Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_ Mods: \_\_\_\_

**MANDATORY HW “Take Home Quiz”: Cell Basics 15points**

**True/False:** *EXPLAIN* why each false statement is false in the space under the statement. Do not just correct the statement by writing that it is “not” what it states; provide a valid and complete explanation for why the statement is false. Include examples when you can

1. Prokaryotic cells lack a membrane
2. Plant cells are the only cells that have cell walls
3. Plants are prokaryotic and animals are eukaryotic
4. Only plant cells have a nucleus
5. All photosynthetic organisms have chloroplasts
6. Plasma (cell) membranes are permeable by everything
7. All DNA is housed in a cell’s nucleus
8. Matter “flows” and energy “cycles” through an ecosystem
9. Carbon dioxide is a waste product (unwanted, unneeded) by all organisms