



S.E.A. AQUARIUM EDUCATOR RESOURCES

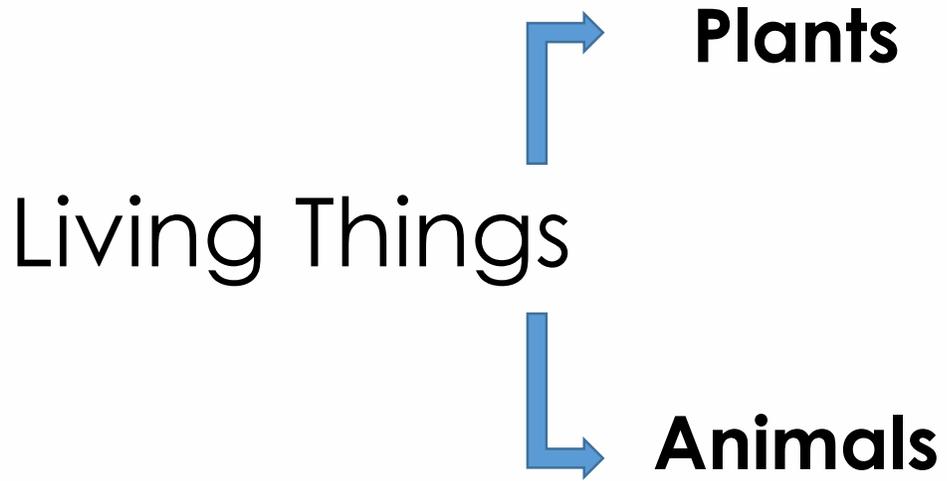
PRIMARY SCHOOL
Major Groups of Vertebrates

Importance of Classification

- Makes life easier
- Allows us to better understand the relationship among things
- Allows us to study and share more information about living things



Classification of Living Things



Classification of Animals

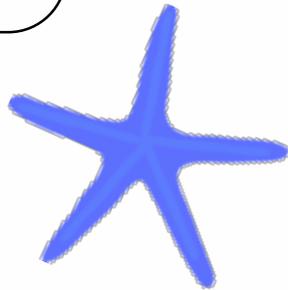
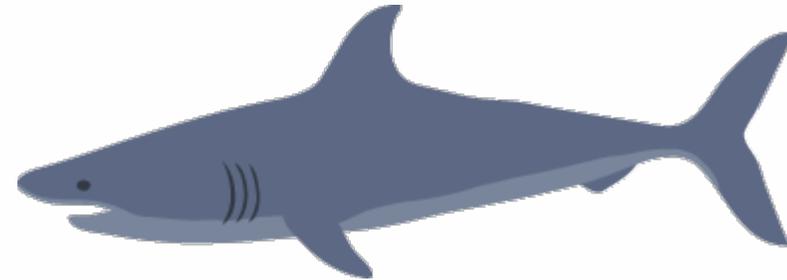
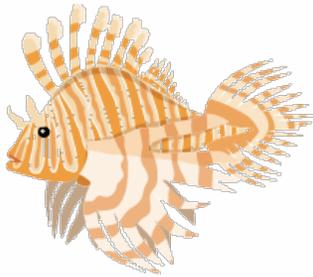
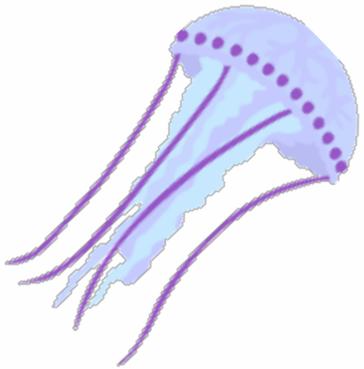


