

1. What is the difference between mechanical and chemical weathering?

Mechanical weathering occurs when a rock is physically broken down while chemical weathering occurs when a substance that makes up the rock is chemically changed to a new substance.

2. List and describe the agents of mechanical weathering.

Abrasion – rock and sand particles in wind and water wear away other rock particles.

Frost wedging – Splits rocks apart through the process of water freezing and thawing.

Plant growth – Root growth in the cracks of rocks causes them to split and some roots produce weak acids that chemically weather rocks.

Animal activity – Animals burrow in the ground and break rocks further down.

3. List and describe the agents of chemical weathering.

Carbon dioxide – Forms carbonic acid in rain which then chemically weathers marble and limestone.

Oxidation – Oxygen reacts to cause rust on some rocks.

Acid rain – Forms from coal, oil and gas burning which then chemically weathers rocks.

4. What two factors determine the rate of weathering?

The rate of weathering will be accelerated by a warmer and wetter climate and also depends on the type of rock being weathered.

5. Why do permeable rocks weather easily? They contain connected air spaces, or pores, which allow water to seep easily through them. These pores give increase opportunity for chemically weathering as well as mechanically weather such as frost wedging to occur.

6. How is soil formed?

Exposed bedrock is broken down into various particle sizes (gravel, sand, silt and clay) through the weathering process. The weathered sediment is transported to lower ground by erosion and deposited. Humus is introduced to the soil through organic matter decaying.

7. What is the composition of soil? Gravel, sand, silt, clay and humus (decayed organic matter)

8. What soil particle is the smallest? Clay

Physics Chapter 9 Study Guide Answers

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