

YEAR 8 SCIENCE: Biological Science

Year 8 Australian Curriculum Achievement Standard:

By the end of Year 8, students compare physical and chemical changes and use the particle model to explain and predict the properties and behaviours of substances. They identify different forms of energy and describe how energy transfers and transformations cause change in simple systems. They compare processes of rock formation, including the timescales involved. They will analyse the relationship between structure and function at cell, organ and body system levels. Students examine the different science knowledge used in occupations. They explain how evidence has led to an improved understanding of a scientific idea and describe situations in which scientists collaborated to generate solutions to contemporary problems. They reflect on implications of these solutions for different groups in society.

Students identify and construct questions and problems that they can investigate scientifically. They consider safety and ethics when planning investigations, including designing field or experimental methods. They identify variables to be changed, measured and controlled. Students construct representations of their data to reveal and analyse patterns and trends, and use these when justifying their conclusions. They explain how modifications to methods could improve the quality of their data and apply their own scientific knowledge and investigation findings to evaluate claims made by others. They use appropriate language and representations to communicate science ideas, methods and findings in a range of text types.

Unit Specific Information

In this unit students will identify cells as the basic units of living things and their specialised structures. They will use microscopes and digital images to distinguish between multicellular and unicellular organisms. Students will correctly draw scientific specimen diagrams from microscopic observations. They will compare similarities and differences between plant and animal cell structure.

Students will examine scientific work about cell formation and the processes of cell division via mitosis in organisms. They will analyse the development of the cell theory as a result of historical scientific work and use the findings to validate the tenets of the theory.

Assessment Details:

Mode	Assignment 1 (SHE Investigation)	Assignment 2 (Exam)
Duration	1 x 70 min lesson	1 x 70 min lessons
Conditions	Individual 400 words maximum Stimulus provided	Individual 1500 words maximum Access to library resources Multi-modal, oral/ video presentation
Dates	Term 1, Week 5	Term 1, Week 10

<p>READING / VIEWING/ LISTENING:</p> <ul style="list-style-type: none"> Core Text: OBI 8 Science Ways textbook Jacaranda Textbook Buehl, Comprehension strategies New ASOT 	<p>COMPREHENSION SKILL FOCUS:</p> <ul style="list-style-type: none"> Different Perspectives for Reading (Buehl, p 91-93) Power Notes (Buehl, p155-157) Text Coding (Buehl, p210 -213) Magnet summary/ words 	<p>THINKING (cognitive words):</p> <ul style="list-style-type: none"> Analyse Explain Describe Identify Construct 	<p>WRITTEN / SPOKEN / MULTI-MODAL TEXT</p> <ul style="list-style-type: none"> Extended response (IA3-like), multi-modal assignments 	<p>HIGHLY VALUED LANGUAGE FEATURE FOCUS:</p> <ul style="list-style-type: none"> Assessing validity of scientific information (data & sources) Reading & interpreting graphs Explaining and evaluating concepts using scientific evidence
--	--	---	---	--

PRIORITY STANDARDS (Do, know, think proficiency scales)

	Thinking Routines : Comprehension and Cognitive	Communication
4	Justify	
3	Explain Analyse	
2	Construct Describe Partial skills of Level 3	

Guaranteed Vocabulary:			Design Question Three Strategy	Design Question Four Strategy	21st Century Skill:
Cell Cell membrane Cell theory Chloroplast Cytoplasm Microscope Mitochondrion Mitosis Nucleus Organelle	Function Organism Asexual reproduction Sexual reproduction Fertilisation Foetus Gamete	In vitro fertilisation Pollination Reproduction Zygote Structure Photosynthesis Protein Respiration Ribosome	Science by Doing resources Homework sheets to review Concept mapping Venn diagrams to compare	Science by Doing resources Mind mapping Short and long term effects Practical Experimentation of plant growth	Use of ICT for learning Collaboration <i>Knowledge construction</i>
Guaranteed Skills/Language Features:			Reading Comprehension Skill and Strategy	CCEs and Key Terms:	ICT to Enhance Learning:
Factorial explanation Sequential explanation Consequential explanation			Connecting to prior knowledge Creating mental images <i>(Buehl, D. page 53)</i>	<i>Comparing</i> <i>Classifying</i> <i>Analysing</i> <i>Inferring</i> <i>Identifying</i> <i>Synthesising</i>	Digital simulations Science by doing OB18 resources Education perfect resources (some classes)

