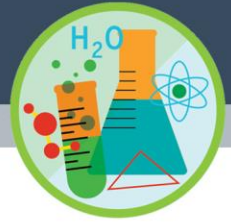




# Grade 8



# SCIENCE



### Animal Classification

#### Activity 1

Tashila went on a trip to Hikkaduwa and Kanneliya areas on last few days. He made a list of animals that he saw during those days.

Jelly Fish, Seagull, Dolphin, Sea Anemone, Snail, Parrot, Tarantula, Python, Monkey, Centipede, Loris, Thilapia, Owl, Crow, Dog, Clam, Caterpillar

1. With the knowledge you gained in grade 7, categorize the above animals based on presence of vertebral column and absence of vertebral column.
2. Write another term to define the animals without a vertebral column.
3. write a term to define the animals with a vertebral column.

#### Activity 2

Following are some of the photographs taken by Tashila during his trip to watch coral reefs at Hikkaduwa.

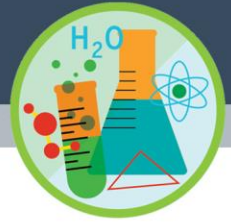


1. All of the above animals are invertebrates. Categorize them into four groups based on the external features of the animals for the convenience of studying.

<b>Group</b>				
<b>Example</b>				

2. Write three features of each group separately.
3. Define the term “soft bodied animals” and write two examples.
4. Define the term “segmented worms” and write two examples.
5. Divide the following animals into four groups.

Snail, Hydra, Earthworm, Nereis, Spider, moth



### Activity 3

Below are some of the photographs taken by Tashila during his visit to the Kanneliya forest reserve.



1. All of these animals are vertebrates. For the convenient of studying, categorize them into five groups based on their external features.

<b>Group</b>					
<b>Example</b>					

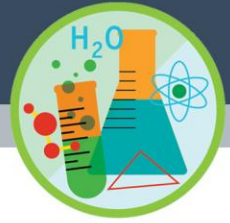
2. Write three special features for each group.

3. What is the reason for categorizing “frog” under the amphibian group?

4. What is the reason for categorizing “monkey” under the Mammalia group?

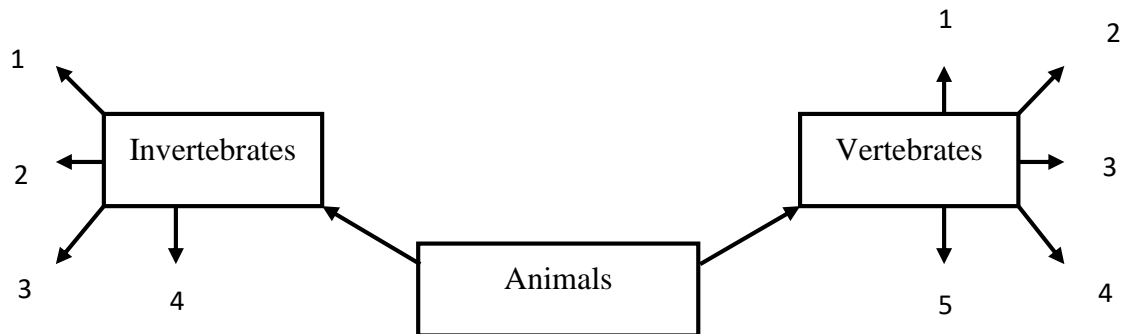
5. Categorize the following animals under the groups mentioned above.

Dolphin, Human, Tuna, Shark, Crocodile, Crow, Tortoise, Whale, Ostrich



### Summary

Complete the following concept map.



### Exercises

Underline the most accurate answer.

1. An animal without a vertebral column,

- i. Tortoise            ii. Lizard            iii. Prawn            iv. Snake

2. A vertebrate,

- i. Prawn            ii. Sea anemone            iii. Dragonfly            iv. Lizard

3. The invertebrate group that shows radial body symmetry,

- i. Cnidaria            ii. Annelida            iii. Mollusca            iv. Arthropoda

4. An animal that does not belong to the Mollusca group,

- i. Octopus            ii. Millipede            iii. Cuttlefish            iv. Clams

5. The invertebrate group with highest number of animals in the world,

- i. Arthropoda            ii. Mollusca            iii. Annelida            iv. Cnidaria

6. Pair of animals with a streamlined body,

- i. Thilapia, Cobra            ii. Swan, Tortoise            iii. Shark, Parrot            iv. Crocodile, Monkey

7. An animal that do respiration through moist skin,

- i. Frog            ii. Tortoise            iii. Crocodile            iv. Cobra

8. This animal feed its' little ones with milk,

- i. Duck            ii. Scorpion            iii. Python            iv. Chimpanzee

9. An animal who shows metamorphosis,

- i. Lizard            ii. Frog            iii. Skate            iv. Seer fish

10. The group of animals that do not respire through lungs,

- i. Mammalia            ii. Reptilia            iii. Aves            iv. Pisces