

## Plunging Anticlines and Synclines

### Instructions:

1. For best results, copy this pattern onto cardstock.
2. Before cutting out the model, color the parts using the coloring key.
3. Cut along the solid lines.
4. Use a blunt pair of scissors to crease along the dashed lines.
5. Glue the tabs to the inside of the model.
6. See image of completed model below.



Image of completed model

### Anticlines and Synclines

Anticlines and Synclines are folds in sedimentary rock layers caused by compression forces. These forces operate on a large scale and can be responsible for the formation of entire mountain ranges of folded strata. Anticlines are upward folds shaped like arches. Synclines fold downwards, and are shaped like troughs. As anticlines erode, the older rock layers below are exposed along the axis of the fold. As synclines erode, the opposite occurs, with older rocks exposed at the edges, or farther from the axis of the fold. These anticlines and synclines are plunging downward.

500 m

