8Gc3 Physical or chemical weathering?

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class \_\_\_\_\_\_\_\_\_\_\_\_

When **chemical weathering** happens, a rock reacts with a chemical such as acid in rainwater. A new substance is made.

When **physical weathering** happens, no new substances are made. The rocks do not change into a new substance, but they are

**Biological weathering** is when living things cause rocks to break apart or wear away.

For each diagram, decide what is causing the weathering, and if it is an example of chemical, biological or physical weathering. Fill in the gaps in the sentences using words from the box. You may need some words more than once.

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| 1 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ changes can cause  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ weathering. The rock  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ during the day when it is hot and contracts when it is  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ at night. | 2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ roots can cause  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ weathering. The plant \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ grow into small  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in the rocks, and push  the sides of the cracks apart when they  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ bigger. |
| **3** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ – \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ action can  cause \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ weathering.  Water in in the rock expands when it  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and makes the crack bigger. |  |

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| **4** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ can cause \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  weathering. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in the  rain dissolves parts of the rock. This process is  speeded up if the rain contains a lot of acid.  Rain like this is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and can be caused by burning  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ fuels. |  |

**acid biological chemical cold cracks expands**

**fossil freezes freeze–thaw grow physical plant**

**rain roots temperature water**