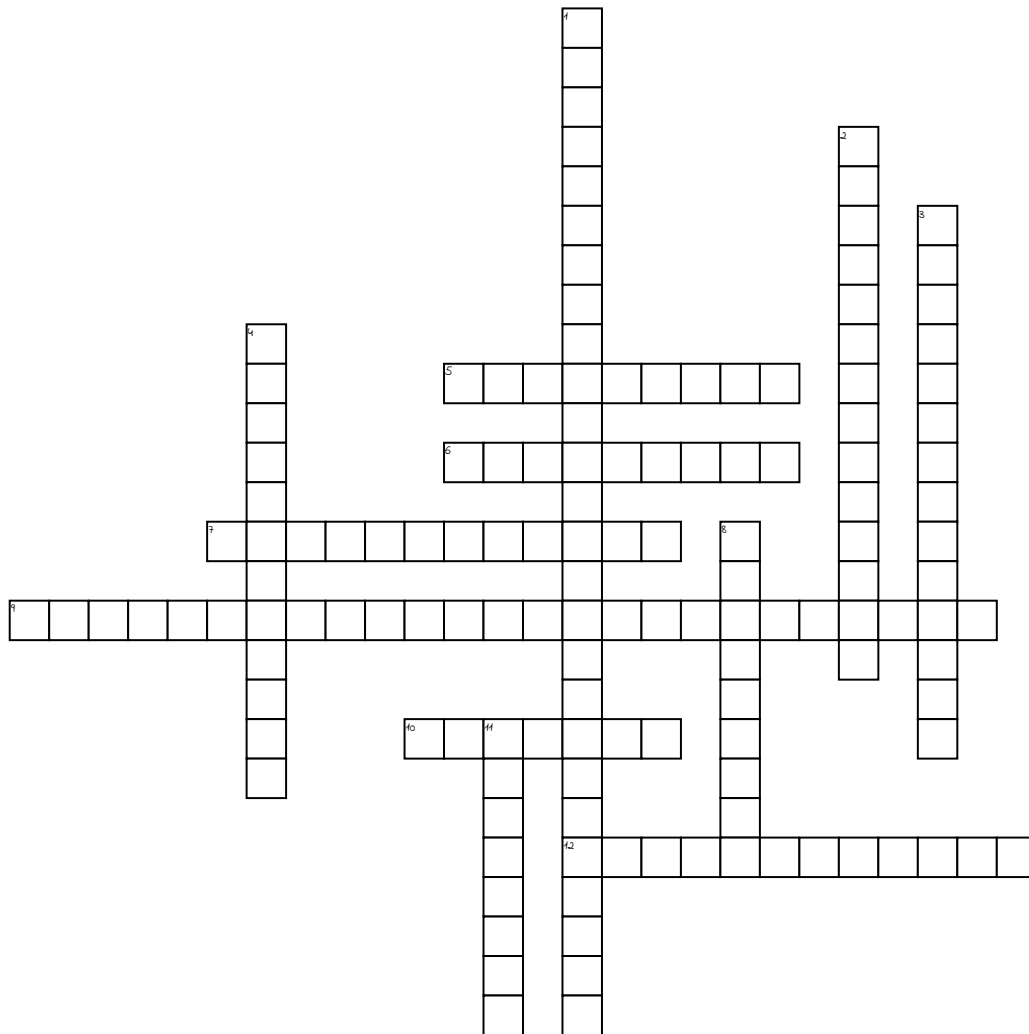


Name: _____

Functions of Plant Cell Parts



Across

5. these synthesize proteins; attach to the surface of the endoplasmic reticulum; consist of RNA and proteins

6. located inside the nucleus; made of proteins, DNA, and RNA; makes ribosomes

7. these organelles conduct photosynthesis; similar to mitochondria, but only are in plants and protista

9. function is to produce proteins for the rest of the cell; has ribosomes attached to it

10. contains the majority of the cell's genetic code (DNA/RNA); coordinates the cell's activities; only in eukaryotes.

12. double layer of lipids/proteins that surround a cell; selectively permeable; controls the movement of substances in and out of cells and organelles

Down

1. main function is to make cellular products like hormones and lipids; detoxifies harmful metabolic byproducts

2. this organelle is responsible for transporting/modifying/packaging proteins and lipids into vesicles; located in the cytoplasm next to the ER

3. stores water and maintains turgor pressure within a plant cell; often the largest organelle; holds materials and waste

4. the powerhouse of a cell; where ATP is made; regulates cellular metabolism; double-membrane bound organelle

8. what all organelles sit in; clear and gel-like appearance; helps move parts (like hormones) through the cell and dissolve cellular waste

11. a structural layer that surrounds cells, just outside the cell membrane; provides structural support and protection; made of cellulose in plant cells

Word Bank

Smooth endoplasmic reticulum

nucleolus

chloroplasts

golgi apparatus

central vacuole

nucleus

Rough endoplasmic reticulum

cell membrane

ribosomes

cytoplasm

cell wall

mitochondria