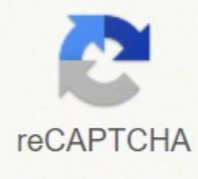




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Characteristics of chordates worksheet

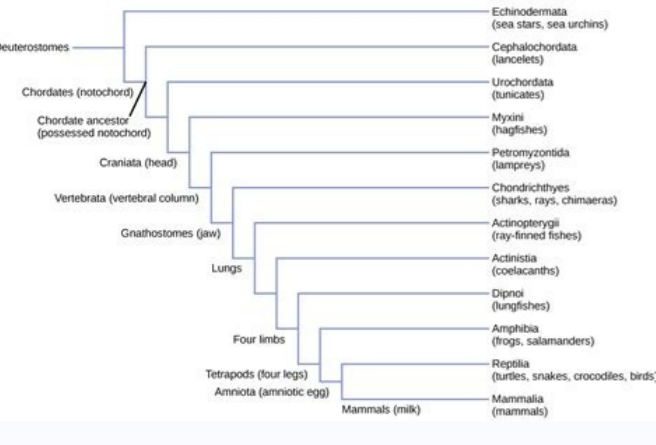
Vertebrate Characteristics

- What is the first characteristic that all vertebrates share?
 - A notochord is a flexible rod-shaped structure that functions as the primitive axial skeleton in the adult stage of vertebrates. It is a remnant of the embryonic tail and is located in the dorsal region of the body.
 - A dorsal fin is a fin on the back of a fish that helps it balance and stay upright in the water.
 - Pharyngeal slits are openings in the pharynx that allow water to pass through to the gills.
 - A notochord is a flexible rod-shaped structure that functions as the primitive axial skeleton in the adult stage of vertebrates.
- What is the second characteristic that all vertebrates share?
 - A dorsal fin is a fin on the back of a fish that helps it balance and stay upright in the water.
 - Pharyngeal slits are openings in the pharynx that allow water to pass through to the gills.
 - A notochord is a flexible rod-shaped structure that functions as the primitive axial skeleton in the adult stage of vertebrates.
 - A dorsal fin is a fin on the back of a fish that helps it balance and stay upright in the water.
- What is the third characteristic that all vertebrates share?
 - A dorsal fin is a fin on the back of a fish that helps it balance and stay upright in the water.
 - Pharyngeal slits are openings in the pharynx that allow water to pass through to the gills.
 - A notochord is a flexible rod-shaped structure that functions as the primitive axial skeleton in the adult stage of vertebrates.
 - A dorsal fin is a fin on the back of a fish that helps it balance and stay upright in the water.
- What is the fourth characteristic that all vertebrates share?
 - A dorsal fin is a fin on the back of a fish that helps it balance and stay upright in the water.
 - Pharyngeal slits are openings in the pharynx that allow water to pass through to the gills.
 - A notochord is a flexible rod-shaped structure that functions as the primitive axial skeleton in the adult stage of vertebrates.
 - A dorsal fin is a fin on the back of a fish that helps it balance and stay upright in the water.

Objectives

Students will...

- Identify major characteristics of chordates
- List the major characteristics of all vertebrates
- Explain the difference between ectotherms and endotherms
- Name the characteristics of the 3 classes of fish



Name _____ Date _____ Class _____

Key Concept Builder

Characteristics of Life

Key Concept: What characteristics of living things share?

Directions: Read the characteristics of living things chart. Write your answers in the spaces provided.

development	energy	growth	homeostasis
organization	reproduction	adaptation	metabolism

- Specialized structures in cells are an example of organization.
- When a plant's leaves and stems grow toward light, the plant is responding to an external stimulus.
- A paramecium regulates temperature by pumping water out of the cell.
- Multicellular organisms have a greater level of organization than unicellular organisms.
- Accounting for size in growth.
- Changing from one kind of cell to a specialized cell is differentiation.
- The process that allows new living things to reproduce.
- All animals start out by living through an embryo.
- Drinking water helps your body maintain homeostasis.

