

Science Curriculum Map

Science Our Why?

The aim of Science at Discovery is to encourage students to become critical thinkers developing a systematic approach to work and questioning results and theories in a constructive manner. They will have opportunities to undertake practical activities throughout their Science journey Students will be encouraged to see the links throughout the entire school curriculum and to be able to apply their knowledge to real life problems through STEAM (Science, Technology, Engineering, Art and Maths) initiatives.

Big Ideas promoted in our Science Curriculum



Humankind



Nature



Place and
Space



Exploration



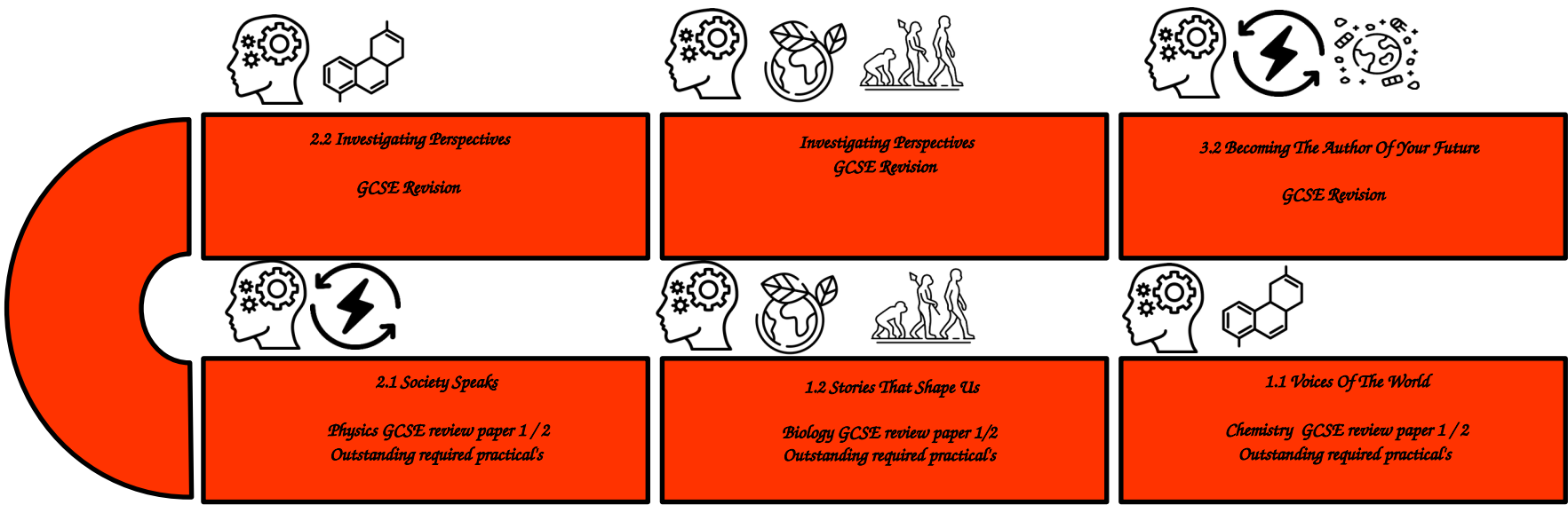
Creativity



Rights

Substantive Concepts of our Science Curriculum

	Earth and Space	The composition of the Earth and its atmosphere and the processes occurring within them to shape the Earth's surface and its climate. Our solar system is a very small part of the one of millions of galaxies in the Universe
	Elements Compounds and mixtures	An element is a pure substance made of only one type of atom. A compound is a substance made when two or more different elements are chemically bonded together. A mixture is when substances are physically combined but not chemically bonded.
	States of Matter	The states of matter describe the different forms that substances can exist in, depending on how their particles are arranged and how much energy they have.
	Evolution	The diversity of organisms living and extinct is the result of evolution.
	Environment and Habitat	The environment is everything around a living organism. Compared to the habitat is like the organism's "home" within the environment.
	Energy	Many processes or events involve change and require energy to make them happen. Energy can be transferred from one body to another in various ways. In these processes some energy is changed to a form that is less easy to use. Energy cannot be created or destroyed . Energy obtained from fossil fuels is no longer available in a convenient form for use.
	Critical thinking	Critical thinking is the ability to carefully analyse information, question ideas, and make reasoned decisions instead of just accepting things at face value.



