Notes #: What is Earth Made of & How Does That Change
Do you think that Earth has always looked as it does now? Why or why not?
answers will vary
The very top layer of the Earth is called the <u>CCUSt</u> . This layer is covered with the soil and
vegetation that you see when you look outside. The landforms that you see have been formed over
long periods of time through the processes of Weathering and
erosion. Weathering is the process that gradually breaks down
materials like rock and minerals. Erosion is the movement of rock, Minerals,
or sediment by wind, water, or ice.
Weathering occurs in several different ways, but scientists consider there to be two main types of
weathering; physical and chemical.  Physical and chemical.
into smaller pieces without a chamical change. With physical weathering the material is broken down
into smaller pieces without a chemical change. With physical weathering, the material stays the same, it is just in smaller pieces. Ice wedging, abrasion, and exfoliation are three types of
Physical weathering. Chemical weathering occurs when rocks or minerals are
broken down when a chemical change causes all or part of the material to change into another
substance. One example of this is <u>OXIDATION</u> , which occurs when elements like iron are
exposed to oxygen causing them to rust. This process makes the rock appear red or orange, and
weakens it making it more likely to crumble. When carbon dioxide combines with water droplets in the
air they form a weak <u>acid</u> that falls to Earth as <u>acid</u> and over time can
<u>dissolve</u> certain rocks and minerals.
When these smaller pieces of rock or mineral move due to wine, water, or
, this is called <u>COSIM</u> . Surface water, groundwater, waves, and wind
are all mechanisms of erosion that carry sediment from one location to another. Combined, the
processes of weathering and erosion have been changing the surface features of Earth for millions of
years.