Possible Habit of Mind:				
Exploring Meaning of the HOM By the end of this unit students will be able to:	Expanding Capacity for using the HOM By the end of this unit students will be able to:	Increasing Alertness for the HOM By the end of this unit students will be able to:	Extending Values of the HOM By the end of this unit students will be able to:	Building Commitment towards the HOM By the end of this unit students will be able to:
General Capabilities: This unit provides opportunities for students to engage in following capabilities:				
Literacy <input checked="" type="checkbox"/> Comprehending texts through listening, reading and viewing <input checked="" type="checkbox"/> Composing texts through speaking, writing and creating <input checked="" type="checkbox"/> Text knowledge <input checked="" type="checkbox"/> Grammar knowledge <input checked="" type="checkbox"/> Word knowledge <input checked="" type="checkbox"/> Visual knowledge Numeracy <input checked="" type="checkbox"/> Estimating and calculating with whole numbers <input type="checkbox"/> Recognising and using patterns and relationships <input type="checkbox"/> Using fractions, decimals, percentages, ratios and rates <input type="checkbox"/> Using spatial reasoning <input checked="" type="checkbox"/> Interpreting statistical information <input type="checkbox"/> Using measurement	ICT <input type="checkbox"/> Applying social and ethical protocols and practices when using ICT <input type="checkbox"/> Investigating with ICT <input type="checkbox"/> Creating with ICT <input type="checkbox"/> Communicating with ICT <input checked="" type="checkbox"/> Managing and operating ICT Critical and creative thinking <input checked="" type="checkbox"/> Inquiring - identifying, exploring and organising information and ideas <input checked="" type="checkbox"/> Generating ideas, possibilities and actions <input checked="" type="checkbox"/> Reflecting on thinking and processes <input checked="" type="checkbox"/> Analysing, synthesising and evaluating reasoning and procedures	Personal and social capability <input checked="" type="checkbox"/> Self-awareness <input checked="" type="checkbox"/> Self-management <input checked="" type="checkbox"/> Social awareness <input type="checkbox"/> Social management Ethical understanding <input type="checkbox"/> Understanding ethical concepts and issues <input type="checkbox"/> Reasoning in decision making and actions <input type="checkbox"/> Exploring values, rights and responsibilities Intercultural understanding <input type="checkbox"/> Recognising culture and developing respect <input type="checkbox"/> Interacting and empathising with others <input type="checkbox"/> Reflecting on intercultural experiences and taking responsibility		
Cross Curriculum Priorities:				
<input type="checkbox"/> Aboriginal and Torres Strait Islander histories and cultures	<input type="checkbox"/> Asia and Australia's engagement with Asia	<input type="checkbox"/> Sustainability		
Differentiation [for small groups or individuals]:				
<ul style="list-style-type: none"> Increased scaffolding around assessment task for students with low literacy Plan open-ended lesson tasks that required higher order thinking skills from more capable students Include academic rigour to content of lessons Use formative assessment to monitor student progress and plan accordingly 				

Learning Goals:

