Animal Phylogeny - Chordates

Are bilaterians monophyletic?
- Yes. Monophyletic Group

Are pseudocoelomates monophyletic?
- No. Evolved seperately many times

Phylum Chordata
humans

All chordates have all of these character-istics

1. Dorsal Neural Tube
- spinal cord in humans. Main nervous tissue

2. Notochord
- may be replaced by vertebral column
- Cartalage that provides support and becomes spinal column in humans from posterior to anterior

3. Pharyngeal Slits (become gills in fish)
- pharyngeal pouches present in all vertebrate embryos

4. Post-anal tail
- humans have this during embryo

Gator

What makes a gator a vertebrate?

Head
- Distinct and well-differentiated possessing sensory organs.
- The brain is enclosed in a protective box

Vertebral Column
- Enclosed and protects the dorsal nerve cord

Vertebrates also have
- Internal Organs: liver, kidneys, endocrine glands, heart and closed circulatory system
- Endoskeleton: made of cartilage or bone

Makes possible great size and extrao-rdinary movement

How is a gator a chordate?

- Dorsal Neural Tube
- Notochord
- Pharyngeal Slits (during development)
- Post-anal tails

By **Morghay123**

cheatography.com/morghay123/

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