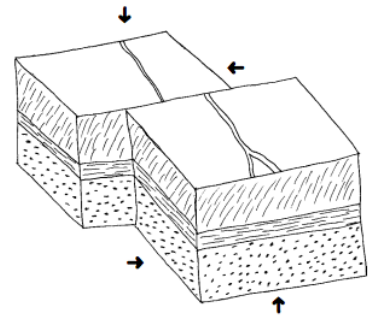
Instructions for modelling a tectonic plate crumpling:

1. Slowly bend the stack up toward the center.
 2. Push in from the edges to mimic the process of folding.
- Folding and faulting of a plate created the Himalayan mountain range and many other ranges in the world.



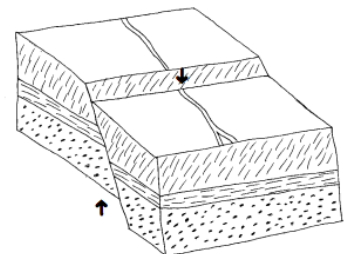
Instructions for modelling a transform boundary:

1. Now cut the stack in half through the middle, forming 2 blocks.
2. Slide them past each other flat on the paper plate to model what happens at a transform boundary.



Instructions for modelling a convergent boundary:

1. Cut the other sandwich into halves.
2. Push the two halves into each other, causing one to slip under the other.
3. This demonstrates a convergent fault by pushing the two blocks against each other and having one block slide downwards against the other.



Instructions for modelling a divergent boundary:

1. Smear some jam onto the middle of the plate.
2. Place the two pieces together on top of the jam blob, and slide them apart to reveal the jam underneath.