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Chapter 22

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| **Across****3.** plant response that causes movement that’s not dependent on the direction of the stimulus **8.** layers of cells directly next to the endodermis toward the center of the root**9.** layer below the epidermal layer **12.** the layer of cells that makes up the outer covering on a plant is dermal tissue**14.** simple compound composed of two carbon and 4 hydrogen atoms **17.** produced in rapidly dividing cells**19.** water carrying vascular tissue composed of specialized cells**20.** long cyndrilical cells with pitted ends**22.** thin cylinder of meristematic tissue, that can run the entire length of roots and stems**23.** one of the first plant hormones to be identified **24.** inner boundary of the cortex is a layer of cells**25.** regions of rapidly dividing cells**26.** causes cell elongation, simulates cell division and affects cell growth  | **Down****1.** main food carrying tissue**2.** contain chloroplasts and make up this tissue **4.** tubular cells that are stacked end to end forming strands of xylem **5.** the two cells that form a stoma**6.** plant cells that lack cytoplasm and other living components when they mature**7.** process where water evaporates from the inside of the leaf to the outside of the stomata **10.** below the palisade mesophyll**11.** plant cells that are often elongated & occur in long strands that provide support for surrounding cells**13.** produces cells that develop tough cell walls**15.** a stalk that attract he’s a blade to a stem**16.** tip of the root is covered by **18.** contains cytoplasm but lacks a nucleus and ribosomes when it matures**21.** most flexible, thin walled cells found throughout a plant |