Class Chondrichthyes

"Cartilage Fish"

Class _____

- _____ sub-classes

  - _____

    - Sharks

    - Rays

    - Skates

  - _____

    - _____ fish

    - _____ fish

    - _____ fish

- Most are _____

- Most are _____

  - Few plankton eaters (_____ & _____ sharks)

Relationship to _____

- Used for food

- Liver oil

- Clothing

- Jewelry

- Competition fishing

Characteristics

- _____

- Tough _____ scales: "_____"

  - Provide _____

  - Aid in _____

  - Some _____ secrete _____

- Powerful _____, multiple _____ of replaceable _____

  - _____ bites with _____ greater than a shot from 30-06 rifle

- _____ is _____

- _____ tail – _____ divided

- Skeleton – _____, with _____ true _____
  - _____ present in _____
  - _____ – larger species die when taken from water due to _____ on organs
- _____ chambered heart (_____ & _____)
  - _____ circulatory
  - _____ is _____, in head region
  - Blood pumped through _____ to _____, then to body tissues, back to heart through veins
- _____ blooded – "_____" – internal body temp. can have wide range
  - _____ matches the _____
- Reproduction
  - _____, with _____ fertilization
  - Dogfish & rays are _____
  - Most species are _____
- Wide range of sizes
  - Dogfish= _____
  - Great white= _____
  - Basking shark= _____
  - Whale shark= _____ (largest fish)
- Nervous system: well developed _____
  - _____ – 2 nostrils for _____
  - _____ – well developed _____
  - _____ – Ears _____ body, well developed; works with…
  - _____ – sensory openings along length of body, pick up _____ frequency vibrations
- Nervous system cont…
  - _____ = "ampullae of lorenzini"
    - Detects _____ given off by any _____
    - May help orient animal to _____
- Respiration
  - _____ gill pairs
  - Most species have _____ just behind _____
    - Provide direct _____ supply to _____