

Science Curriculum Map

Science - Our Why?

The Aim of Science at Discovery is to inspire curiosity, provoke thinking, understand scientific concepts and investigate questions. Scientific thinking and investigative skills prepare students for adulthood and lifelong learning and critical thinking about wider scientific issues. STEAM allows for students to apply their knowledge to a real life application, through cross curricular links with maths, technology and art. Pupils develop their knowledge and skills through our K&S Statements.

Big Ideas promoted in our Science Curriculum



Substantive Concepts of our Science Curriculum

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Cells	00	All organisms are constituted of one or more cells. Organisms are organised on a cellular basis. All the basic functions of life are the result of what happens inside the cells which makeup an organism. Growth is the result of multiple divisions
Energy	E	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.
Earth and Space	0.000000000000000000000000000000000000	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
Ecosystems		Organisms require a supply of energy and materials for which they are often dependent on or in completion with other organisms
Particles		All material in the universe is made of very small particles. Atoms are the building blocks of all materials, living and non-living . The behaviour of atoms explains the properties of different materials. Chemical reactions involve the rearrangement of atoms in substances to form new substances. Each atom has a nucleus containing neutrons and protons surrounded by electrons. The opposite electric charge of protons and electrons attract each other, keeping atoms together and accounting for the formation of some compounds.
Fields and Lightwaves	B	Objects can affect other objects at a distance, through light and sound, effect of radiation travelling out from the source to the receiver.
Evolution	<u>A A Rea</u>	The diversity of organisms living and extinct is the result of evolution.
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	2.2 U6 Eduction to GCSE Science, Paper 2- Chemical change: energy changes	
	2.1 U6 ntroduction to GCSE Scien try Paper 1 - Atomic struc bonding	

