| Name        | •<br>*:   | Unit 12 Deposition                                      |  |
|-------------|---|---|--|
| Period      | Date  | Forth Science   |  |
| I.          | Deposition - a. results from a loss of _e   | when an agent of erosion deposits (drops) the Sediment. |  |
|             | b. Most deposition takes pl   | ace in MAIO TOX   |  |
|             |   | eposited may under go processes to make them turn into  |  |
|             | Sedimenta   | rock.   |  |
|             |   | ry rock.  drapping                                      |  |
| II.         | Factors that Affect Deposi  | tion /  |  |
|             | a Particle S12  | - the greater the size, the <b>greate</b> the           |  |
|             | settling rate.  |   |  |
|             | b. <b>Particle Shape</b> - the more spherical the shape, the  |   |  |
|             | greater the settling  | rregularly shaped particles settle <b>Slower</b>        |  |
|             | ii Smooth and round   | particles settle <u>Quicker</u> .                       |  |
|             | c Particle den  | site/ - the greater the density, the <b>greater</b>     |  |
|             | the settling rate (if all the   | other factors are the same like size and shape).        |  |
|             | d. Velocity (speed)   |   |  |
|             | i. The faster the med   | ium, the lower the settling rate.                       |  |
|             | ii. The slower the me   | dium, the higher the settling rate.                     |  |
|             | in. Rate and time   |   |  |
|             | 1. The greater the settling rate, the <u>less</u> time it takes.  |   |  |
|             | 2. The lower the settling rate, the <b>more</b> time it takes.  |   |  |
|             | i. Evaporation, temperature changes or an increased amount of dissolved                                 |   |  |
|             | minerals in a body of water would make the water unable to hold any more                                |   |  |
|             | dissolved minerals.   |   |  |
|             | ii. Any more minerals will No+ dissolve and settle to the bottom.                                       |   |  |
| •           | iii. Some minerals ma   | · · · · · · · · · · · · · · · · · · ·                   |  |
|             | rocks.  | Precipitate.  |  |
|             |   |   |  |
| III.        | Sorting of Sediments  a. During deposition sediments of similar size, shape or density get separated  ( |   |  |
|             |   |   |  |
|             |   |   |  |
|             |   |   |  |
|             | body of water and the,,   |   |  |
|             | particles settle out first. The smaller, less dense   |   |  |
|             | particles are carried farther from shore.   |   |  |
| <del></del> | d. Vertical s   | - happens when a landslide dumps                        |  |
|             | sediments into the ocean.   |   |  |
|             | e. Graded De  | edding - happens after a series of vertical sorting     |  |
|             | events  | <i>f</i>  |  |

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