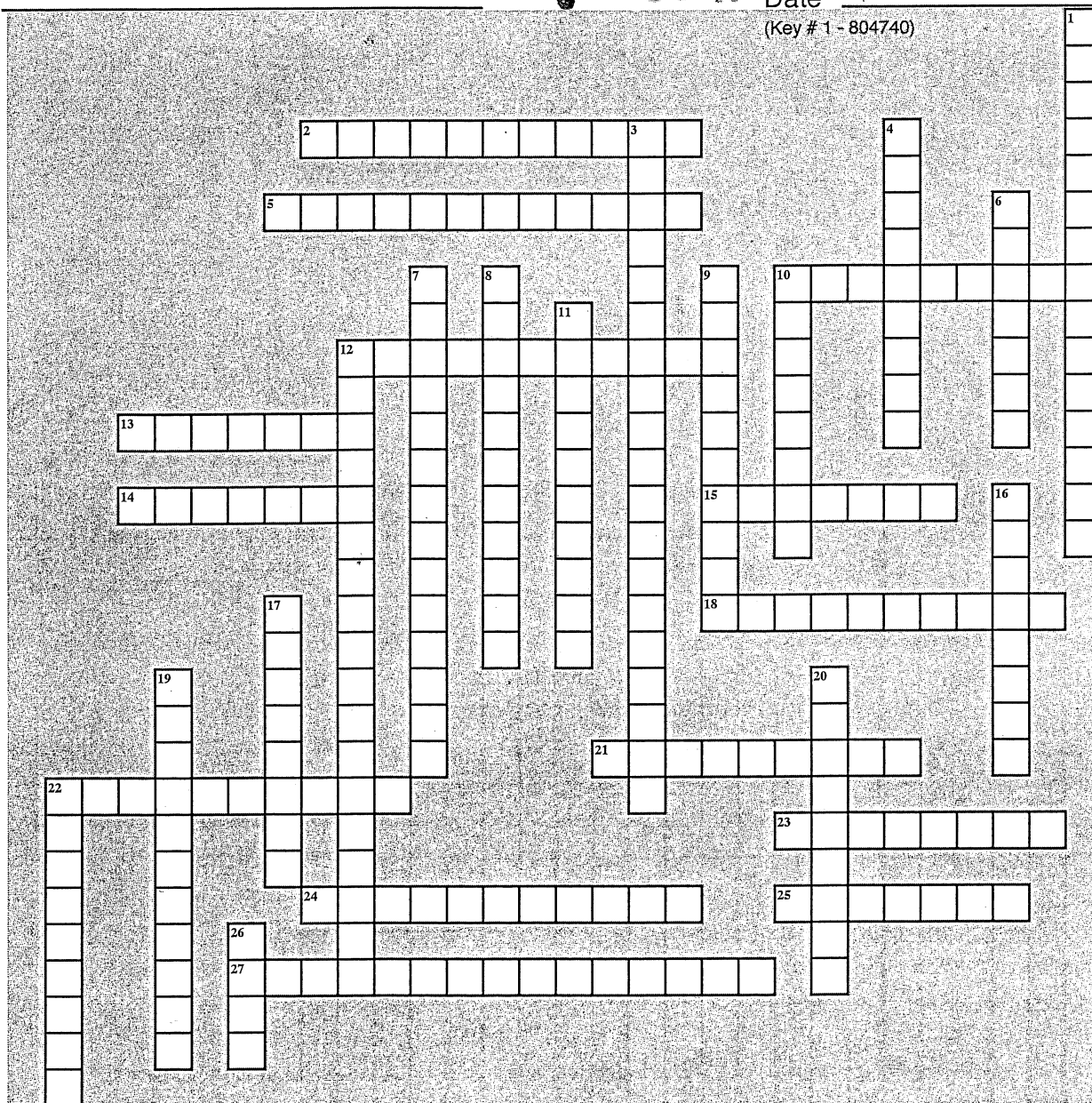


Name \_\_\_\_\_

Date \_\_\_\_\_

(Key # 1 - 804740)



## Across

- 2 stores bile (2 words)
- 5 coating on some axons that speeds up a nerve impulse (2 words)
- 10 gland cell that secretes into the blood
- 12 cell organelle that produces glucose by photosynthesis
- 13 chemically diverse carbon compounds needed in small amounts in the diet
- 14 macrophage lining the sinusoids in the liver; engulfs old red blood cells

- 15 junction between neurons and between neurons and receptor or effector cells
- 18 stores sperm until ejaculation
- 21 smallest blood vessel where materials are exchanged with tissue cells
- 22 node that initiates the heartbeat acting as a pacemaker
- 23 synthesizes and secretes insulin when blood glucose levels are too high; found in pancreas (2 words)
- 24 shape of DNA made of two antiparallel strands (2 words)
- 25 circular piece of DNA
- 27 extremely thin alveolar cells that exchange gases (3 words)

## Down

- 1 genetic disease resulting in the inability to convert phenylalanine to tyrosine
- 3 muscle whose contractions pulls ribcage upwards and outwards during inspiration (2 words)
- 4 blood cell that ingests pathogens
- 6 collects eggs at ovulation; site of fertilization
- 7 cell organelle composed of cisternae and many vesicles; processes proteins for storage or secretion (2 words)
- 8 increases surface area for maximum nutrient absorption
- 9 place on enzyme shaped specifically for a particular substrate (2 words)
- 10 gland cell that secretes to the surface of the body or the lumen of the gut
- 11 thin and permeable cell type in digestive system
- 12 structure in paramecium that collects excess water and removes it by exocytosis (2 words)
- 16 protein that binds to an pathogenic antigen and interferes with reproduction
- 17 protein with hydrophobic and hydrophilic parts spanning the entire cell membrane
- 19 lining of the uterus; becomes vascularized in response to progesterone
- 20 whip-like structure used for locomotion
- 22 valve between the ventricle and the artery
- 26 cell type not fully differentiated; can be coaxed into many cell types