

DELHI PUBLIC SCHOOL GHAZIABAD
CLASS – XII
LESSON PLAN based on DOL
CHAPTER – 3, Human Reproduction

Unit	Reproduction (Chapter 3: Human reproduction)
Class Transaction	Total: 5 periods
Pre-requisite for the course	This lesson requires 1. Basic knowledge of reproductive events in human beings. 2. Knowledge of events of sexual reproduction. 3. Knowledge of embryonic development
Assessment of qualifying knowledge	1. Written test 2. Lab activity 3. Oral questioning
Objective	Students would be able to understand structure and function of male and female reproductive system, gametogenesis, menstrual cycle, fertilization and implantation, pregnancy and embryonic development, parturition and lactation
Learning Outcomes	<u>KNOWLEDGE</u>- <i>Students will know and understand</i> 1. Male and female reproductive system 2. Gametogenesis 3. Menstrual cycle 4. Fertilization and implantation 5. Pregnancy and embryonic development 6. Parturition and lactation. <u>SKILLS</u>- <i>Students would be able to</i> 1. Draw a labeled diagram of male reproductive system 2. Understand mechanism of gametogenesis. 7. Understand mechanism of pregnancy and embryonic development Competencies: 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- <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 collaboration) <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: Quiz, MCQ, Peer Assessment, Case Studies, Lab Activities, Any Other
Resources	NCERT text book, Reference Book, CBSE Exemplar, DPSG Spiral Weblinks: 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, HALF YEARLY EXAMINATION, ANNUAL BOARD EXAMINATION, INTERNAL ASSESSMENT - Practical – 30 marks
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> • High order thinking questions to be done • Encouragement for referring other resources <i>For low scoring students:</i> • Spiral questions • Peer education • PCC classes <i>For differently abled students:</i> • Call parents at regular intervals • Provide grade-up classes • Encourage and motivate them at every level.
Marks	Weightage of unit – 14 marks and chapter - 5 marks

Day 1:
a. Students will be shown a ppt and will be made aware of male reproductive system.
b. Students will be asked to make diagram of male reproductive system.
c. Students will be told about the accessory ducts in male reproductive system and structure of mammary glands.
Guided practice: DOL 1
a. Students will be made to draw diagrams to show male reproductive system.
Summarize and check for understanding: DOL 2
a. Oral questioning based on the day's teaching.
Communication and creativity: Involves sharing of ideas, drawing diagrams to advance scientific understanding, processes, theories and discoveries
Independent practice: DOL 3
a. Students will be asked to revise the work done in class.
b. Students will be asked to draw diagrams of male and female reproductive system in assignment copy.

Day 2:
a. Students will be shown a ppt and will be made aware of female reproductive system.

b. Students will be asked to make diagram of the female reproductive system.
c. Students will be told about all parts of female reproductive system and structure of mammary glands.
Guided practice: DOL 1
Students will be made to draw diagrams to show female reproductive system.
Summarize and check for understanding: DOL 2
Oral questioning based on the day's teaching.
Communication and creativity: Involves sharing of ideas, drawing diagrams to advance scientific understanding, processes, theories and discoveries
Independent practice: DOL 3
a. Students will be asked to revise the work done in class.
b. Students will be asked to draw diagrams of male and female reproductive system in assignment copy.

Day 3:
a. Students will be shown a ppt and will be made aware of spermatogenesis
b. Students will be told about the process of gametogenesis.
c. Students will be made aware of all differences between spermatogenesis and oogenesis.
Guided practice: DOL 1
a. Students will be made to recall spermatogenesis.
b. Students will be asked to make a flow chart to show spermatogenesis.
c. Students will be asked to make a flow chart to show oogenesis.
d. Students will be asked to list all the differences between spermatogenesis and oogenesis.
Summarize and check for understanding: DOL 2
a. Oral questioning based on the day's teaching
b. Discussion on the topic in groups – differences between spermatogenesis and oogenesis.
Communication and brainstorming: Students develop effective communication skills and learn to put across their views.
Critical thinking and problem solving: Helps students to think critically and solve the given problem
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 process of spermatogenesis and oogenesis.
c. Students will be asked to describe differences between spermatogenesis and oogenesis.

Day 4:
a. Students will be shown a ppt and will be made aware of cyclical changes taking place in ovary and uterus of human females.
b. Students will be told about levels of hormones during various stages of menstrual cycle.
c. Students will be made aware of transport of ovum through fallopian tube.
Guided practice: DOL 1
a. Students will be made to draw a diagram to show various stages of menstrual cycle.
b. Students will be asked to list all phases of menstrual cycle and mention levels of hormones during these phases.
c. Students will be asked to diagrammatically explain transport of ovum through fallopian tube.
Summarize and check for understanding: DOL 2
a. Oral questioning based on the day's teaching
b. Discussion on the topic in groups – fertilization events and embryonic development.
Communication and brainstorming: Students develop effective communication skills and learn to put across their views.
Critical thinking and problem solving: Helps students to think critically and solve the given problem
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 explain fertilization events.
c. Students will be asked to draw a diagram to show menstrual cycle.

Day 5:
a. Students will be shown a ppt and will be made aware of placenta and its functions.
b. Students will be told about germ layers and their importance.
c. Students will be made aware of parturition and lactation.
Guided practice: DOL 1
a. Students will be made to discuss importance of colostrums.
b. Students will be asked to explain germ layers.
c. Students will be asked to describe foetus ejection reflex.

Summarize and check for understanding: DOL 2
a. Oral questioning based on the day's teaching
b. Discussion on the topic in groups – Dual function of placenta.
Communication: Involves sharing of ideas and information to advance scientific understanding, processes, theories and discoveries
Communication 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 list hormones secreted by placenta.
c. Students will be asked to name organs formed by the germ layers.

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