There are six important function to tissues and organs:

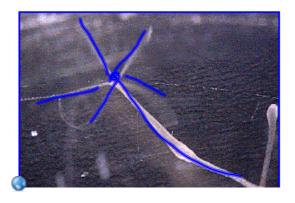
digestion
respiration
circulation
conduction of nerve impulses
support
excretion

### Digestion

Single cell organisms digest their food their cells.

Other animals use digestive enzymes of their cells.

Gastrovascular cavitya digestive cavity with \_\_\_\_\_ opening.



http://www.ucmp.berkeley.edu/cnidaria/hydrozoa.html

Other animals have a digestive tract with 2 openings (moth and anus)

This system allows for 1

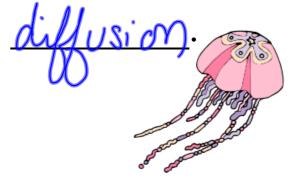


## Respiration

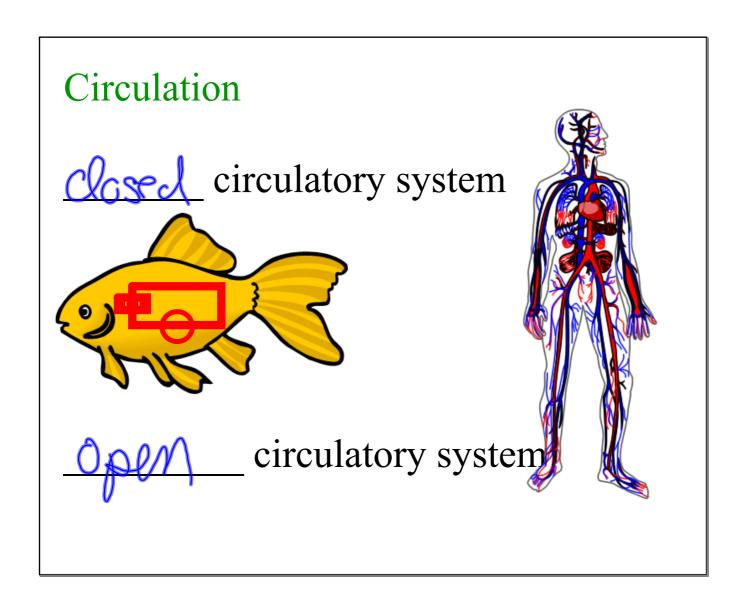
Respiration is the uptake of and the release of Carbon dioxide.

It can only take place across a MOIST surface.

Simple animals use diffusion



Complex animals have specific <u>"brealthum</u>" structures.



## Conduction of nerve impulses

Members of all the major animal phyla except <a href="Sponges">Sponges</a> have nerve cells.

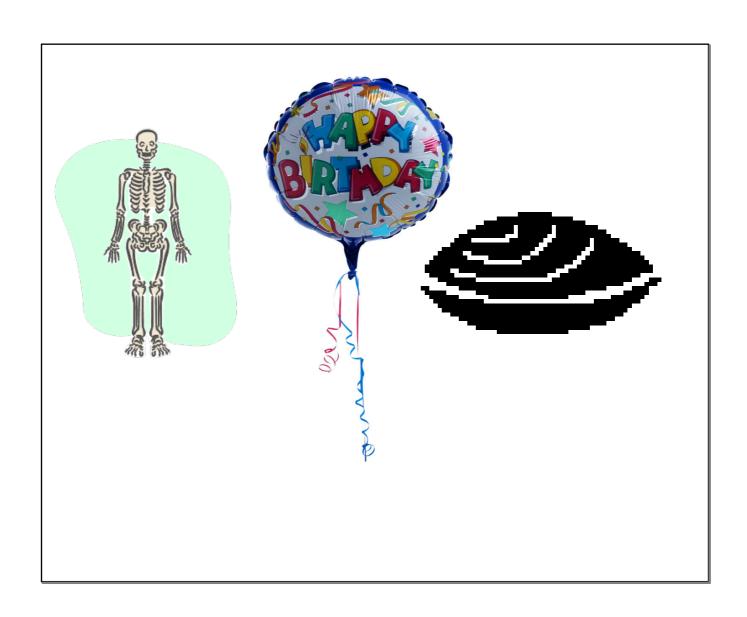
Nerve net- all cells are similar and linked together

# Support

Hydrostatic skeleton- water that is contained under pressure in a closed cavity.

Exoskeleton-a rigid external skeleton

Endoskelton- hard material within the animal \_\_\_\_\_\_\_



#### Excretion

Removal of wastes produced by cellular metabolism