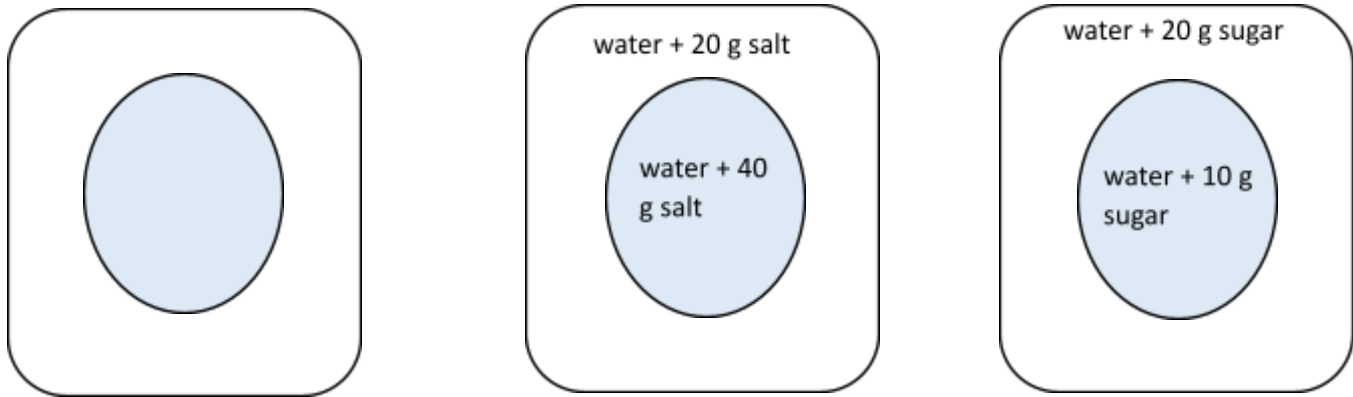


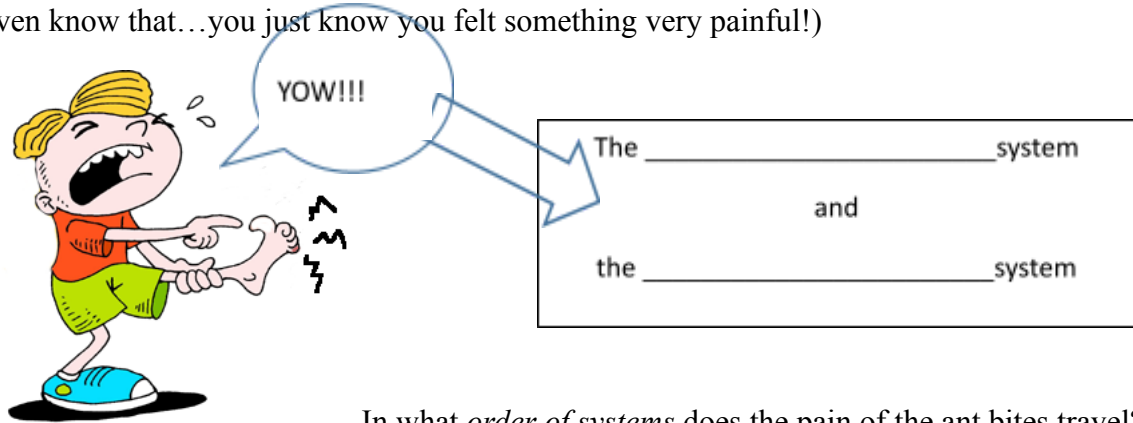
1. Which two organ systems prevent you from a serious burn if you touch a hot stove?
2. You set up an experiment with a beaker of water and a semi-permeable bag to represent osmosis in cells. What must the conditions be in order to observe osmosis into the bag?
3. Draw arrows to indicate which way the **water molecules** will move in each of the following situations:
What process does this model? _____ Draw your own model using the first diagram.



4. Which two systems rid the body of most of its waste?
5. Which two systems would remove extra liquid from the lungs?
6. You jab your finger with a pin. Put the systems in order for the body's response to pain: nervous, integumentary, and muscular.
7. Which systems work as part of the excretory system?
8. Which system is responsible for fear responses?
9. Which systems shut down during times of stress/fear?
10. Which three systems function to help the body move?
11. During a basketball game, Steve drinks three cups of water on the sidelines. By the end of the game, he has to run off the court to the bathroom. Which systems most likely make Steve have to "go"?

12. A student isolated a cheek cell and placed it in pure water. When she looked at it under a microscope the cell had burst. Which process caused the cell to burst? Explain.

13. What 2 body systems work together to make you snatch your foot up off the ground without even thinking about it right when you feel something biting you? (Later, you realize you stepped in a fire ant bed, but at first, you don't even know that...you just know you felt something very painful!)



The _____ system
and
the _____ system

In what *order of systems* does the pain of the ant bites travel?

From the _____ to the _____ to the _____

14. What 2 things come out of your lungs when you breathe out? _____ and _____. Your _____ system rids your body of waste.

15. Your body's "waste" is sweat, pee, and breathing out. (Not poop!) So, which 3 body systems work together to get rid of wastes from your body?

Sweat comes out through the _____ system and is the body's way of maintaining _____.

Urine is processed by the _____ system

You breathe out _____ and _____ using your _____ system



16. A tiger has escaped from the zoo and is chasing you!

Which body system reacts FIRST and QUICKLY to give you the fight or flight hormone? _____

Which body systems will you IMMEDIATELY need the most in order to survive, and why?

_____, _____, and _____

because _____

Which body systems will you definitely NOT immediately need to use at that particular moment?

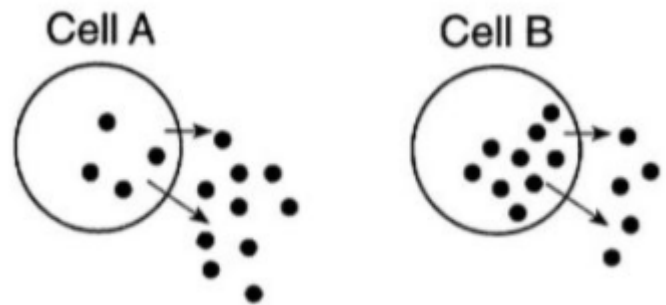
_____, _____, and _____

17. Pat your head and rub your belly for 5 seconds. Which 3 body systems did you just use in order to do that?

My _____ system, _____ system, and _____ system

18. Jenny is watching her dog as he eats his dog food. Choose three body systems and describe how they interact to change the dog food into a form that they body can use.

19. Identify and explain the processes pictured.



20. You are home sick with the flu. What is your body doing to help you get better?

21. How do the circulatory and respiratory system work with each other?

22. How do nutrients travel to the cells?

23. What cell processes involve the cell membrane?

24. What cell processes involve acquiring energy?

25. What is needed for cell respiration and what system would supply those ingredients?

26. How do the circulatory and immune systems work together?

27. Explain mitosis.

28. Where does digestion begin?

29. Identify the functions of each body system.

Circulatory -

Digestive -

Excretory -

Endocrine -

Immune -

Integumentary -

Lymphatic -

Muscular -

Nervous -

Respiratory -

Urinary -

Skeletal -

30. Explain the Cell Processes.

Passive Transport -

Diffusion -

Osmosis -

Active Transport -

Endocytosis -

Exocytosis -

Photosynthesis -

Cellular Respiration -

Mitosis -

Meiosis -