

Delhi Public School Ghaziabad
Class XII
Biology
Lesson plan based on DOL
Chapter 8 – Human Health and Disease

Unit	Biology in Human Welfare (Ch. – Human health and disease
Class Transaction	Total: 03 periods
Pre-requisite for the course	This lesson requires: • Basic knowledge of common diseases in humans. • Basic knowledge of immunity, AIDS, cancer, drug and alcohol abuse
Assessment of qualifying knowledge	• Written test • Lab activity • Online quiz
Objective	• To provide students with knowledge of the common diseases in humans, immunity, AIDS, cancer, drug and alcohol abuse
Learning Outcomes	<u>KNOWLEDGE</u>- <i>Students will know and understand</i> Common diseases in human beings, causative agent, symptoms, <u>SKILLS</u>- <i>Students would be able to</i> Understand mechanism of control of communicable diseases Understand causes of drug and alcohol abuse in adolescents Competencies developed in students: collaborative learning, critical thinking and problem solving, character building, communication, citizenship
Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)	Transaction would proceed in the following manner- Brain Storming-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. Introduction of the topic- ppt and Digital Content would be shared Guided practice followed by Independent Practice- NCERT questions to be discussed in the classroom. Techniques to be used: Student - teacher interaction, collaborative learning, independent research, differentiated teaching, peer learning
Resources	NCERT text book, Reference Book, CBSE Exemplar, DPSG Spiral www.learncbse.in/cbse-notes/ https://mycbseguide.com www.examfear.com
Self Study, Home Work, Assignments	Independent Practice: Students would do the given questions in their spirals. 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 , MID TERM EXAMINATION, HALF YEARLY EXAMINATION, ANNUAL BOARD 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 whole unit is 14 marks and is provided by CBSE.

Day 1:
Students will be shown a ppt and will be made aware of the pathogens, parasites causing human diseases like malaria, filariasis, ascariasis, typhoid, pneumonia, common cold, ring worm, amoebiasis.
Students will be told about the preventive measures of the diseases.
Students will be told about the mode of transmission of the diseases.
Guided practice: DOL 1
Students will be made to list pathogens, parasites causing human diseases like malaria, filariasis, ascariasis, typhoid, pneumonia, common cold, ring worm, amoebiasis.
Students will be made to discuss and describe how control of vectors is essential for prevention of spread of diseases.
Critical thinking, collaboration, communication and problem solving: Helps students to think critically and solve the given problem
Summarize and check for understanding: DOL2
Oral questioning based on the day's teaching.
Independent practice: DOL 3
Students will be asked to revise the work done in class.

Day 2:
Students will be shown a ppt and will be made aware of the basic concepts of immunology.
Students will be told about the vaccines.
Students will be made aware of immune response.
Guided practice: DOL 1
Students will be made to recall primary and secondary lymphoid organs.
Students will be asked to describe difference between primary and secondary immune response.
Students will be asked to make a list in groups to show all barriers of innate immunity.
Students will be asked to differentiate between active and passive immunity.
Collaboration and communication: Students learn to work in collaboration to achieve a common goal. They learn to manage time and divide and delegate work and responsibilities.
Summarize and check for understanding: DOL 2
a. Oral questioning based on the day's teaching

b. Discussion on the topic in groups – memory developed due to active immune response.
Communication, collaboration and brainstorming: Students develop effective communication skills and learn to put across their views
Independent practice: DOL 3
a. Students will be asked to revise the work done in class.
b. Students will be asked to describe passive immunization in case of tetanus and rabies.

Day 3:
a. Students will be shown a ppt and will be made aware of cancer and mode of treatment.
b. Students will be told about HIV and AIDS.
c. Students will be made aware of adolescence, alcohol and drug abuse.
Guided practice:
a. Students will be made to differentiate between normal and cancer cells.
b. Students will be asked to list all the methods for the treatment of cancer.
c. Students will be asked to discuss in groups causes of alcohol and drug abuse in adolescents.
Communication, character and citizenship: Group discussion helps to develop interpersonal skills, respecting and valuing views of others
Summarize and check for understanding:
a. Oral questioning based on the day's teaching
d. Discussion on the topic in groups – higher risk of alcohol and drug abuse in adolescents.
Communication, collaboration and brainstorming: Students develop effective communication skills and learn to put across their views.
Independent practice:
a. Students will be asked to revise the work done in class.
b. Students will be asked to draw life cycle of HIV.

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