

There are six important function to tissues and organs:

digestion

respiration

circulation

conduction of nerve impulses

support

excretion

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Digestion

Single cell organisms digest their food

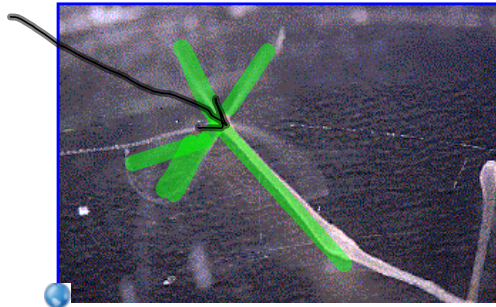
inside their cells.

Other animals use digestive enzymes

outside of their cells.

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Gastrovascular cavity-
a digestive cavity with one opening.

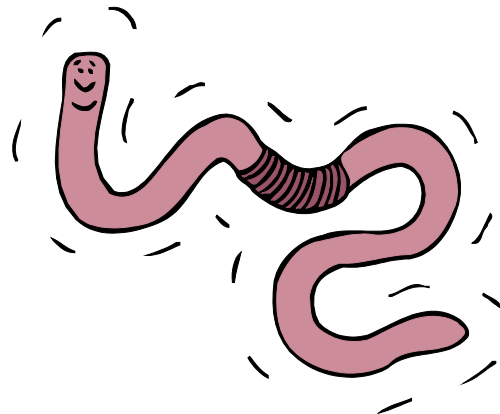


<http://www.ucmp.berkeley.edu/cnidaria/hydrozoa.html>

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

This system allows for
specialization.



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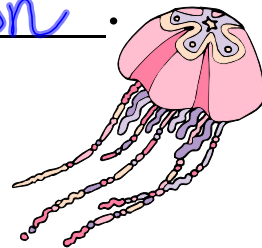
Respiration

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

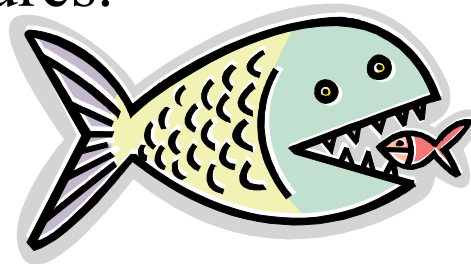
It can only take place across a moist surface.

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Simple animals use diffusion.



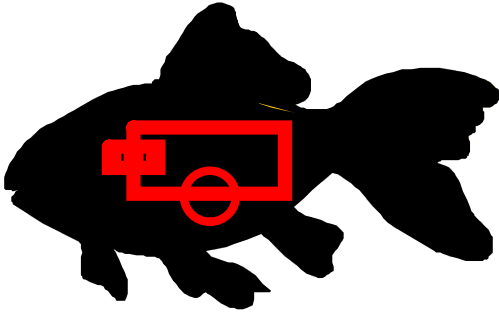
Complex animals have specific respiratory structures.



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Circulation

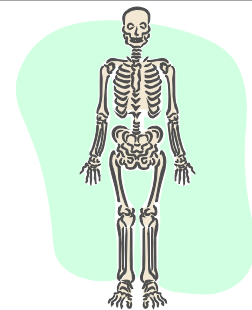
Open circulatory system



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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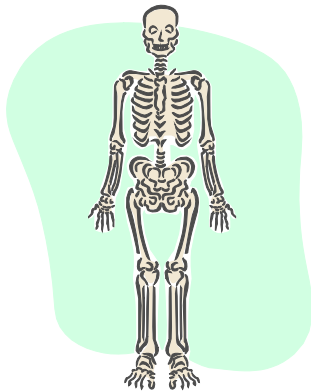
Support

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

Exoskeleton-a rigid external skeleton
ant, lobster, clam

Endoskeleton- hard material within the animal
human, dog, sea star

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Excretion
Removal of
wastes produced
by cellular
metabolism