



Biology Learning Journey at Manor High School

Paper 2
Homeostasis,
inheritance,
ecology

Paper 1
Cells and organisation,
infection and response,
bioenergetics

GCSES

Food
production *

Decomposition
and change *

Theory of
evolution,
speciation and
understanding of
genetics*

DNA
structure
*

Plant
hormones *

Temperature
control *

Homeostasis

Trophic levels *

Ecology

Cloning *

Inheritance
and
evolution

The kidney *

The Brain
and eye *

YEAR
11

Monoclonal
antibodies *

Infection
and
response

Bioenergetics

Cell biology

Organisation

*Culturing
microorganisms

Plant disease
and
prevention *

Highted topics
in triple only *

YEAR
10

Pathogens
and disease

Drugs and
health

Transport
in cells

Cell and
division

Eukaryotes
and
prokaryotes

YEAR
9

Defence
against
disease

Non
communicable
diseases

Stem cells

RPA-
microscopes

Effects of asthma,
exercise and
smoking

Anaerobic
respiration

Natural selection

Assessment

Gas
exchange

Cellular
respiration

Variation, DNA &
chromosomes

Extinction,
biodiversity, gene
banks

Bacteria
and
enzymes
in
digestion

Digestive
system

Food
tests

Transport in
plants

Photosynthesis

Disruption to food
chains and
bioaccumulation

Energy in
food

Balanced diet and
consequence of poor diet

Leaf adaption

Competition
and adaptation

Food webs
and
ecosystems

YEAR
8

Male and female
reproductive parts

Fertilisation

Gestation and
birth

Seed dispersal and
food security

Reproduction

Menstrual cycle
and puberty

Plant reproduction

Assessment

Skeletal and
muscular
systems

Organ
systems

Observing cells

Animal and
plant cells

YEAR
7

Specialised
cells

Unicellular
organisms