Bishop Heber High School

Subject	Year	Term
Biology	Year 9	3

Topic

Unit 2 Organisation

Content (Intent)

Prior Learning (Topic) Unit 1 Cells Continued

Students will have learnt SKILLS including investigating the effect of antiseptics or antibiotics on bacterial growth using agar plates and measuring zones of inhibition.
Students will have learnt and built upon their KNOWLEDGE about the concept of cell division and how mitosis is important in the growth and development of multicellular organisms.
Students will have UNDERSTOOD the roles of stem cells in embryos, in adult animals and in the meristems in plants.

Future Learning (Topic) Unit 3 Immunity and Response

What Knowledge and Skills will be taught (Implementation)	How will your understanding be assessed & recorded (Impact)
Knowledge –To recall that the human digestive system provides the body with nutrients and the respiratory system provides it with oxygen and removes carbon dioxide and how these materials are moved around the body in the blood by the circulatory system. To recall the types of enzyme, how they act and their importance. To identify coronary heart disease treatments and the impact of poor lifestyle choices on non-communicable disease. **Practical Skills** – **Required practical activity**: use qualitative reagents to test for a range of carbohydrates, lipids and proteins. To include: Benedict's test for sugars; iodine test for starch; and Biuret reagent for protein. **Required practical activity**: investigate the effect of pH on the rate of reaction of amylase enzyme. **Maths Skills** – Using ratio and fractions. Calculating rate, graph drawing, means	**Key Piece of work (Homework)** Pupils given a percentage and formative feedback provided. **End of topic test** Pupils given a percentage, formative feedback and GCSE equivalent grade. **Year 9 end of year exams** Pupils given a percentage, formative feedback and GCSE equivalent grade. **Interleaving Topics** **Unit 1 Cells –** Key Terms and concepts will be reviewed prior to the start of Unit 2 such as cell structure, specialised cells and transport in cells.

How can parents help at home?

Ensure all class work is completed and homework submitted on time.
Assist in ensuring the active use of the EDUCAKE online learning platform where each pupil is given a personal log on from their teachers.
Encourage pupils to revise for tests and exams and to create revision resources such as flash cards and posters.
Ensure all pupils have all their resources required for science lessons, including knowledge organisers, exercise books, pens and calculators

Helpful further reading/discussion (including Reading and Vocabulary Lists)

Reading

AQA revision guides
AQA revision cards
Resources on Teams
EDUCAKE online learning platform.
GCSE POD
BHHS Knowledge organisers

Vocabulary Lists

Enzyme
Carbohydrase
Amylase
Protease
Lipase
Lipids
Bile
Emulsify
Aorta
Vena Cava
Pulmonary Artery
Pulmonary Vein
Valves
Artery
Vein
Capillary