Strands and Sub-Strands	Australian Curriculum Content Descriptors	Kirwan High Learning Goals
Science understanding		
Biological sciences	<ul style="list-style-type: none"> Cells are the basic units of living things and have specialised structures and functions (ACSSU149) Multi-cellular organisms contain systems of organs that carry out specialised functions that enable them to survive and reproduce (ACSSU150) 	<ul style="list-style-type: none"> <u>Identify</u> structures within cells and describe their function <u>Distinguish</u> plant cells from animal cells or fungal cells <u>Examine</u> a variety of cells using a light microscope <u>Compare</u> the digestive system in herbivores and carnivores <u>Describe</u> the structure of the mouth, esophagus, stomach and large intestine in the digestive system and relate its function to the overall function of the digestive system <u>Compare</u> similar systems on different organisms
Science as human endeavour		
Nature and development of science	<ul style="list-style-type: none"> Scientific knowledge has changed peoples' understanding of the world and is refined as new evidence becomes available (ACSHE134) 	<ul style="list-style-type: none"> <u>Investigate</u> the development of the microscope and the impact it has had on the understanding of cell functions and division
<ul style="list-style-type: none"> Science Inquiry Skills 		
Communicating	Communicate ideas, findings and solutions to problems using scientific language and representations using digital technologies as appropriate (ACSIS148)	<ul style="list-style-type: none"> <u>Use</u> appropriate scientific vocabulary to communicate ideas related to biological systems to a scientific audience <u>Use</u> labelled diagrams and flowcharts to represent biological systems

Week	Lesson 1	Lesson 2	Lesson 3
<p>1</p> <p>27/01</p>	<p style="text-align: center;">Australia Day Public Holiday</p>		<p>Year 8 Science Overview/Introduction Lesson</p> <ul style="list-style-type: none"> • Establish routines and procedures- including KSHS entry and exit procedure, seating plans, attention signal • Establish science expectations- phone policy, equipment, bookwork, homework • Establish classroom identity. Suggestions include class contract, class mascot, class artefact, etc. • Students develop personal effort and behaviour goals for term 1- these should be revisited throughout the term. • Diagnostic testing- where are your kids? • Overview of Year 8 topics and timeline • Develop interest in term 1 topic • Students develop personal unit learning goals- this should be revisited throughout the year • Students develop personal achievement goals- these should be revisited throughout the term • Learning to Learn concept introduction
<p>2</p> <p>03/02</p>	<p>Learning Sequence 1: Living Organisms</p> <p>Accessing prior knowledge Identifying misconceptions</p> <p>RETRIEVAL LEARNING</p> <ul style="list-style-type: none"> • Review from year 7, the characteristics of a living organism: moves, reproduces, nutrients, grows, responds to stimuli, exchanges gases, produces waste, and requires water. • Review from Year 7, the necessary elements for life: oxygen, nutrients, water, and the removal of waste for life and their role in supporting life. <p>VOCABULARY Oxygen, waste, stimuli, gases, nutrients, organism, living, non-living</p>	<p>Learning Sequence 1: Living Organisms</p> <p>Accessing prior knowledge Interacting with prior knowledge</p> <p>RETRIEVAL LEARNING</p> <ul style="list-style-type: none"> • Review from year 7 that all living things are made up of cells which contain DNA <p>LEARNING BY DOING</p> <ul style="list-style-type: none"> • Investigate the differences and similarities between different types of cells using a light microscope. <p>VOCABULARY living organism, similarity, difference, cell, multicellular, unicellular, cell wall, nucleus, DNA,</p>	<p>Learning Sequence 2: Animal Cells</p> <p>Interacting with new knowledge</p> <p>COMPREHENSION LEARNING</p> <ul style="list-style-type: none"> • Describe the main features of animal cells and understand why some are multicellular vs. unicellular (surface area to volume ratios as an extension topic) • Identify structures within animal cells <p>VOCABULARY Animal, cell, multicellular, unicellular, organelle, cell membrane, nucleus, DNA, mitochondria, vacuole,</p>

