Bishop Heber High School

Subject	Year	Term
SCIENCE	7	3

Topic

Biology – Genes, Chemistry – The Earth, Physics – Waves

Content (Intent)

Prior Learning (Topic) Ecosystems, Reactions and Energy

Students will have a basic KNOWLEDGE on how to classify living organisms based on observable characteristics and how and why these characteristics developed, recall the movement of the Earth and Moon in relation to each other and the Sun. Recall the day, night and season patterns.
Students will have a good UNDERSTANDING of the reasons for classifying living organisms based on observable characteristics and that the movement of planets and moon within our solar system creates day/night cycles and seasons. They will also understand how the structure of the ear and the eye allow them to process sound and light.
Students will have the SKILLS to draw conclusions from observations of living organisms and for light and sound.

Future Learning (Topic) Organisms, Reactions, Forces

What Knowledge and Skills will be taught (Implementation)	How will your understanding be assessed & recorded (Impact)
Biology - There will be a sequence of lessons on the variation of characteristics within a species and between species due to the environment and inherited genetic information. This is then followed by a series of lessons on human reproduction. **Practical Skills** – Listing observed characteristics to classify organisms. **Maths Skills** – Identifying continuous and discontinuous data.	**Key Piece of work (Homework)** Pupils given a percentage and formative feedback. **End of topic test** Pupils given a percentage, formative feedback grade. Formative feedback provided. **End of year 7 exams** Pupils given a percentage, formative feedback grade.
Chemistry - There will be a sequence of lessons on the Earths structure, types of rocks, the rock cycle and ceramics. This is then followed by a further series of lessons on the moon, seasons and our solar system. **Physics** – There will be a sequence of lessons on sound and the properties of a sound wave, the ear's structure, the eye, reflection, refraction and colour. **Practical Skills** – observations of rock types and observing the properties of refraction and reflection.	**Key Piece of work (Homework)** Pupils given a percentage and formative feedback. **End of topic test** Pupils given a percentage, formative feedback grade. Formative feedback provided. **End of year 7 exams** Pupils given a percentage, formative feedback grade.

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

Use the Educake online learning platform
www.educake.co.uk/
Use BBC bitesize
https://www.bbc.com/bitesize/levels/z4kw2hv
Use and review the Knowledge Organisers used in class.

Vocabulary Lists

Variation	Continuous
Genetic	Discontinuous
Sedimentary	Refraction
Igneous	Amplitude
Metamorphic	Wavelength
Ceramics	