

There are six important function to tissues and organs:

digestion

respiration

circulation

conduction of nerve impulses

support

excretion

Oct 12 - 11:11 AM

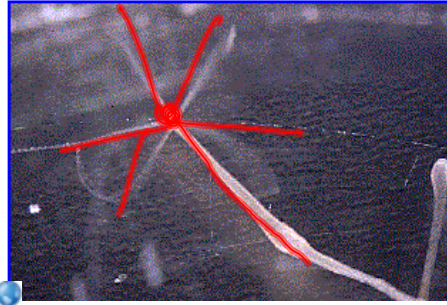
## Digestion

Single cell organisms digest their food inside their cells.

Other animals use digestive enzymes outside of their cells.

Oct 12 - 11:12 AM

Gastrovascular cavity-  
a digestive cavity with one opening.

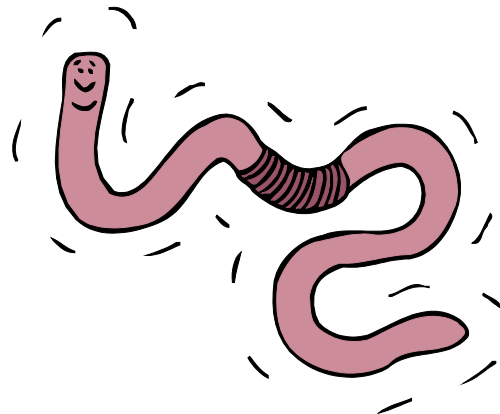


<http://www.ucmp.berkeley.edu/cnidaria/hydrozoa.html>

Oct 12 - 11:13 AM

Other animals have a digestive  
tract with two openings  
(mouth and anus)

This system allows for  
Specialization.



Oct 12 - 11:14 AM

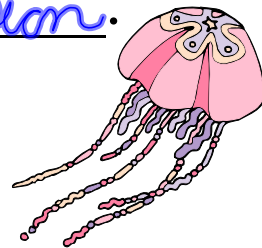
## Respiration

Respiration is the uptake of Oxygen and the release of carbon dioxide.

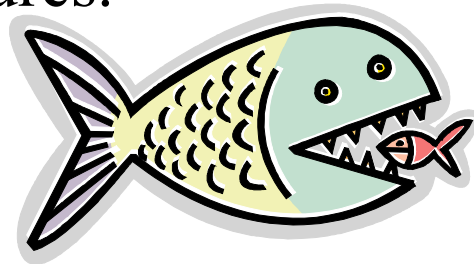
It can only take place across a moist surface.

Oct 12 - 11:16 AM

Simple animals use diffusion.



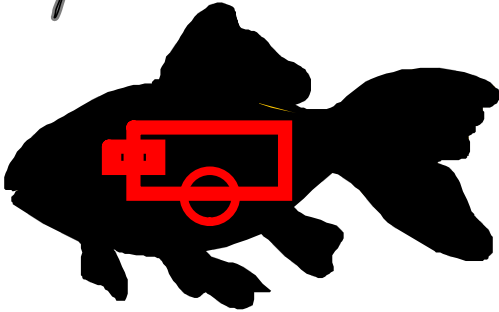
Complex animals have specific respiratory structures.



Oct 12 - 11:17 AM

## Circulation

Open circulatory system



closed circulatory system

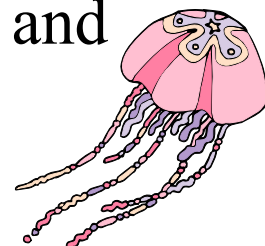
Oct 12 - 11:19 AM

## Conduction of nerve impulses

Members of all the major animal phyla except sponges have nerve cells.



Nerve net- all cells are similar and linked together



Oct 12 - 11:22 AM

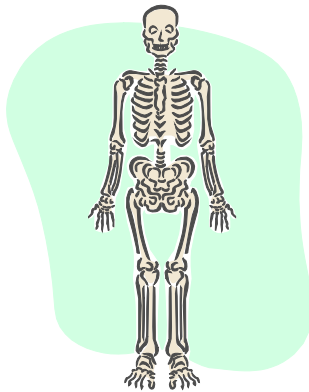
## Support

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

Exoskeleton-a rigid external skeleton  
clam, insects

Endoskeleton- hard material within the animal  
human, cat

Oct 12 - 11:24 AM



Oct 12 - 11:25 AM

Excretion  
Removal of  
wastes produced  
by cellular  
metabolism