Forces That Move Plants Notes Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Main Ideas/Questions: Notes:***  Class:\_\_\_\_\_\_\_\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Germination - process by which a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ emerges from a \_\_\_\_\_\_\_\_\_\_\_.

* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ first and then the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, which turns into the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Turgor Pressure - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ exerted on a plant’s \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ by water passing into the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

What is tropism? Plant \_\_\_\_\_\_\_\_\_\_\_\_ in response to a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ .

Osmosis -process that causes a \_\_\_\_\_\_\_\_\_\_\_\_\_ (espescially water) to \_\_\_\_\_\_\_\_\_\_\_\_\_ through the cell wall of a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ cell.

What is tropism? - Plant \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in response to a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

What are the types of Geotropism Thermotropism

\*\*\*All can be \_\_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_\_.\*\*\*

tropism? Phototropism Chemotropism

 Thigmotropism

Hydrotropism

What is Geotropism? The \_\_\_\_\_\_\_\_\_\_\_\_ of a plant in response to \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

* Positive Geotropism: the growth of a \_\_\_\_\_\_\_\_\_\_ towards the center of the \_\_\_\_\_\_\_\_\_\_\_\_\_ (down with gravity).

Ex. roots growing \_\_\_\_\_\_\_\_\_\_\_\_

* Negative Geotropism: the \_\_\_\_\_\_\_\_\_\_\_\_\_ of plants away from the \_\_\_\_\_\_\_\_\_\_\_ of earth (opposite the pull of gravity).

Ex. stems growing \_\_\_\_\_\_\_\_\_\_

Why is geotropism -\_\_\_\_\_\_\_\_\_\_\_\_\_\_ growp throught the \_\_\_\_\_\_\_\_\_\_\_\_\_ so \_\_\_\_\_\_\_\_\_\_\_\_\_ can important? get sunlight for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 -It pulls \_\_\_\_\_\_\_\_\_\_\_ down to anchor a plant and allows \_\_\_\_\_\_\_\_\_\_\_ to

 get \_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ found in the soil.

 \*\*\*ROOTS GO DOWN AND SHOOTS GOES UP – NO MATTER WHAT\*\*\*

What is phototropism? The growth response of a \_\_\_\_\_\_\_\_\_\_\_\_ in response to \_\_\_\_\_\_\_\_\_\_\_\_ direction.

* Postive - \_\_\_\_\_\_\_\_\_\_\_\_ light
* Negative - \_\_\_\_\_\_\_\_\_\_\_\_ light

Why is phototropism Enables \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to be in the best importance? \_\_\_\_\_\_\_\_\_\_\_\_ possible to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

adequate (good/enough) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ for photosynthesis.

What is thigmotropism? The growth response of a plant in response to \_\_\_\_\_\_\_\_\_\_\_\_\_\_/\_\_\_\_\_\_\_\_\_\_\_\_ .

Ex. vines growing on a wall or fence

* Positive – toward \_\_\_\_\_\_\_\_\_\_\_\_\_
* Negative - \_\_\_\_\_\_\_\_\_\_\_\_ touch/contact

Why is thigmotropism - plants can \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ energy by not

important?

 structutal \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

What is The growth response of a \_\_\_\_\_\_\_\_\_\_\_\_ in response to \_\_\_\_\_\_\_\_\_\_\_\_.

hydrotropism? Ex. Tree roots growing towards a lake or river.

Why is hydro tropism - \_\_\_\_\_\_\_\_\_\_\_\_ of a plant can get to the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ water

important? and/or to find \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in case of

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

 Summary: (3-5, complete sentences)