	<p>PEDAGOGICAL STRATEGIES Learning to Learn Facilitate heterogeneous groups with well-defined group roles</p> <p>RESOURCES</p> <ul style="list-style-type: none"> • OBI7 page 50-52 • Education Perfect • T-Drive/Year 8 • Science by doing Chapter 1-2 • OBI8 page 3-5 	<p>observable evidence</p> <p>PEDAGOGICAL STRATEGIES Learning to Learn Facilitate heterogeneous groups with well-defined group roles</p> <p>RESOURCES</p> <ul style="list-style-type: none"> • Light microscopes • OBI8 pp. 9-13 • Prepared slides of various cell types 	<p>cytoplasm, ribosome, lysosome</p> <p>PEDAGOGICAL STRATEGIES LEARNING THROUGH COGNITIVE VERBS: Describe, identify Learning to Learn: using diagrams to identify phenomena</p> <p>RESOURCES</p> <ul style="list-style-type: none"> • Education Perfect • OBI8 • T-Drive/Year 8 • Science ways 1 chapter 8.1
<p>3 10/02</p>	<p>Learning Sequence 2: Animal Cells</p> <p>Interacting with new knowledge Practicing and deepening</p> <p>RETRIEVAL LEARNING</p> <ul style="list-style-type: none"> • Review from previous lesson: Identify the structures of an animal cell by constructing a cell diagram <p>COMPREHENSION LEARNING</p> <ul style="list-style-type: none"> • Describe the functions of different structures within animal cells • Explain why each organelle has its own specific “job” within the cell and how they contribute to the overall function of the cell <p>VOCABULARY Animal, cell, multicellular, unicellular, organelle, cell membrane, nucleus, DNA, mitochondria, vacuole, cytoplasm, ribosome, lysosome</p> <p>PEDAGOGICAL STRATEGIES LEARNING THROUGH COGNITIVE VERBS: Describe, explain Learning to Learn: Facilitate the use of a Jigsaw type activity with heterogeneous groups with well-defined group roles.</p>	<p>JUNIOR SWIMMING CARNIVAL</p>	<p>Learning Sequence 2: Plant Cells</p> <p>Interacting with new knowledge Practicing and deepening</p> <p>COMPREHENSION LEARNING</p> <ul style="list-style-type: none"> • Describe the main features of plant cells and understand why some are multicellular vs. unicellular (surface area to volume ratios as an extension topic) • Identify the main structures of plant cells • Describe the functions of organelles within a plant cell <p>VOCABULARY Chloroplast, cell wall, plant cell, animal, cell, multicellular, unicellular, organelle, cell membrane, nucleus, DNA, mitochondria, vacuole, cytoplasm, ribosome, lysosome</p> <p>PEDAGOGICAL STRATEGIES LEARNING THROUGH COGNITIVE VERBS: Describe, identify Learning to Learn: Facilitate the use of a Jigsaw type activity with heterogeneous groups with well-defined group roles.</p> <p>RESOURCES</p>

	<p>RESOURCES</p> <ul style="list-style-type: none"> • Education Perfect • OBI8 • T-Drive/Year 8 		<ul style="list-style-type: none"> • Education Perfect • OBI8 • T-Drive/Year 8
<p>4 17/02</p>	<p>Learning Sequence 3: Plant and Animal cells</p> <p>Comprehension Segment Practicing and deepening</p> <p>COMPREHENSION LEARNING</p> <ul style="list-style-type: none"> • Examine a variety of cells using a light microscope • Distinguish plant cells from animal or fungal cells • Construct scientific diagrams of a plant and animal cells <p>VOCABULARY Microscope, magnification, focus, eyepiece, lens, chloroplast, cell wall, plant cell, animal, cell, multicellular, unicellular, organelle, cell membrane, nucleus, DNA, mitochondria, vacuole, cytoplasm, ribosome, lysosome</p> <p>PEDAGOGICAL STRATEGIES LEARNING THROUGH COGNITIVE VERBS: Examine, identify, construct Learning to Learn: Use diagrams to describe phenomena</p> <p>RESOURCES</p> <ul style="list-style-type: none"> • Light microscopes • Prepared plant and animal cell slides • OBI8 <p>T-Drive/Year 8</p>	<p>Learning Sequence 3: Plant and Animal cells</p> <p>Comprehension Segment Practicing and deepening</p> <p>COMPREHENSION LEARNING</p> <ul style="list-style-type: none"> • Distinguish plant cells from animal or fungal cells • Explain, using a factorial explanation that includes a graphic organiser, why plant cells have organelles that animal cells do not (larger vacuole, chloroplast, cell wall) <p>VOCABULARY Chloroplast, cell wall, plant cell, animal, cell, multicellular, unicellular, organelle, cell membrane, nucleus, DNA, mitochondria, vacuole, cytoplasm, ribosome, lysosome</p> <p>PEDAGOGICAL STRATEGIES LEARNING THROUGH COGNITIVE VERBS: Examine, identify, construct Learning through writing: Practice writing explanations</p> <p>RESOURCES</p> <ul style="list-style-type: none"> • Light microscopes • Prepared plant and animal cell slides • OBI8 <p>T-Drive/Year 8</p>	<p>CATCH UP/EXTENSION 40 min.</p> <p>FORMATIVE ASSESSMENT #1 on Learning Sequences 1-3 MC AND SHORT RESPONSE (20min.)</p>

