|  |  |
| --- | --- |
| **Observing Mechanical and Chemical Weathering** | **Answers** |
| 1. What is weathering? |  |
| 1. What is sediment? (Click on the blue word and go to Details) |  |
| 1. What is erosion? (Click on the blue word and go to Details) |  |
| 1. What are 3 things that all contribute to the gradual process of weathering? |  |
| **How Do Mechanical and Chemical Weathering Change Earth’s Surface?** |  |
| 1. What is mechanical (or physical) weathering? |  |
| 1. Explain the process of ice wedging in your own words |  |
| 1. Explain the process of root growth causing mechanical weathering in your own words |  |
| 1. What is abrasion? |  |
| 1. What are 3 causes of abrasion? |  |
| 1. What is exfoliation? |  |
| **The Properties of Water** |  |
| 1. What atoms make up the compound of water? How many of each? |  |
| 1. How does water contribute to mechanical weathering of Earth’s materials? |  |
| **Chemical Weathering** |  |
| 1. Unlike mechanical weathering, chemical weathering changes what? |  |
| 1. Watch the video. What are the 3 types of chemical weathering? |  |
| 1. Explain the process of oxidation, in your own words. |  |
| 1. Explain the process of hydrolysis, in your own words. |  |
| 1. Explain the process of carbonation, in your own words. (hint: carbonic acid) |  |
| **Rates of Weathering** |  |
| 1. What does the rate or speed at which weathering occurs depend on? |  |
| 1. Using 2 pieces of evidence from the reading explain the main idea of the reading. |  |
| 1. In your own words, explain how the process of mechanical and chemical weathering contribute to the function of the rock cycle. (Hint: think about where in the rock cycle weathering takes place and how different types of rocks are formed.) |  |