Year 7 Biology Units Studied & Learning Outcomes

Overview of Unit/No. lessons

Cells and Organisation and Survival/16 lessons

Lesson Sequence of Content:

Lesson 1-Understanding what makes something living

Lesson 2 & 3-Learning about parts of plant and animal cells.

Lesson 4-The light microscope and how it works

Lesson 5-Using the light microscope to observe specimens

Lesson 6-Learning about specialised animal cells

Lesson 7-Learning about specialised plant cells

Lesson 8-Classification

Lesson 9-Understanding diffusion

Lesson 10-Learning about tissues

Lesson 11-Learning about organs

Lesson 12-Learning about organ systems

Lesson 13-Adaptations of organisms for survival

Lesson 14-Natural selection and the survival of organisms

Lesson 15-End of unit test and application

Lesson 16- Long Answer Question

Prior	Current	Next
Year 6 –	Year 7- The	Year 9 – Cells,
Identifying	content of a	tissues, organs
heart, lungs	healthy human	and systems.
and blood	diet.	Microscopy and
vessels.	-Consequences	stem cells.
Adaptations of	of imbalances in	Year 10 –
organisms to	the diet	Transport in and
their	 Tissues and 	out of cells.
environment.	organs of the	Year 11 –
	human digestive	Adaptations for
	system and how	survival, Natural
	food is digested.	selection and the
		theories of
		evolution.

- GW: Identify names cell organelles, tissues, organs and systems. State substances that move in and out of cells
- BI: Can link organs in the organ systems to their roles and the adaptations they have to perform the role.
 Can describe the roles of specialised cells and the adaptations they have. Can predict which way substances might diffuse.
- EW: Can suggest how unfamiliar adaptations might allow organisms to survive. Can understand how diffusion might speed up or slow down and identify how cells are adapted to maximise diffusion.

0

Overview of Unit/No. lessons

Reproduction: 11 lessons

Lesson **Sequence** of Content:

Lesson 1-The Egg and The Sperm

Lesson 2-Male and Female reproductive organs

Lesson 3-Growth in the womb

Lesson 4-The Menstrual Cycle

Lesson 5-Puberty

Lesson 6-Mother to Baby

Lesson 7-Plant structure and fertilisation

Lesson 8-Spreading pollen

Lesson 9-Inside the Nucleus

Lesson 10-End of unit test and application

Lesson 11-Long Answer Question

Prior	Current	Next
N/A	Understand	Year 9 –
	Reproduction in	Hormones
	Humans and	
	Plants	Year 11 –
		Inheritance

- **GW:** Recall the main cells and organs involved in reproduction
- **BI:** Describe how reproduction occurs in plants and animals
- **EW:** Explain the role of the nucleus in reproduction

0

Overview of Unit/No. lessons

Nutrition and digestion/11 lessons

Lesson Sequence of Content:

Nutrition and digestion:

Lesson 1-Understanding what diet means and how foods can be grouped and what nutrients are

Lesson 2-Knowing what a balanced diet is and how this links to the nutrients we need.

Lesson 3 & 4-Using chemical reagents to test for nutrients in food

Lesson 5 & 6-Learning about the structure and function of the digestive system $\,$

Lesson 7-Modelling absorption of nutrients in the small intestines

Lesson 8-Understand what digestive enzymes are and how they work inside the digestive system

Lesson 9-The consequences of imbalances in the diet

Lesson 10-End of unit test and application

Lesson 11-Long answer question

Prior Current Next

m	Year 10 –		
m		KS3 NC- The	Year 6 –
111	Digestive system	content of a	Lifestyle and
	and enzymes.	healthy human	health –
		diet.	impact on
		-Consequences of	the body
		imbalances in the	Year 7 -
		diet	Organ
		- Tissues and	systems
		organs of the	
		human digestive	
		system and how	
		food is digested.	
	•	-Consequences of imbalances in the diet - Tissues and organs of the human digestive system and how	the body Year 7 - Organ

- **GW**: Identify names of nutrients, foods that contain them and basic structures of the digestive system
- BI: Can link organs in the digestive system to their roles and the adaptations they have to perform the role. Can describe what a digestive enzyme is.
- **EW:** Can evaluate the role of digestive enzymes and explain their importance making links to absorption.