**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_**

**Unit 8-Activities and Investigation**

**You must complete the following 4 Activities. It should take no longer than 1 hour.**

**Station A: Type of Folds**

* **Take several sheets of construction paper and make two stacks (all with different colors)**
* **Lay stack on table**
* **Placing your hands on the far edges of the paper, push down on the paper and then push the stacks together**
* **What kind of fold did you just make? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
* **How does the construction paper represent rock layers?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Station B: Type of Folds**

* **Take two blocks on the table and hold them so there is a fault going through them at about 60°**
* **Drape the towel over the blocks**
* **You should the blocks along the fault until the towel forms a fold**
* **What kind of fold is this?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
* **What does the towel represent? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
* **What do the blocks represent? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Station C: Investigation Anticlines and Synclines**

* **Use your book on page 326-327 to answer the questions. Follow the procedures.**
  1. **What type of fold is shown by fold A? In what direction do the limbs dip or tilt from the axial plane?**
  2. **What type of fold is shown by fold B? In what direction do the limbs dip or tilt from the axial plane?**
  3. **In fold A, which rock layer is the oldest shown? Which is the youngest shown?**
  4. **In fold A, at what angle are the rock layers dipping or tilted?**
  5. **In fold B, Which rock layer is the oldest shown? Which is the youngest?**
  6. **In fold B, at what angle are the rock layers in both limbs dipping or tilted?**
  7. **What type of fold did you draw in the blank block diagram on your paper?**
  8. **Is Fold A symmetrical or asymmetrical? Is fold B symmetrical or asymmetrical?**
  9. **Is fold A plunging or nonplunging?**
  10. **If you walk away from the axis on an eroded anticline, do the rocks get older or younger? How do the ages of the rocks change as you walk away from the axis in a syncline?**

**Station D: Types of Mountain Foldable**

* **Use the paper at the station to make a foldable about the types of mountains**
* **See the diagram below for how your flaps should be labeled**
* **On the backs of those flaps, write the corresponding information.**