



Let's Make a Fault using Cocoa and Flour



Let's make layer (strata) model made of cocoa and flour. A Strata (consist of volcanic ash, sand and clay) formation needs an additional power to create a fault (stratum breaks when a large force is applied).



Let's look how to make fault.



Materials



Cover and clear slide case

(Length 11cm: You can ask in camera shop)

Flour

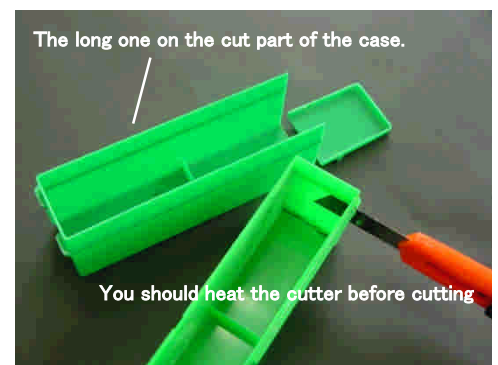
Cocoa powder

Used phone card

Small spoon

Scotch tape

Cutter



* How to do *

How to make the experimental apparatus

- 1 Cut the cover's end about 2mm from the edge.
(You should heat the cutter before cutting)
※ You need to have help from adult.
- 2 Separate the long one on the cut part of the case.

How to experiment

- 1 Put the cut cover's end on the corner of clear slide case and secure it with scotch tape.

- 2 Spread flour in the slide case about 2mm thick.
※ Press the flour using the cut long part of case.
※ Align the height of the flour using phone card. Make a neat layer.



Make first layer of flour

3 Spread cocoa powder above the flour (2~3mm thick). Press again.



Make second layer using cocoa powder

4



Press them



Align the height by phone card



Completed layer



Move the plastic board to the center slowly.



Fault was made!

※ This fault is called "Reverse fault". This experiment comes from Osaka University of Education (attached school) Tennoji High School and referred to Yoshio Okamoto (flour fault model).

 Progress

Let's search for places with faults.

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