

## Part 1.

1. Modern geology is said to begin in \_\_\_\_\_ with Scots geologist \_\_\_\_\_.
2. He is famous for his doctrine of \_\_\_\_\_.
3. In your own words, explain Hutton's doctrine.

## Part 2.

4. Describe the three types of rocks.

## Part 3.

5. Hot magma which pours out of the crust in a volcanic eruption is called \_\_\_\_\_.
6. Igneous rock which doesn't reach the surface, but instead is trapped in cracks between other rock is called \_\_\_\_\_. Another term for this rock is \_\_\_\_\_.
7. Volcanic rocks are similar to \_\_\_\_\_ rocks, but they lack distinct \_\_\_\_\_.

## Part 4.

8. Magma is a hot \_\_\_\_\_ of \_\_\_\_\_.
9. There are two types of magma, differing in \_\_\_\_\_ composition.

10. One of the most frequently occurring type of magma is called \_\_\_\_\_ because of the high percentage of \_\_\_\_\_. It is \_\_\_\_\_ moving, and forms \_\_\_\_\_ coloured rock when it cools.
11. The second type of frequently occurring lava is \_\_\_\_\_ moving, is called \_\_\_\_\_ because of the high percentage of \_\_\_\_\_, and cools to \_\_\_\_\_ coloured rock.

**Part 5.**

12. Describe the three main sources of sedimentary rock.

**Part 6.**

13. Describe the process of clastic rock formation.

**Part 7.**

14. Describe the process of sediment sorting.

**Part 8.**

15. Describe the differences between *conglomerate*, *sandstone*, and *shale*.

**Part 9.**

16. Describe the process of chemical sedimentation.

**Part 10.**

17. Describe how organic sedimentary rocks are formed.

**Part 11.**

18. What is stratification?

19. The layers in stratified rock are separated by \_\_\_\_\_.

**Part 12.**

20. What are fossils?

**Part 13.**

21. Describe how ripple marks and mud cracks develop.

**Part 14.**

22. Rock which is neither igneous nor sedimentary is called \_\_\_\_\_.

23. Define *metamorphism*.

**Part 15.**

24. Describe what *dynamic metamorphism* is.

**Part 16.**

25. Describe *thermal metamorphism*.

**Part 17.**

26. In the space below, draw and label the rock cycle.

UNIT 5 (CH. 5) → ROCK FORMATIONS ON EARTH

1. UNIFORMITARIANISM
2. ROCK
3. IGNEOUS
4. MAGMA
5. SEDIMENTARY
6. METAMORPHIC
7. PLUTONIC
8. VOLCANIC
9. FELSIC
10. MAFIC
11. CLASTIC
12. CHEMICAL
13. ORGANIC
14. STRATIFICATION
15. FOSSILS
16. REGIONAL METAMORPHISM
17. CONTACT METAMORPHISM