Galaxy & Cosmos



2.2 Power & Conflict
Chemistry Paper 2 Unit 4 Chemistry in our world 7- 10



3.1 Resourcefulness & Resilience
Biology: Paper 2 Entry level component 2. Environment, evolution and inheritance unit 6 – 10



3.2 Identity
Physics paper 2 Component 6 Electricity, Magnetism and waves Units 7 – 10

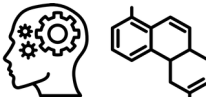
Eclipse
& Orbit



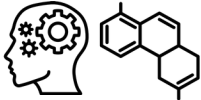
2.1 Social Divides, Rich & Poor
Physics paper 2 Component 6 Electricity, Magnetism and waves Units 1-6



1.2 A Christmas Carol
Biology: Paper 2 Entry level component 2. Environment, evolution and inheritance unit 1-5



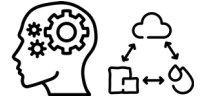
1.1 Macbeth
Chemistry Paper 2 Unit 4 Chemistry in our world 1-6



2.2 Blood Heart
Chemistry Entry Level Unit 3/4 stepped



3.1 Road Trip USA
Biology: Entry level 1/2 stepped



3.2 Am Warrior
Physics: Entry level Units 5 & 6 Stepped I

Nebular



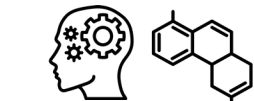
2.1 Tremors
Physics: Entry level Units 5 & 6 Stepped



1.2 Spirit
Biology: Entry level 1/2 stepped



1.1 I Gods & Mortals
Chemistry Entry Level Unit 3/4 stepped



2.2 Heroes & Villains
Chemistry: Paper 1 Entry Level Component 3 Elements and compounds Unit 5-10



3.1 Scream Machine
Biology: Paper 1 Entry Level 4 The Human body Unit 5-10



3.2 Allotment
Physics: Paper 1 Entry Level Component 5 Energy Force and structure Units 6-10

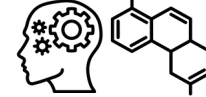
Stars &
Twilight



2.1 Peasants, Princes & Pestilence
Physics: Paper 1 Entry Level Component 5 Energy Force and structure Units 1-5



1.2 1066
Biology: Paper 1, Entry Level Component 4 The Human Body Units 1-4



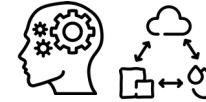
1.1 Stargazers
Chemistry: Paper 1, Entry level Component 3 Elements and compounds units 1- 5



2.2 Urban Pioneers
Chemistry: Properties of materials



3.1 Moon Zoom
Biology: Evolution and Inheritance



3.2 Interconnected World
Physics: Introduction to circuits series and parallel

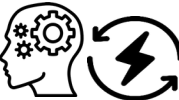
Nova &
Lunar



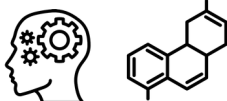
2.1 Predator
Physics: Continued exploration of space, planets and earth



1.2 Tribal Tales
Biology: What are the different habitats that animals and plants need



1.1 Ancient Egyptians
Chemistry: Explore the different forces, push, pull, gravity



2.2 Playlist
Chemistry: States of matter use play to enhance understanding of topic



3.1 Beat, Bangs & Boogie
Biology: Grow me what should I plant how do plants grow, Introduction into photosynthesis



3.2 Blue Abyss
Physics: Explore light shade and shadow

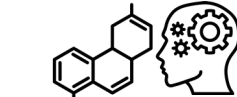
Comets &
Astro



2.1 Our Changing World
Physics: Exploring the relationship between earth and space



1.2 Traders & Raiders
Biology: Plants and Animals exploring basic food chains



1.1 Bright Lights Big City
Chemistry: Man made or natural how are things made.



2.2 Rio De Vida
Chemistry: Materials man made or natural appropriateness of use



3.1 Enchanted Woodland
Biology: Plants Key features and classification



3.2 Our Wonderful World
Physics: Explore through play forces and magnetism

Rockets



2.1 Paws, Claws & Whiskers
Physics: Identify seasonal change and stating key features of each season



1.2 Team
Biology: to classify animals including humans by their features and key aspects



1.1 Memory Box
Chemistry: to identify different materials their feel and use.