Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **3.4 | Erosion Notes**

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| ***Essential Questions*** | ***Answers*** |
| What is erosion? | The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of material by \_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_, or \_\_\_\_\_\_\_\_\_\_\_ on the Earth’s surface. |
| How does erosion differ from weathering? | Weathering \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_the Earth’s material into \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.  Where as, erosion \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the sediments to a new \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. |
| After material is eroded, where does it go? | The sediments \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in one place is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.  Deposition \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ new \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. |

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| **Article - WIND EROSION** | | | |
| What type of particles can wind transport? |  | | |
| What is saltation? |  | | |
| What are sand dunes & where do they form? |  | | |
| Draw a sand dune and describe it’s shape: |  | | |
| How do “cross-beds” form? |  | | |
| **Article - WATER EROSION** | | | |
| What are jetties built for? |  | | |
| What is the most common form of erosion? Why? |  | | |
| What is dredging? |  | | |
| Draw a Jetty: | | | |
| **Video - FORMATION OF THE GRAND CANYON** | | | |
| What river is responsible for forming the Grand Canyon? | | |  |
| How long do scientists believe it took for the Grand Canyon to form? | | |  |
| How far apart are some of the rims of the Grand Canyon? | | |  |
| What agent of erosion is primarily responsible for forming the Grand Canyon? | | |  |
| **Video - GRAVITY EROSION: Landslides – until 2:40** | | | |
| What are landslides? | |  | |
| What could decrease the likelihood of landslides occurring? | |  | |
| Gravity doesn’t work alone. How does water contribute to landslides? | |  | |
| ***Critical Thinking:*** Knowing that landslides occur because of loose soil, what could be done to prevent landslides? | |  | |
| **Video - GLACIAL EROSION – 2:40 until the end** | | | |
| When do glaciers form? | |  | |
| Soil and rocks accumulate in between layers of ice. How does this result in erosion? | |  | |
| What is till? | |  | |
| What are some examples of natural features created by glacial erosion and retreat? | |  | |

How does water cause erosion?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ cause of erosion all over the world.

When water moves across the land as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, it \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ particles of clay, sand and gravel.

When youinclude\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, the water and sediments move \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and becomes more \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

How does wind cause erosion?

Wind is the most active agent of erosion in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

This \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ can easily be picked up and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by the wind.

How does ice cause erosion?

Glaciers move \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Glaciers are also a form of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ because of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

How does gravity cause erosion?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: down slope of rocks and sediments because of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Gravity is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the other 3 types of erosion and makes them more \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_