

Delhi Public School Ghaziabad
Class XI
Biology
Lesson plan based on DOL
Chapter 2 – Biological Classification

Unit	Diversity of living organisms (Chapter 2: Biological Classification)
Class Transaction	Total: 03 periods
Pre-requisite for the course	This lesson requires: • Basic knowledge of prokaryotes and eukaryotes • Basic principles of classification
Assessment of qualifying knowledge	Written test Lab activity Online quiz
Objective	• To provide students with knowledge of five kingdom classification; salient features and classification of Monera, Protista and Fungi into major groups: Lichens, Viruses and Viroids. • To make students able to research on common examples of organisms belonging to Monera, Protista and Fungi. • To make students able to make distinction in different groups of living organisms.
Learning Outcomes	<u>KNOWLEDGE-</u> <i>Students will know and understand</i> <i>Five kingdom classification; Salient features and classification of Monera, Protista and Fungi into major groups: Lichens, Viruses and Viroids</i> <u>SKILLS-</u> <i>Students would be able to</i> Understand and differentiate between Monera and Protista, viruses and viroids. Classify Fungi into major groups
Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)	Transaction would proceed in the following manner- <i>Brain Storming-</i>The class would start with a discussion on what the students have already learnt in the previous classes and hence what is it that they would learn now. They would also be told the significance of the topic that they would be studying. Communication and brainstorming: Students develop effective communication skills and learn to put across their views. <i>Introduction of the topic-</i> ppt and Digital Content would be shared <i>Guided practice followed by Independent Practice-</i> NCERT questions to be discussed in the classroom. Techniques to be used: Student - teacher interaction, collaborative learning, independent research, differentiated teaching, peer learning Competencies: collaborative learning, critical thinking and problem solving, character building, communication, citizenship
Resources	NCERT text book, Reference Book, CBSE Exemplar, DPSG Spiral
Self Study, Home	Independent Practice: Students would do the given questions in their spirals.

Work, Assignments	It is also advised that the students come to the class with proper background knowledge of the topic under discussion. They can refer to the resources stated above.
Assessments	UNIT TESTS, HALF YEARLY EXAMINATION, ANNUAL EXAMINATION
Addressing Classroom Diversity	Due to various social backgrounds and multiple intelligences, the classroom might be a diverse arena. The following techniques can be used for various groups: <i>For high scoring students:</i> Encouragement for referring other resources <i>For low scoring students:</i> Peer education Provide grade-up classes <i>For differently abled students:</i> Call parents at regular intervals Provide PCC classes Encourage and motivate them at every level.
Marks	Weightage of unit – 7 marks

Day 1:

- Students will be shown a ppt and will be made aware of different types of bacteria on the basis of shape and mode of nutrition.
- Students will be told about the different classes of Protista.
- Students will be told about the different classification methods.

Guided practice: DOL 1

- Students will be made to observe different types of bacteria under microscope.
- Students will be asked to write differences between Protista and Monera.

Summarize and check for understanding: DOL 2

- Oral questioning based on the day's teaching
- Discussion on the topic in groups – Importance of Monera in daily life.

Communication and brainstorming: Students develop effective communication skills and learn to put across their views.

Collaboration, Character and citizenship: Group discussion helps to develop interpersonal skills, respecting and valuing views of others

Independent practice: DOL 3

- Students will be asked to revise the work done in class.
- Students will be asked to research on various diseases caused by Protista and Monera.

Day 2:

- Students will be shown a ppt and will be made aware of important features of Kingdom Fungi.
- Students will be told about the Economic importance of kingdom Fungi.
- Students will be made aware of all different classes of kingdom Fungi.

Guided practice: DOL 1
a. Students will be made to recall important features of kingdom Fungi.
b. Students will be asked to make a diagram to show sexual cycle of fungi.
c. Students will be asked to list all the characteristic features of all the classes of Fungi.
Summarize and check for understanding: DOL 2
a. Oral questioning based on the day's teaching
b. Discussion on the topic in groups – Economic importance of kingdom Fungi.
Communication and brainstorming: Students develop effective communication skills and learn to put across their views.
Character and citizenship: Group discussion helps to develop interpersonal skills, respecting and valuing views of others
Independent practice: DOL 3
a. Students will be asked to revise the work done in class.
b. Students will be asked to describe types of sexual and asexual spores in kingdom Fungi.
c. Students will be asked to describe sexual cycle of kingdom Fungi.

Day 3:
a. Students will be shown a ppt and will be made aware of lichens and association of algae and fungi in lichens.
b. Students will be told about various viruses and diseases caused by viruses.
c. Students will be made aware of differences between viruses and viroids.
Guided practice: DOL 1
a. Students will be made to list at least 5 viruses and diseases caused by them.
b. Students will be asked to write differences between viruses and viroids.
c. Students will be asked to explain important features of viruses.
Summarize and check for understanding: DOL 2
a. Oral questioning based on the day's teaching
b. Discussion on the topic in groups – Diseases caused by viruses.
Communication and brainstorming: Students develop effective communication skills and learn to put across their views.
Collaboration, Character and citizenship: Group discussion helps to develop interpersonal skills, respecting and valuing views of others
Critical thinking and problem solving: Helps students to think critically and solve the given problem
Independent practice: DOL 3
a. Students will be asked to revise the work done in class.
b. Students will be asked to explain structure of viruses.
c. Students will be asked to draw a diagram to show structure of TMV and bacteriophages.

Closure of the lesson
Summarizing the lesson by mind mapping
Giving them revision worksheets