A body plan in which the left and right sides are mirror images of each other	Plan in which body parts are arranged around a central axis as seen in jellyfish or starfish
Arrangement is which organisms have an irregularly shaped body without symmetry	the evolutionary history of a species or taxonomic group
The internal and external structure and form of an organism	Hollow ball of cells that forms when a zygote divides repeatedly by mitosis
Depression formed when cells of the blastula move inward to form the digestive system	Patten of embryonic development in which cells "twist as they divide and cells decide early what they will become
Classification SYSTEM that groups organisms based on their "shared derived characters"	Branch of biology that names and groups organisms according to their characteristics and phylogeny
System of naming organisms that uses a two part scientific name consisting of a genus name and a species identifier	Type of nitrogen waste made from ammonia by the liver and excreted by humans and other mammals
A specific layer of cells in an embryo from which certain organ systems develop	A layer of cells in the gastrula that gives rise to MUSCLE and to the interior body linings

The outer covering on an animal's body	The head end of an organism
The back end of an organism	The "tummy" side of an organism
The top surface or back of an organism	Maintaining the balance of water and ions in the body
An internal skeleton	Skeleton found on the outside of an animal's body
Joining of the sperm and egg outside of the female's body	Joining of the sperm and egg inside the female's body
Animals WITH a backbone; includes fish, amphibians, reptiles, birds, & mammals	Animals WITHOUT a backbone; includes sponges, jellyfish, mollusks, echinoderms, and arthropods
Body cavity or space around the internal organs which forms within the mesoderm of animals	Type of development in which organisms hatch or born with an appearance similar to that of an adult only smaller

A type of circulatory system in which the circulatory fluid (blood) is contained inside vessels

Concentration of nerve tissue and sensory organs at the anterior end of an organism

Any eukaryotic heterotrophic multicellular organism that can move and reproduce made of specialized cells which contain DNA

Type of development in which organisms hatch as an immature larva and must undergo metamorphosis to become an adult (Ex: Caterpillar to butterfly)

A type of circulatory system in which the circulatory fluid (blood) is NOT contained within blood vessels and flows around loose inside the body cavity and tissue spaces

Type of NITROGEN WASTE that is the most toxic and requires the most water to dilute which is excreted by animals that live in water

Type of NITROGEN WASTE that is the least toxic and requires the least amount of water to dilute which is excreted by birds, insects, and reptiles

Pattern of embryonic development in which cells stack up on top of each other as they divide and decide later on what they will become"

DIAGRAM used in CLADISTICS that shows evolutionary relationships between organisms based on "shared derived characters"

DIAGRAM used by the 6 Kingdom system that shows evolutionary relationships between organisms based on comparisons of morphology, fossils, embryology, DNA, etc.

Organism in which the blastopore develops into the mouth and whose embryos have determinate spiral cleavage; Includes all invertebrates except echinoderms

Organism in which the blastopore develops into the anus and whose embryos have indeterminate radial cleavage Includes all vertebrates & echinoderms

BILATERAL SYMMETRY	RADIAL SYMMETRY	ASYMMETRY
PHYLOGENY	MORPHOLOGY	TAXONOMY
OPEN CIRCULATION	CLOSED CIRCULATION	BLASTULA
BLASTOPORE	INDIRECT DEVELOPMENT	AMMONIA
OSMOREGULATION	DIRECT DEVELOPMENT	URIC ACID

CLADOGRAM PHYLOGENETIC TREE **PROTOSTOME** DEUTEROSTOME ANIMAL CLADISTICS **INDETERMINATE** DETERMINATE **EXTERNAL** RADIAL CLEAVAGE SPIRAL CLEAVAGE **FERTILIZATION** INTERNAL BINOMIAL **FERTILIZATION** NOMENCLATURE

MESODERM

INTEGUMENT

GERM LAYER

DORSAL	VENTRAL	ANTERIOR
POSTERIOR	ENDOSKELETON	EXOSKELETON
VERTEBRATES	INVERTEBRATES	COELOM
CEPHALIZATION	UREA	