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

**Geology Unit 8 Homework**

1. **What is the difference between stress and strain?**
2. **What are the 4 factors that influence rock deformation?**
3. **What is the difference between brittle and ductile deformation?**
4. **Which types of rocks usually undergo ductile deformation?**
5. **What is the difference between compressonial, tensional, and shear stress?**
6. **What is the difference between anticlines and synclines?**
7. **What is a monocline?**
8. **Why don’t anticlines always appear as hills, even though the rocks beneath the surface are folded upward?**
9. **What is the difference between a normal and reverse fault?**
10. **What is a thrust fault?**
11. **What is a strike slip fault?**
12. **What is orogenesis?**
13. **How are folded mountains formed? What is the major stress acting on the rocks?**
14. **How are fault-block mountains formed? What is the major stress acting on the rocks?**
15. **What is the difference between grabens and horsts?**
16. **What is a dome?**
17. **Mountain building mostly occurs at what type of plate boundary?**
18. **What does ocean-ocean convergence produce?**
19. **What does ocean-continental convergence produce?**
20. **What is an accrectionary wedge?**
21. **What does continental-continental convergence produce?**
22. **What type of mountains are produced at divergent plate boundaries?**
23. **What type of stress would be acting at divergent boundaries?**
24. **If mountains are not formed at plate boundaries, what formed them?**
25. **What is accretion?**
26. **What is a terrane and where does this occur in the US?**
27. **What is isostasy?**
28. **What is isostatic adjustment?**
29. **During isostatic adjustment, will thicker or thinner material float higher?**
30. **How does the theory of plate tectonics help explain the existence of marine fossils in sedimentary rocks on top of the Himalayas?**