Notes: Weathering/Earth Science/Miss Cohn

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Weathering** is defined as:

There are two types of weathering:

1. Physical/Mechanical Weathering:
2. Chemical Weathering:



How fast a rock weathers is determined by:

1. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of material \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ at the surface .
	1. As the surface area \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, the rate of weathering \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. (This means that smaller particle sizes, of the same composition, will weather faster).
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- This refers to the average moisture and/or heat available in a geographic location

Looking at the diagram to the right:

* 1. Strong chemical weathering dominates in areas with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ annual rainfall and \_\_\_\_\_\_\_\_\_\_\_\_ average temperature.
	2. Strong and moderate physical weathering dominates in areas with moderate to high annual rainfall and average annual temperatures that reach below \_\_\_\_\_\_\_\_ C.
	3. Slight weathering of any kind, takes place in areas with \_\_\_\_\_\_\_\_\_\_\_ average temperatures and very low annual rainfall.
1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_:
	1. Chemical:



* 1. Physical:



Key Concept: The more resistant rock will be weathered \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ than the \_\_\_\_\_\_\_\_\_\_ ones. Which layer in the diagram to the right is the most resistant to weathering?

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| --- | --- | --- |
| Types of Weathering | Name and Physical/Chemical? | Description  |
| 2 |  |  |
| usnv9106 |  |  |
| Image result for physical weathering |  |  |
| Image result for physical weathering |  |  |
| mro-1008a |  |  |
| Arbol_de_Piedra |  |  |
| Image result for oxidation chemical weathering |  |  |
| Hollowed-m |  |  |
| Spheroidal weathering by hydrolysis, Holy Island, Anglesey. |  |  |