

REVIEW SHEET – UNIT 1 EXAM – BIOLOGY

Test will be on _____

1. Know the difference between an observation and an inference.
2. Be able to perform metric conversions.
3. What are the 4 basic steps of the scientific method?
4. Define observation.
5. What is a hypothesis?
6. What is an independent variable?
7. What is a dependent variable?
8. What is a control group?
9. How do you test a hypothesis?
10. What is an example of experimental error?
11. What would be the very first thing you would do when solving a problem?
12. What makes a good observation?
13. Know the S.I. base units for length, volume, and mass.
14. What does S.I. stand for?
15. What is the starting point of all scientific research?
16. Define resolving power.
17. Know the properties of the T.E.M.
18. Know the properties of the compound light microscope.
19. Know some advantages of the S.I. system.
20. Be familiar with the different parts of the compound microscope and their functions.
21. How do you find total magnification on a compound microscope?
22. What is biology?
23. How do we use biological knowledge?
24. Define magnification.
25. What is an inference?
26. What is the proper way to clean a microscope lens?
27. Be able to construct a graph (what goes on the x-axis, y-axis)
28. What is an experiment?
29. Know general laboratory safety.

FORMAT:

1. Observation vs. inference section (10 points)
2. Metric Conversions (5 points)
3. Multiple Choice (36 points)
4. Short answer (8 points)
5. Graphing problem (17 points)
6. Matching (6 points)
7. Three BCR's (9 points)
8. One Essay (9 points)
9. Extra Credit question (10 points)