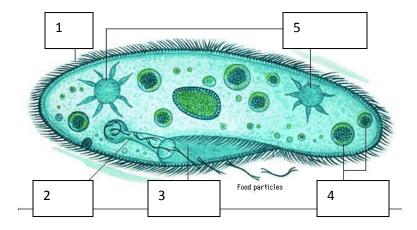
Final Exam Study Guide

1. What are five kingdoms of living things?

2.	What are the seven levels of taxonomy? List them in order from most inclusive to least inclusive			
3.	What are the six characteristic of living things?			
4.	How does an object maintain stable internal conditions?			
5.	Explain the difference between biotic/abiotic factors			
6.	Define the four critical chemicals.			
7.	List the four chemical activities of living things (Hint: DIRE)			
8.	Draw a plant cell and label it (on another paper)			
9.	Draw an animal cell and label it (on another paper)			
10. Describe how prokaryotic cells reproduce (what is the process called and how does it work)				
11. Describe how eukaryotic cells reproduce (what is the process called and how does it work)				
12. Write out the equation for photosynthesis.				
13. What is cellular respiration?				
14. What is the difference between cell respiration and fermentation?				
15. Explain how particles move in/out of a cell				
16. You want to test which paper towel is the most durable. Select three brands and write a hypothesis for your experiment.				
17. Fill in the data table below based on your tests for the above experiment (make up data) and then graph the				
Ι/.	data.	Paper Towel Brand	Pounds of pennies held when wet	e experiment (make up data) and then graph the

- 18. Label the parts of a microscope (and know what each part does!) (on another paper)
- 19. Explain why viruses are not living things
- 20. List the three groups of protists
- 21. Label the five parts of a paramecium.

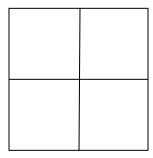


- 22. What is the role of fungi in the environment? (what do they eat?)
- 23. Label the parts of a perfect flower and their functions
- 24. Label the parts of an angiosperm and know what each part is for (what does the stem do? What are the flowers for? What do the roots do?)
- 25. What is the difference between invertebrates and vertebrates?
- 26. List the six types of invertebrates.
- 27. List the five types of vertebrates.
- 28. Describe the job of the internal structure of worms.
- 29. Explain the difference between an endotherm and an ectotherm
- 30. What is the difference between amphibians and reptiles
- 31. Explain how energy flows through a food web. What would happen if a new species was introduced?
- 32. Explain the difference between dominant and recessive genes.

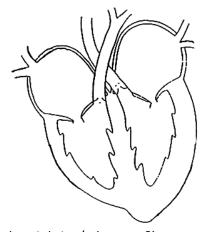
33. Use the following information in a Punnett Square:

A black male rabbit (heterozygous dominant) is crossed with a while female (homozygous recessive). What is

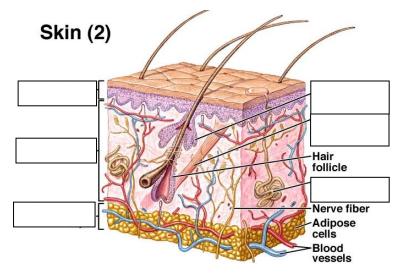
the genotype ratio?



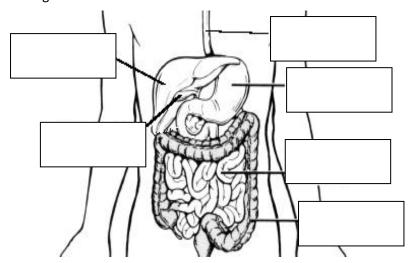
- 34. Describe how skeletal muscles move bones.
- 35. Draw the flow of blood through the heart. Use a solid arrow for oxygen-poor blood and a dashed arrow for oxygen rich blood.



- 36. Describe the job of blood (what does it bring/take away?)
- 37. Explain how breathing happens.
- 38. Discuss the relationship between the respiratory system and the circulatory system.
- 39. How does skin help maintain homeostasis?
- 40. Label the diagram of skin below:



- 41. What are the two parts of the nervous system?
- 42. Describe the parts and functions of the digestive system.
- 43. Label the diagram below.



44. Describe the parts and functions of the urinary system.