

**Zuni sequence – Jurassic and Cretaceous**

1. What orogenies occurred during the Jurassic? Where? What is the evidence?
2. What orogeny occurred during the Cretaceous? Where? What is the evidence?
3. What orogeny occurred at the end of the Cretaceous, beginning of the Tertiary and where is the evidence?
4. What ore deposits are associated with the above orogeny here in Arizona?
5. What major group of animals developed strongly in the Jurassic?
6. When did the birds first appear in the fossil record?
7. Describe the Jurassic paleogeography. What ocean opened first?
8. When did the Gulf of Mexico start to form and what were some of the earliest deposits? What environment did this represent?
9. How is that deposit important to the preservation of oil?

10. What was the environment like in western North America? What type of sandstone was important and what was its environment? Where was this environment located with respect to the equator and the trade winds and dry conditions?
11. What were some of the famous dinosaurs of the Jurassic?
12. What national parks capitalize on the scenery of Jurassic rocks?
13. What rocks of Jurassic age occur near Tucson?
14. What major porphyry copper deposit is of Jurassic age in Arizona?
15. Describe the paleogeography of the Middle Cretaceous in the central and western U.S. What types of rock deposits did this produce and how are they used today?
16. What animals made up the reefs of the Cretaceous? What is the composition of the White Cliffs of Dover?
17. What types of rocks were being emplaced deep below the Sierra Nevada Mountains? Why are these rocks at the surface today?
18. What is a batholith and where are the biggest ones now found?
19. Describe the three types of energy resources from the Mesozoic and describe how and when they formed?

20. What are some Cretaceous rhyolite flows near Tucson and what type of environment do they represent?
21. What types of ore deposits are common in southern Arizona and how did they form?
22. What orogeny ended the Zuni sequence?
23. What was the environment all over the world at this time?