

Student learning outcome (SLO):

Classification of living organisms	Structure of a dicot and a
and its importance.	monocot plant
Difference vertebrates and	Classification of vertebrates into
invertebrates	five groups
Classification of invertebrates into	Effect of human activities on
five groups	biodiversity
Measures for conservation of endangered species	

Overview:

The main purpose of this lesson is to understand the classification and its importance to study different organisms.

Introduction:

Video can be shown to explain classification of living things.





Material:

The teacher will bring a chart showing different groups of living organisms.

Keywords:

Vertebrates, invertebrates, angiosperms, gymnosperms monocots, dicots, conservation.

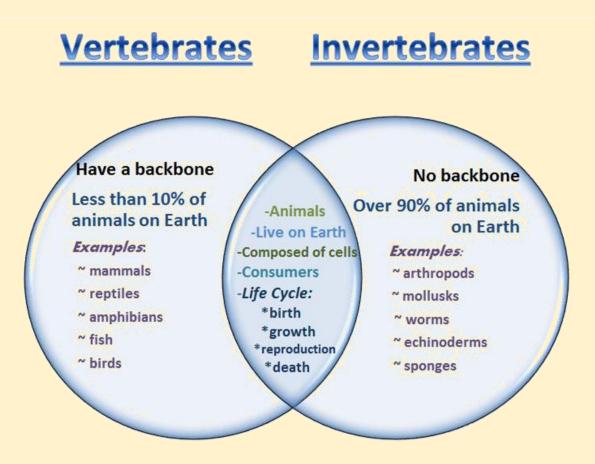
Activities:

- Explain students why classification is important. When organisms are classified, they are simply put into a group with other organisms "on the basis of similarities".
- 2. Make a display of the "**five groups of organisms**" with examples and the key characteristics of each group.



- Work in groups of two. Collect pictures of animals of each class of "vertebrates and invertebrates" with their characteristics. Prepare a report and present it in front of your class.
- 4. Bring seeds, leaves or flowers of different plants in the class. Ask the students to observe and categorize them either they are "**monocots or dicots**".
- Working in group ask the students to "observe two different ecosystems".
 Describe differences between them and identify which one is more diverse.
 Also discuss the consequences if certain species were to be removed.
- 6. Organize "plant a tree" campaign in your school.
- 7. Venn Diagram:

Venn diagrams are a great way to help students visualize the connections between two things, in this case, vertebrates and invertebrates. To make this graphic organizer, just draw two overlapping circles on a sheet of paper. Make sure to make the circles large enough to have room to write.





Essential questions:

Before starting the lesson, ask some questions to explore the background knowledge of students:

- 1. What are living things?
- 2. Do vertebrates have a backbone?
- 3. What is the difference between monocots and dicots?
- 4. What is biodiversity?
- 5. Compare endangered and extinct species.
- 6. Ask students to make a flowchart showing different organisms.