

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_ Bin# \_\_\_\_\_

### **8<sup>th</sup> Grade Science Test 3 – Earth Science Study Guide**

#### **Ongoing science skills and techniques review:**

1. What tool would you use to find the mass of an object?
2. What tool would you use to find the volume of an object?
3. What tool would you use to find the length of an object?
4. What does a line graph show?
5. What does the Y – Axis represent? X- Axis?
6. How many meters are in 16.3 km?
7. Why do we use dimensional analysis?
8. How many significant figures are in 6.305?
9. How many significant figures are in 000.7850?

#### **LT 1. Explain what fossils are and how most fossils form**

10. Most rocks that form from fragmental rock particles are classified as \_\_\_\_\_ rocks.
11. What type of rock are Stromatolites found in?

#### **LT 2. Identify and describe different types of fossils**

12. Describe preserved remains.
13. Describe what a petrified fossil is.
14. Describe what a trace fossil is.
15. What is the difference between a mold and a cast fossil?

#### **LT 3. Describe several ways that scientist determine the relative age of fossils**

16. What is relative age?
17. How do scientists use relative age to date rocks?

#### **LT 4. Describe how geologists use index fossils to date rocks.**

18. What are index fossils? Give an example of an index fossil.

*The diagrams show the index fossils found in rock layers in at least two different locations. Use the diagram to answer questions 19 – 22.*



19. According to the law of superposition, the oldest rock layers at site 1 and 2 are \_\_\_\_\_ layers
20. The youngest rock layer at each location is \_\_\_\_\_ layers
21. What are the index fossils for the layers B and W?
22. Layer F at site 1 and Layer Y at site 2 both contain the fossils for dinosaurs and plants. What can these index fossils tell us about the period in which they were formed?