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Divided into Five classes.				
Asteroides	Opheuroidea	Echinoidea	Holothuroidea	Ctenophora
Body form - Rat & star like Arms - Five or multiple of five Sharply marked with the central disc Spines - Present Pedicellariae - Present Ambulacral groove - Present Madreporite - at Aboral surface Anus - At aboral end Viscera - Extend up to arms Respiration - Dermal branchiae or papillae Suckers - Present Larva - Bipinnularia or Brachiolaria e.g. Asterias - Starfish Penaeus - Sea penaeid	Body form - Flat & star like Arms - Five or multiple of five Sharply marked with the central disc Spines - Present Pedicellariae - Absent Ambulacral groove - Not visible Madreporite - Oral Anus - Absent Viscera - No Viscera into arms Respiration - Gential Suckers - Absent Larva - Cyphopleurite e.g. Ephyra - Brittle star Ephyra - Star Loricifer - Bladder star	Body form - 41) spherical Arms - Absent Spines - Present Pedicellariae - Present Ambulacral groove - absent Madreporite - Aboral Anus - Aboral Viscera - No Viscera into arms Respiration - Perivisceral gills Suckers - Present Larva - Pluteus Mouth - with biting & chewing tooth apparatus Anus - 1) lamina (Masticating apparatus with 3 teeth) e.g. Echinus - sea urchin Typhlops - sea urchin Echinocystites - sand dollar Echinocystites - heart urchin Salpax	Body form - Long & cylindrical Arms - Absent Spines - Absent Pedicellariae - Absent Ambulacral groove - Absent Madreporite - Internal Anus - Aboral Viscera - No Viscera into arms Respiration - Cloacal sac Suckers - Present Larva - Auricularia e.g. Cucumaria - Sea cucumber Holothuria - Synagoge	Body form - Plan like fixed with cilia Arms - Highly branched Spines - Absent Pedicellariae - Absent Ambulacral groove - Oral and ciliated Madreporite - Absent Anus - Oral Viscera - Extend up to arms Respiration - Tube feet Suckers - Absent Larva - Dolioletaria e.g. Aequorea - Sea lily most primitive - Holothuria Nemertea - Feather star
Star Fish	Brittle star	Sea Urchin	Sea Cucumber	Sea Lily

Chords of kehi mitho. Characteristics of vertebrates for class 4. Chords of hataridai basatidai.

Lancelets are only a few centimeters long and are usually found in the sand in the lower part of the temperate and tropical seas. Vertebrates are appointed for the spine, composed of vertebrae - a series of separate and irregularly shaped bones joined to form a spine (figure). Urocampport anatomy. Animals in the Chordata Phylum share five key traits that appear at some stage during their development: a notochord, a dorsal nerve cord, pharyngeal slits, a post-anal tail, and endostyle. Vertebrates do not have a notochord at any time in their development. Instead, they have a vertebral column. The pharyngeal slits are openings in the pharynx (the just back region to the mouth) that extend to the external environment. The most symmetrical animals bilaterally have a head. Of these, those who have a skull include the craniate / vertebrate clade, which includes MYXINI (HAGFISHES) primitively masacized (Hagfishes), Petromyzontida (lamprys) and all the bodies called Vertebrates (should notice that myxini has a skull but lacks a spine.) a Craniate skull. Endostyle. It produces substances similar to thyroid hormones and is homologous with the thyroid gland in vertebrates. The characteristics of the Chordata Phylum are a notochord, a dorsal nerve cord, pharyngeal slits, a post-anal tail, and endostyle. Cephalochordata are suspension feeders. The tunicates are found in deep ocean waters around the world. In the organisms that live in water environments, the pharyngeal slits allow the exit of the water that enters the mouth during feeding. The name of the tunicate derives from the carbohydrate material similar to cellulose, called tunic, which covers the outer body of the tunicates. Virtually all the modern ribists classify the birds within the Reptilia, which correctly reflect their evolutionary heritage. A vertebrate skeleton. The larval shape Tadpole, however, has all five facilities. (Credit: Oregon Department of Fish & Wildlife via Wikimedia Commons) A skull is a bony, cartilaginous or fibrous structure surrounding the brain, jaw and face bones (figure). In other vertebrates, pharyngeal arches, derivatives are

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