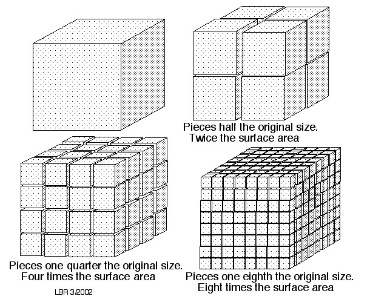
Notes: Weathering/Earth Science/Miss Cohn

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

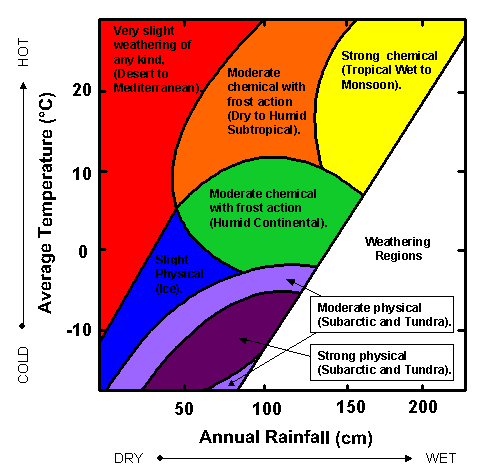
**Weathering** is defined as:

There are two types of weathering:

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



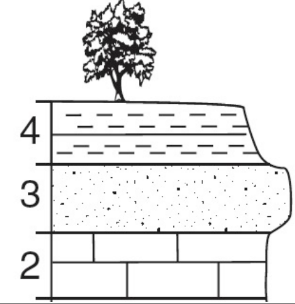
How fast a rock weathers is determined by:

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. [](http://www.google.com/url?sa=i&source=images&cd=&cad=rja&docid=x72q0FHrvzuCvM&tbnid=9o70FJniXETGPM:&ved=0CAgQjRwwAA&url=http://blogs.yis.ac.jp/15larssonj/2012/02/22/weathering/&ei=oRw5UYK-Jofs0QHE4YDADw&psig=AFQjCNFiI7QcSxDkewZZySTXbyh2mTcP4A&ust=1362783777680150)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- 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?

|  |  |  |
| --- | --- | --- |
| 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. |  |  |