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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 |