

Name _____ Date _____ Period _____

2ND MARKING PERIOD LARGE SEMI-CUMULATIVE QUIZ STUDY GUIDE

Biology & Honors Biology
Mr. Zunick

CHOOSE ANY 10 OF THE FOLLOWING QUESTIONS:

1. Be familiar with at least four examples of a LOCK AND KEY FIT and/or STRUCTURE-FUNCTION RELATIONSHIP.
2. Compare and contrast the theories of Darwin and LaMarck.
3. Be familiar with the various natural selection stories we have studied. For example, know about the peppered moth, finches, rabbits and myxomatosis, giraffes, and drug-resistant bacteria.
4. Know how to draw each of these items: glucose, phospholipid bilayer, 4 levels of protein structure, ATP, ADP, water molecule with partial charges.
5. Know all the parts of the cell.
6. List the 13 levels of organization in order. Provide examples and definitions of each level.
7. Be familiar with at least four examples of SURFACE AREA.
8. Know the steps to photosynthesis and cellular respiration.
9. Know all of the properties of water. Also know all of the various biological chemicals (such as proteins, lipids, and carbohydrates) we have studied.
10. Know how enzymes work. Draw a diagram showing the enzyme, active site, substrate, and both types of inhibitors. Discuss the lock and key fit. Know how heat and pH can affect enzymes. Know what activation energy is and how it relates to enzymes.
11. Know how to draw orbital diagrams and connect them using ionic bonds and covalent bonds.



GOOD LUCK!!!

