

Notes- Earth's Changing Surface

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| Uniformitarianism | <p>James _____ came up with the idea in the 1700's</p> <p>The present is the _____ to the past.</p> <p>He said that there are _____, natural processes that changed, and continue to _____, the planet's landscape or _____.</p> <p>For example, given enough time, a _____ could _____ a valley, or sediment could accumulate and form a new _____.</p> <p>Some of the processes include:</p> <ul style="list-style-type: none"> a) the rock cycle b) _____ c) erosion, and d) movement of glaciers |
| The Rock Cycle | <p>Series of processes that _____ one type of rock into _____ type of rock</p> <p>_____ main types of rocks</p> <p>What are the 3 rock types?</p> <p>_____</p> |
| Weathering | <p>weathering – process that _____ down rock based on regular weather patterns such as snow, rain, wind, hot temperatures and cold temperatures</p> <p>When it _____, water accumulates (collects) on the ground and in rocks, if it is _____, that rock may _____ and expand and over time will break down rock</p> <p>Regular rain water slowly _____ minerals that can change shape of rocks</p> <p>Oxygen reacts with iron rich rocks and _____ them</p> <p>There are ways the rate (_____) of weathering can be changed:</p> <p>_____ – weathering occur faster in wet climates</p> <p>type of rock – some minerals dissolve _____ than others</p> |
| Erosion | <p>_____ – process by which natural forces _____ weathered rock, or sediment, from one place to another</p> |

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| Deposition | deposition – the laying down or _____ of eroded _____ |
| Water Erosion | <p>Moving _____ is a major agent of erosion, especially along rivers, at beaches, and underground.</p> <p>river – active _____ channel, that form on mountain slopes, that _____ land and transports sediment (small pieces of rock)</p> <p>waves – _____ the coastlines through erosion by _____ down rock and transporting sand and other sediment; erode land by impact of great force and _____, or grinding away at shore</p> <p>beach – area of _____ sediment carried in by a wave</p> |
| Wind Erosion | <p>_____ causes erosion by deflation (moving _____ sediments), or the process by which wind _____ surface materials by abrasion.</p> <p>A common type of wind-blown deposit is a _____, piles of wind-blown sand</p> |
| Glaciers | <p>_____ – large mass of _____ that formed on land and moves _____ across Earth's surface; form in areas where the amount of snowfall is greater than the amount of snowmelt</p> <p>_____ glacier (or ice sheets) – covers large areas of land and move outward from central location; exist today on Antarctica and _____</p> <p>valley glacier (_____) – long, narrow glacier that forms when snow and ice buildup high in a _____ valley</p> <p>Two processes by which glaciers erode the land and _____ and _____.</p> <p>plucking occurs when a glacier _____ over the land, it _____ up rocks and large boulders dragging them across the land, causing _____, or gouges and _____ in the bedrock</p> <p>When a glacier melts, it creates various _____ which include:</p> <p>_____ – mixture of _____ that is deposited directly on the surface</p> <p>_____ – ridge formed from till deposited at the _____ of glaciers</p> |