Invertebrates

- Do not have a backbone
- Do not have a spinal cord

Vertebrates

- Have a backbone
- Have a spinal cord



Groups of Vertebrates

Mammals



Reptiles



Fish



Amphibians

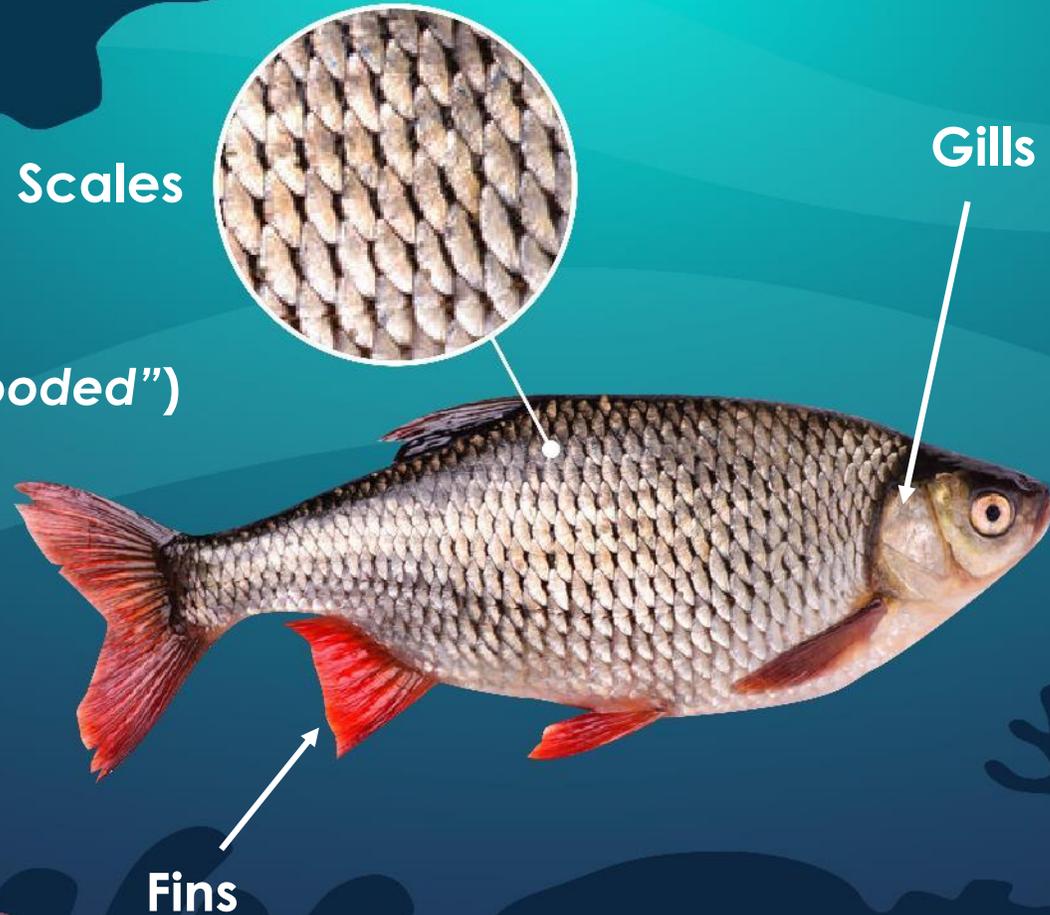


Birds



Characteristics of a Fish

- ❖ Lays eggs
- ❖ Has scales
- ❖ Uses fins to swim
- ❖ Uses gills to breathe
- ❖ Ectothermic (“cold-blooded”)
- ❖ Lives in water



