

Chapter 18 Section 3 Guided Reading

1. A rock is a naturally – formed solid made of one or more _____.

2. There are four characteristics that define a mineral. They are

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3. How many minerals are found on Earth? How many are found in abundance?

4. What percentage of oxygen makes up Earth’s crust?

5. Match the mineral with its respective characteristic:

feldspar _____
 quartz _____
 mica _____
 hornblende _____
 diamond _____
 graphite _____

A – has one cleavage plane, like a book
 B – the most abundant mineral in Earth’s crust
 C – made of carbon, the hardest mineral known
 D – a dark mineral with 2 cleavage planes
 E – second most abundant mineral with no cleavage
 F – made of carbon, but very soft

6. Three well known gemstones that are actually all quartz are _____, _____, and _____.

7. There are several ways to identify minerals based on their individual properties. Two ways are _____ and _____.

8. Complete the following chart:

Mineral	Hardness
Talc	
	2
	3
Fluorite	
	5
Quartz	
	7
	8
	9
Diamond	

9. What is the definition of “hardness?”

10. What is the difference between the streak of a piece of gold and that of pyrite?

11. Match the following rock types:

Metamorphic	form from other pieces of rocks, once living things, or minerals
Sedimentary	form from molten material
Igneous	form from other rocks by great heat and pressure

12. A recycling of solid Earth material is known as the _____.

13. Draw a diagram to show how rocks are recycled.

14. What processes occur to recycle rocks?

15. Describe how these processes can create the three main categories of rocks.