<p>5 24/02</p>	<p style="text-align: center;">SUMMATIVE ASSESSMENT #1- SHE investigation: the development of the light microscope (60min.)</p>	<p>Learning Sequence 4: Cellular Reproduction</p> <p>Interacting with new knowledge Practicing and deepening</p> <p>COMPREHENSION LEARNING</p> <ul style="list-style-type: none"> Recognise that cells reproduce via cell division Describe the purpose of cellular reproduction (mitosis vs. meiosis) <p>ANALYSIS LEARNING</p> <ul style="list-style-type: none"> Analyse how the human body is able to repair itself when injured through the use of cell division <p>VOCABULARY Cell, division, mitosis, meiosis, reproduction, DNA, function, survival, growth, repair, genes, traits</p> <p>Extension vocabulary Interphase, prophase, metaphase, anaphase, telophase, cytokinesis</p> <p>PEDAGOGICAL STRATEGIES LEARNING THROUGH COGNITIVE VERBS: recognise, describe Learning through writing: practice writing explanations using the topic: why it is important for cells to reproduce</p> <p>RESOURCES</p> <ul style="list-style-type: none"> Education Perfect OBI8 T-Drive/Year 8 	<p>Learning Sequence 4: Cells reproducing to form tissues, organs and body systems</p> <p>Interacting with new knowledge Practicing and deepening</p> <p>COMPREHENSION LEARNING</p> <ul style="list-style-type: none"> Describe how cells reproduce to form tissues, organs, and body systems Explain the function and importance of the major body systems that enable an organism to survive and reproduce. <p>VOCABULARY Cell, division, reproduction, DNA, function, survival, growth, repair, genes, traits, tissue, organ, organelle, body system, digestion, respiratory, nervous, skeletal, circulatory, muscular</p> <p>PEDAGOGICAL STRATEGIES LEARNING THROUGH COGNITIVE VERBS: recognise, describe Learning to learn: Facilitate the use of a Jigsaw type activity with heterogeneous groups with well-defined group roles.</p> <p>RESOURCES</p> <ul style="list-style-type: none"> Education Perfect OBI8 T-Drive/Year 8
--------------------	--	--	--

