

## CELL REVIEW WORKSHEET

### 1. Matching

|               |                                                                                                                                                            |                  |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <b>G</b>      | 1. internal framework that anchors organelles, gives shape                                                                                                 | A) cell membrane |
| <b>K</b>      | 2. cellular "ropes" made of repeating units of the protein <i>actin</i>                                                                                    | B) cell wall     |
| <b>L</b>      | 3. hollow tubes for transport, movement, made of actin & tubulin proteins                                                                                  | C) centriole     |
| <b>I</b>      | 4. vesicles pinch off these structures; proteins modified and packaged here                                                                                | D) chloroplast   |
| <b>J</b>      | 5. cellular "stomach"                                                                                                                                      | E) chromosome    |
| <b>A</b>      | 6. selectively permeable "doorman"                                                                                                                         | F) cilia         |
| <b>D</b>      | 7. the most important plastid, turns CO <sub>2</sub> , H <sub>2</sub> O, sunlight into glucose                                                             | G) cytoskeleton  |
| <b>T</b>      | 8. membrane-bound spheres that store water & dissolved materials. Membrane surrounding it is called a <i>tonoplast</i> . Plants have a large, central one. | H) flagella      |
| <b>N</b>      | 9. site of rRNA production in nucleus                                                                                                                      | I) Golgi body    |
| <b>C</b>      | 10. rod-like structures that package the DNA into neat, discrete units; play role in cell division                                                         | J) lysosomes     |
| <b>F</b>      | 11. used for movement, and to move material past cell. Beat back and forth like little oars                                                                | K) microfilament |
| <b>S</b>      | 12. site of lipid synthesis                                                                                                                                | L) microtubule   |
| <b>R</b>      | 13. appearance due to being peppered with ribosomes; this membranous network receives the just-synthesized protein and may modify it                       | M) mitochondria  |
| <b>O</b>      | 14. the "brain" of the cell                                                                                                                                | N) nucleolus     |
| <b>M</b>      | 15. this organelle has a double membrane and converts glucose and O <sub>2</sub> to produce energy in the form of ATP                                      | O) nucleus       |
| <b>B</b>      | 16. enclose plant cells. Strong cellulose fibers give rigidity                                                                                             | P) plastids      |
| <b>P</b>      | 17. small organelles in plants that contain pigments or store starch                                                                                       | Q) ribosome      |
| <b>U</b>      | 18. small membranous spheres that transport materials around cell, out of cell via exocytosis, and into cell via endocytosis                               | R) rough ER      |
| <b>Q</b>      | 19. made of rRNA and protein, these small, numerous organelles are the site of protein synthesis                                                           | S) smooth ER     |
| <b>Ignore</b> | 20. twin barrel like structures in animal cells that play a role in cell division; have 9 + 2 arrangement of microtubules                                  | T) vacuoles      |
| <b>H</b>      | 21. whip-like structures used for movement in unicellular organisms; have 9 + 2 arrangement of microtubules                                                | U) vesicle       |