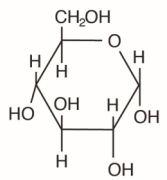
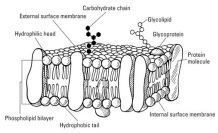
BIOLOGY LEARNING JOURNEY: *Develop an understanding of natural phenomena and how the world works through scientific enquiry and analysis.*

YEAR 13

CLONING AND BIOTECHNOLOGY
PATTERNS OF INHERITANCE
PLANT AND ANIMAL RESPONSES
RESPIRATION
HORMONAL CONTROL
COMMUNICATION AND HOMEOSTASIS
PRACTICAL SKILLS



MANIPULATING GENOMES
CELLULAR CONTROL
PHOTOSYNTHESIS
NEURONAL CONTROL
EXCRETION



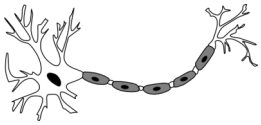
YEAR 12

BIOLOGICAL MOLECULES
NUCLEIC ACIDS
ENZYMES
MEMBRNAES
CLASSIFICATION
ECOSYSTEMS
CELL STRUCTURE

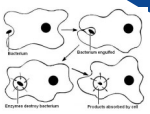
EXCHANGE SURFACES AND BREATHING
TRANSPORT IN
TRANSPORT IN PLANTS
CELL DIVISION
COMMUNICABLE DISEASE
POPULATIONS AND SUSTAINABILITY

Inheritance, understanding cells and biological processes
-Topic : Inheritance, variation and evolution
Genetics, observations of organisms and manipulation of organisms

Homeostasis and systems or organisms
-Topic : Homeostasis and response
Control systems in organisms



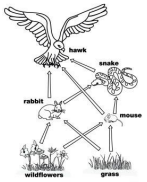
YEAR 11



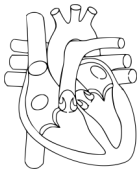
Systems of organisms and understanding cells
-Topic : Infection and response
Pathogens and responses to deal with them

Biological processes and understanding cells
-Topic : Bioenergetics
Develop understanding of photosynthesis and respiration

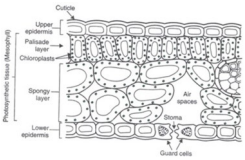
Ecology
-Topic : Ecology
Organisms interactions with each other and the environment



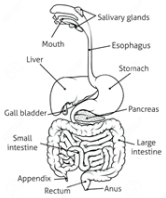
YEAR 10



Systems or organisms, understanding cells and biological processes
-Topic : Organisation
Tissues, organs and organ systems

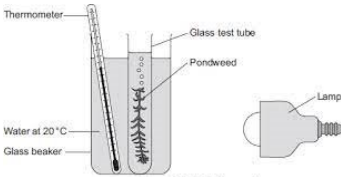


Understanding cells and systems of organisms
-Topic : Cells
Eukaryotic and prokaryotic cells

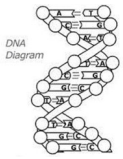


YEAR 9

Biological processes
-Topic : Respiration
Introduction to respiration reaction



Inheritance and understanding cells
-Topic : Variation
Introduction to inheritance

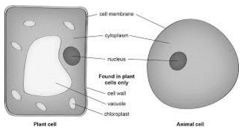


YEAR 8

Biological processes and systems of organisms
-Topic : Breathing and circulation
The structure of the breathing and circulatory system

Biological processes and systems of organisms
-Topic : Plants and photosynthesis
Introduction to photosynthesis reaction

Understanding Cells
-Topic : Introduction to cells
Living organisms
Using microscopes



YEAR 7

Ecology
-Topic: Interdependence
Food chains and food webs

Systems of organisms and Biological processes
-Topic: Reproduction
How humans reproduce

Systems of organisms
-Topic: Health and digestion
Digestion in humans
Food tests

WHAT DO WE RETURN TO ON OUR LEARNING JOURNEY?

Concepts/ Ideas	Skills
Understanding cells, Systems of organisms, Biological processes,	Enquiry skills (Investigation planning), Apparatus and techniques,
Homeostasis, Inheritance, Ecology	Analyse evidence, How scientists develop theories