<p>6 02/03</p>	<p>Learning Sequence 5: Human Reproduction</p> <p>Interacting with new knowledge Practicing and deepening</p> <p>RETRIEVAL LEARNING</p> <ul style="list-style-type: none"> Review from previous learning sequence: cells reproduce via meiosis and mitosis <p>COMPREHENSION LEARNING</p> <ul style="list-style-type: none"> Understand that organisms can reproduce via sexual or asexual reproduction. Describe the main processes involved in human reproduction (intercourse, joining of gametes via fertilisation, foetal development/pregnancy, birth, young) Explain the function and importance of the human reproductive system in supporting life processes (passing on of genes from one generation to the next) <p>VOCABULARY Cell, division, reproduction, DNA, function, survival, growth, repair, genes, traits, tissue, organ, organelle, body system, sexual, asexual, meiosis, mitosis, intercourse, gametes, sperm, egg, fertilisation, foetus, pregnancy, young</p> <p>PEDAGOGICAL STRATEGIES LEARNING THROUGH COGNITIVE VERBS: Understand, review, describe, explain Learning to learn: Facilitate the use of a Jigsaw type activity with heterogeneous groups with well-defined group roles.</p> <p>RESOURCES</p> <ul style="list-style-type: none"> Education Perfect OBI8 T-Drive/Year 8 	<p>Learning Sequence 5: Male Reproductive System</p> <p>Interacting with new knowledge Practicing and deepening</p> <p>RETRIEVAL LEARNING</p> <ul style="list-style-type: none"> Recall the purpose of the male reproductive system <p>COMPREHENSION LEARNING</p> <ul style="list-style-type: none"> Identify the organs of the male reproductive system Describe how the structure and function of the organs of the male reproductive system relate to its overall function <p>VOCABULARY Cell, division, reproduction, DNA, function, survival, growth, repair, genes, traits, tissue, organ, organelle, body system, sexual, asexual, meiosis, mitosis, intercourse, gametes, sperm, egg, fertilisation, foetus, pregnancy, young, testes, penis, scrotum, urethra, prostate, epididymis, vas deferens, testosterone, puberty, semen, ejaculation</p> <p>PEDAGOGICAL STRATEGIES LEARNING THROUGH COGNITIVE VERBS: identify describe, Learning to learn: Use diagrams to describe phenomena, describing concepts using own words</p> <p>RESOURCES</p> <ul style="list-style-type: none"> Education Perfect OBI8 T-Drive/Year 8 	<p>Learning Sequence 5: Female Reproductive System</p> <p>Interacting with new knowledge Practicing and deepening</p> <p>RETRIEVAL LEARNING</p> <ul style="list-style-type: none"> Recall the purpose of the female reproductive system <p>COMPREHENSION LEARNING</p> <ul style="list-style-type: none"> Identify the organs of the female reproductive system Describe how the structure and function of the organs of the female reproductive system relate to its overall function <p>VOCABULARY Cell, division, reproduction, DNA, function, survival, growth, repair, genes, traits, tissue, organ, organelle, body system, sexual, asexual, meiosis, mitosis, intercourse, gametes, sperm, egg, fertilisation, foetus, pregnancy, young, testes, penis, scrotum, urethra, prostate, epididymis, vas deferens, testosterone, puberty, semen, ejaculation, vagina, uterus, ovaries, oestrogen, progesterone, fallopian tube, cervix</p> <p>PEDAGOGICAL STRATEGIES LEARNING THROUGH COGNITIVE VERBS: identify describe, Learning to learn: Use diagrams to describe phenomena, describing concepts using own words</p> <p>RESOURCES</p> <ul style="list-style-type: none"> Education Perfect OBI8 T-Drive/Year 8
--------------------	---	--	--

<p>7 09/03</p>	<p>Learning Sequence 5: Influencing Reproduction</p> <p>Practicing and deepening: Case study</p> <p>RETRIEVAL LEARNING</p> <ul style="list-style-type: none"> Recall the purpose of the human reproductive system Recall that many organisms reproduce asexually <p>COMPREHENSION LEARNING</p> <ul style="list-style-type: none"> #1: Compare the different ways that humans influence reproduction (IVF, selective breeding, desexing, contraception, etc.) <p>OR</p> <ul style="list-style-type: none"> #2: Compare sexual and asexual reproduction: which would result in healthier offspring? <p>VOCABULARY Cell, division, reproduction, DNA, function, survival, growth, repair, genes, traits, tissue, organ, organelle, body system, sexual, asexual, meiosis, mitosis, intercourse, gametes, sperm, egg, fertilisation, foetus, pregnancy, young, testes, penis, scrotum, urethra, prostate, epididymis, vas deferens, testosterone, puberty, semen, ejaculation, vagina, uterus, ovaries, oestrogen, progesterone, fallopian tube, cervix</p> <p>PEDAGOGICAL STRATEGIES LEARNING THROUGH COGNITIVE VERBS: compare, explain Learning through writing: #1: Compare and explain which of the methods of influencing reproduction would be most ethical</p> <p>OR #2: Compare and explain why humans reproducing sexually results in healthier offspring than if we reproduced asexually.</p> <p>RESOURCES</p> <ul style="list-style-type: none"> Education Perfect OBI8 T-Drive/Year 8 	<p>CATCH UP/REVIEW OF LEARNING SEQUENCES 1-5/EXTENSION</p>	<p>FORMATIVE ASSESSMENT #2 on learning sequences 4-5 MC AND SHORT RESPONSE (40 min.)</p>
--------------------	---	---	--

