

## **To demonstrate how Young Fold Mountains are formed:**

Fig. 1: You will need – atta dough, a tennis or cricket ball, cloth of two different colors (folded thickly, as shown). The atta dough represents the molten magma, the colored cloth pieces represent the ‘crust’ of the earth consisting of the ‘SIAL’ and the ‘SIMA’.



Fig. 2: Wrap the ball with the atta dough as shown in the photo.



Fig. 3: Fix the red cloth piece on the layer of the atta dough. This red cloth layer represents the SIMA layer.



Fig. 4: Fix the piece of green cloth over the red one. This green layer represents the SIAL or the upper most layer of the earth's crust.



Fig. 5: Now a cross-section of the earth's interior is ready. With fingers push the layers gently. This 'push' represents the compressional force created by the 'orogenic'/internal movement, originating in the interior of the earth.



Fig. 6: Mark the wrinkling created by the 'push' of your fingers. This represents folding of the SIAL, SIMA, and also a bit of the Mantle.



Fig. 7: With consecutive pushes, folds rises to form the young mountains.

