

There are six important function to tissues and organs:

digestion

respiration

circulation

conduction of nerve impulses

support

excretion

Oct 12 - 11:11 AM

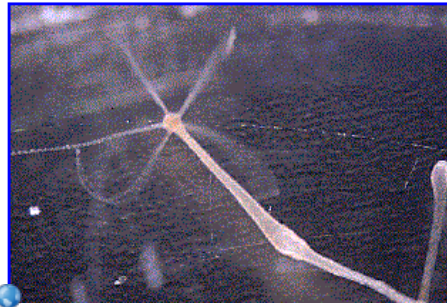
## Digestion

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>

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Other animals have a digestive  
tract with 2 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.

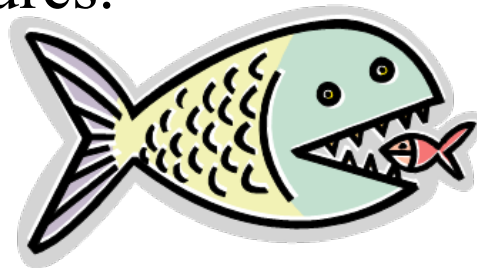
It can only take place across a moist surface.

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Simple animals use diffusion



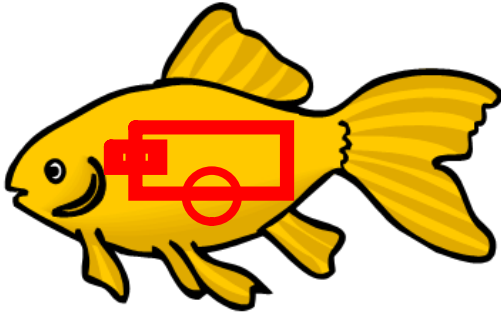
Complex animals have specific respiratory structures.



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## Circulation

open circulatory system

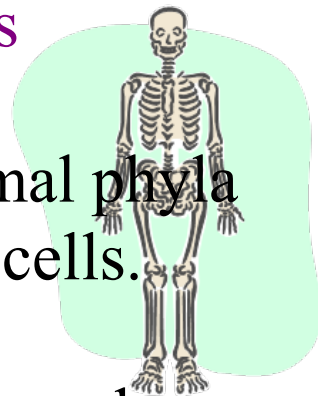


closed circulatory system

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## 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



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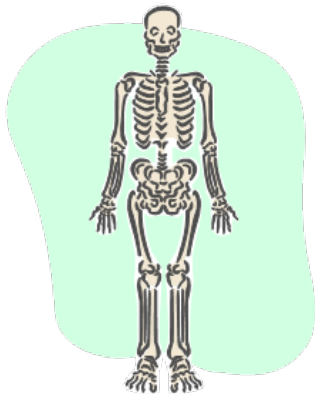
## Support

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

Exoskeleton-a rigid external skeleton  
crab, ant, grasshopper

Endoskeleton- hard material within the animal  
fish, turtle, hawk

Oct 12 - 11:24 AM



Oct 12 - 11:25 AM

Excretion  
Removal of  
wastes produced  
by cellular  
metabolism

Oct 12 - 11:26 AM

Aristotle

land - air - water

shrub - tree - flower

Sep 19-10:08 AM

Linnaeus

2-names  
Latin

Sep 19-10:10 AM

Homo sapien

1<sup>st</sup> word capital  
2<sup>nd</sup> word lowercase  
underline or italics

Sep 19-10:14 AM

Kingdom	Animal
Phylum	Chordata
Class	Mammal
Order	?
Family	Primate
Genus	Homo
Species	sapien

Sep 19-10:15 AM