<p>8 16/03</p>	<p>Learning Sequence 6: The Digestive System</p> <p>Interacting with new knowledge Practicing and deepening:</p> <p>RETRIEVAL LEARNING</p> <ul style="list-style-type: none"> Recall the purpose of the human digestive system <p>COMPREHENSION LEARNING</p> <ul style="list-style-type: none"> Describe mechanical and chemical digestion Identify the main organs of the digestive system (teeth, stomach, small intestine, large intestine,) Explain how food passes through the digestive system <p>VOCABULARY Digestion, mechanical, chemical, teeth, stomach, oesophagus, small intestine, large intestine, rectum, anus, Extension vocabulary: ingested, egested, peristalsis, villi, bile, chyme, pancreas, gall bladder, cellulose, etc.</p> <p>PEDAGOGICAL STRATEGIES LEARNING THROUGH COGNITIVE VERBS: Describe, identify, explain Learning to learn: Facilitate the use of a Jigsaw type activity with heterogeneous groups with well-defined group roles.</p> <p>RESOURCES</p> <ul style="list-style-type: none"> Education Perfect OBI8 T-Drive/Year 8 	<p>Learning Sequence 6: The Digestive System</p> <p>Interacting with new knowledge Practicing and deepening:</p> <p>RETRIEVAL LEARNING</p> <ul style="list-style-type: none"> Recall the purpose of the human digestive system Recall the main organs of the digestive system <p>COMPREHENSION LEARNING</p> <ul style="list-style-type: none"> Identify the main types of food eaten by carnivores, herbivores, and omnivores Describe the differences and similarities between the digestive systems of carnivores, herbivores, and omnivores <p>VOCABULARY Digestion, mechanical, chemical, teeth, stomach, oesophagus, small intestine, large intestine, rectum, anus, Extension vocabulary: peristalsis, villi, bile, chyme, pancreas, gall bladder, cellulose, etc.</p> <p>PEDAGOGICAL STRATEGIES LEARNING THROUGH COGNITIVE VERBS: Describe, identify, Learning to learn: Facilitate the use of a Jigsaw type activity with heterogeneous groups with well-defined group roles.</p> <p>RESOURCES</p> <ul style="list-style-type: none"> Education Perfect OBI8 T-Drive/Year 8 	<p>Learning Sequence 7: Consolidation of Body Systems</p> <p>Practicing and deepening:</p> <p>COMPREHENSION LEARNING</p> <ul style="list-style-type: none"> Explain how the organ systems (digestive and reproductive) of the human body contribute to its ability to survive and reproduce. <p>VOCABULARY Digestion, mechanical, chemical, teeth, stomach, oesophagus, small intestine, large intestine, rectum, anus, Extension vocabulary: peristalsis, villi, bile, chyme, pancreas, gall bladder, cellulose, etc.</p> <p>PEDAGOGICAL STRATEGIES LEARNING THROUGH COGNITIVE VERBS: Explain Learning through writing: Write a factorial explanation of how the digestive and reproductive systems of the human body allow it to survive and reproduce.</p> <p>RESOURCES</p> <ul style="list-style-type: none"> Education Perfect OBI8 T-Drive/Year 8
<p>9 23/03</p>	<p style="text-align: center;">Revision</p>	<p style="text-align: center;">Revision</p>	<p style="text-align: center;">Revision</p>
<p>10 30/03</p>	<p>SUMMATIVE ASSESSMENT #2- SU and SIS (60 min.)</p>	<p>Extension Learning through Data</p>	<p>Extension Learning through Data</p>