Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period\_\_\_\_\_

**WS: Introduction to Chap 21: Fossils & the Rock Record**

1. According to the Introduction to Chapter 21 on p.552, what are the FOUR main things that will be learned during the chapter?
2. Using Figure 21-1 on page 554:
   1. During what period were dinosaurs dominant?
   2. During what period did the first fish show up?
   3. During what period did Pangaea break up? How long ago was that period?
   4. Fish are dominant:
      1. During what period?
      2. What animal first appeared during this same time period?
      3. What land change was occurring in North America during this period?
3. Based on the Law of Superposition, previously discussed during our unit on rocks, what is the name of the youngest layer rock shown in Figure 21-5 on p.558?
4. Based on Figure 21-12 on p.567, what event led to trees becoming petrified wood in Washington?
5. Read the section titled “Index Fossils” on p. 568.
   1. What is an Index Fossil used for?
   2. List 3 characteristics a fossil must have before it can be considered an Index Fossil.
6. Read the section titled “Molds and Casts” on p. 568. Compare and Contrast the terms Mold and Cast. Use a Venn diagram OR answer the following:
   1. Compare (similarity):
   2. Contrast (difference – must describe both terms)
7. Figure 21-15 on p. 568 shows both a mold and a cast of an ancient organism called a trilobite. Part B of Figure 21-15 shows the process that creates a cast. List the FOUR steps shown in Part B:
8. Read the article “Frozen Mammoth” found on p.572:
   1. How many years ago had the mammoth died?
   2. A mammoth is a relative of what animal that lives today?
   3. The mammoth was flown to Siberia for scientists to study. What are scientists hoping to figure out by studying the mammoth?
   4. According to the article, what are 3 possible reasons the mammoth became extinct?
9. Using the Study Guide on p. 573:
   1. In the summary for Section 21.3, what are 2 ways that age of a rock or fossil can be determined?
   2. List 5 vocabulary terms that can be found in section 21.4?
10. On what page can you find a set of 6 questions that review Section 21.2?
11. On what page can you find a set of questions that review all of Chapter 21?