Cold-Blooded

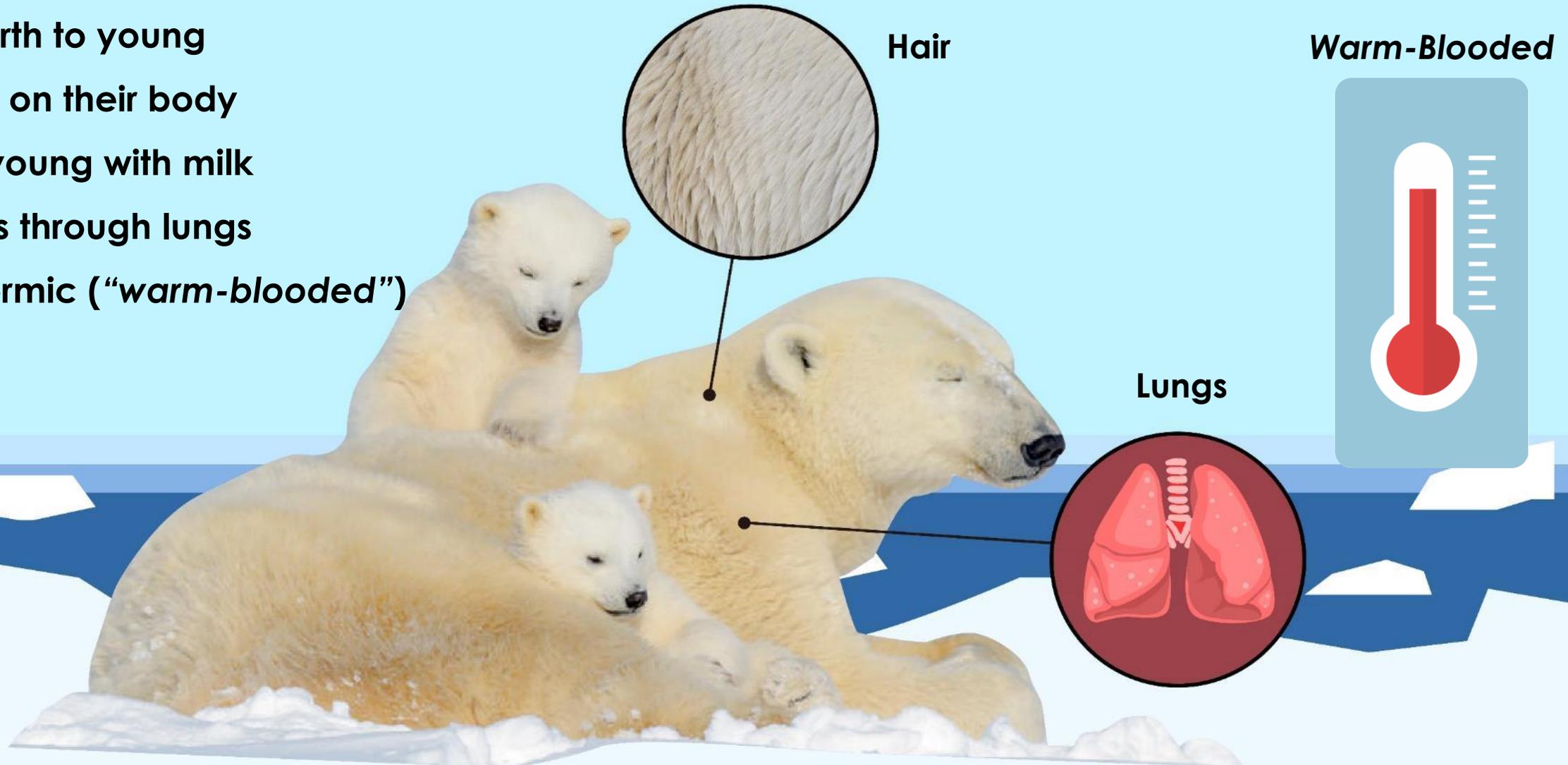


Eggs



Characteristics of a Mammal

- ❖ Gives birth to young
- ❖ Has hair on their body
- ❖ Nurses young with milk
- ❖ Breathes through lungs
- ❖ Endothermic (“warm-blooded”)



Characteristics of a Reptile

- ❖ Lays eggs
- ❖ Has scales or hard outer covering
- ❖ Uses lungs to breathe
- ❖ Ectothermic

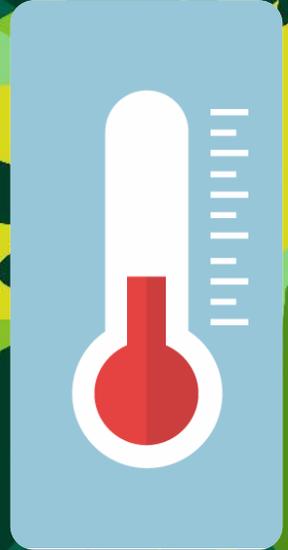
Lungs



Scales /Hard outer covering



Cold-Blooded



Characteristics of a Bird

- ❖ Lays eggs
- ❖ Has feathers and wings
- ❖ Has a pair of legs
- ❖ Endothermic



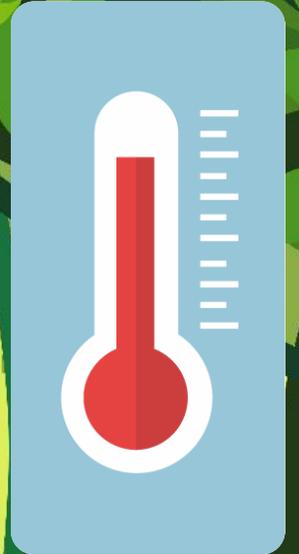
Feathers and wings



Eggs

Pair of legs

Warm-Blooded



Characteristics of a Amphibian

- ❖ Lays eggs
- ❖ Webbed feet
- ❖ Has moist skin
- ❖ Able to live on land and water
- ❖ Ectothermic

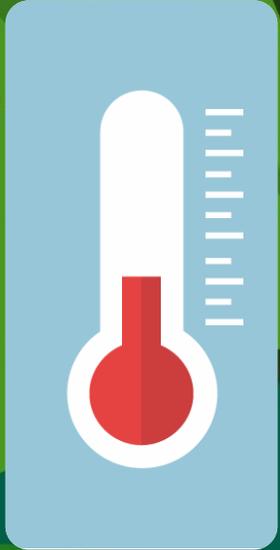


Eggs

Webbed feet

Moist skin

Cold-Blooded



Activity: *What am I?*

- Form 5 groups. Each group will represent 1 of the vertebrate groups
- Each group will receive a set of clue slips. Use them to identify your animal group!
- A total of 20 animals will be shown on the subsequent slides
- With the clues in hand, observe and identify all the animals that belong to your group
- Record the names of the animals that belong to your group on the flipchart paper



Hammerhead
Shark



Seagull



Tadpole



Dolphin



Crane



Crocodile



Sperm Whale



Penguin



Manta Ray



Chameleon



Newt



Sea Lion



Poison Arrow
Frog



Salamander



Sea Turtle



Blue Tang



Alligator Gar



Snake



Pelican



Orca



Answers

Mammals	Reptiles	Fish	Amphibians	Birds
Dolphin	Crocodile	Manta Ray	Tadpole	Seagull
Sperm Whale	Snake	Alligator Gar	Newt	Penguin
Orca	Sea Turtle	Blue Tang	Poison Arrow Frog	Pelican
Sea Lion	Chameleon	Hammerhead Shark	Salamander	Crane

