

Name: _____ Date: _____ Teacher: _____ Hour: _____

BIO A: Unit 1 RETAKE REVIEW – Intro to Biology A

1. List 4 safety procedures. Which is most important when touching bio-materials?
2. If you are unsure of what to do in the lab, what should you do?
3. Because you may come in contact with organisms you might not see, what safety procedure must be followed?
4. Why did we put our petri dishes into the incubator during the microorganism adventure?
5. What is a colony?
6. What was the purpose of the agar in the petri dishes in the microorganism adventure?
7. What was the purpose of streaking the 4th quadrant of the petri dish with sterile water in the microorganism adventure?
8. What two parts are viruses made of?
9. I am doing an experiment for which detergent is best for stains. I have 5 white shirts, made of 100% cotton, with ketchup stains. I washed them all on the hot cycle for 45 minutes the first 4 with different detergent and the last I wash on the same cycle with no detergent.
 - a. What is the independent variable in this experiment?
 - b. What is the dependent variable in this experiment?
 - c. What are 3 constants in this experiment?
 - d. What would the control be in this experiment?
10. In Redi's experiment, the jar covered with gauze, contained meat without maggots. What idea does this support? (Biogenesis or Spontaneous Generation?)
11. Identify the characteristic of life in each of the following examples.
 - a. A grasshopper eats grass and converts that to energy so he can grow.
 - b. Maintaining a constant blood pressure of 120 over 80.
 - c. A caterpillar becoming a butterfly
 - d. Needing new antibiotics
 - e. Keeping your body temperature at 98.6deg.
 - f. A tadpole becoming a frog.
12. What is sexual reproduction?
13. What is asexual reproduction?

14. What is spontaneous generation

15. What is biogenesis?

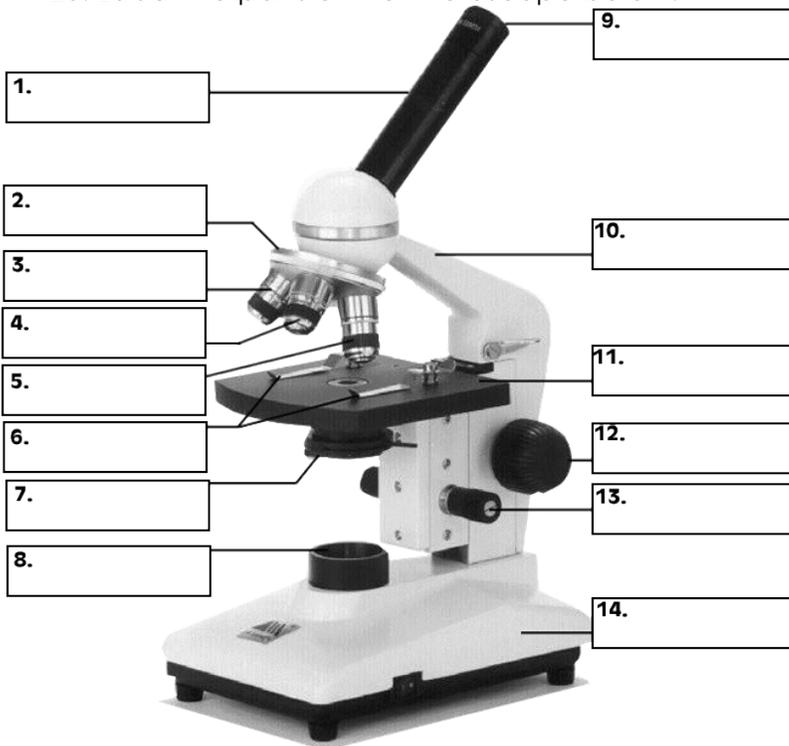
16. When using the high power objective lens, which part of the microscope should you never use?

17. Which objective lens should you always use first?

18. During an experiment measuring the height of a plant in centimeters would be **QUALITATIVE** or **QUANTITATIVE** data?

19. Describing the color of a plant would be **QUALITATIVE** or **QUANTITATIVE** data?

20. Label the parts of the microscope below.



21. What is the correct way to carry a microscope?

23. What is the nosepiece used for?

22. What are the course and fine adjustment knobs used for?

24. What are the stage clips used for?

25. What is the iris diaphragm used for?

26. Explain how to make a wet mount using a small piece of plant.

27. Is a virus a living thing? _____ Give 2 pieces of evidence to explain your answer.

