



Science – Y7 Learning Outcomes

Skill	Foundation	Developing	Securing	Exceeding	Excelling
General	You can state key facts, using scientific terms.	You can identify key facts and processes, describing some functions using scientific terms.	You can describe processes and identify differences and changes related to simple processes, using correct key terms.	You can describe and explain processes, using simple models. You can use some correct scientific terms effectively.	You can use models and evidence to justify explanations of how processes work, using correct scientific terms.
Cells	You can state what organs are in the human body and what the parts of a cell are.	You can describe organs and systems in the human body including the different parts of a cell.	You can describe differences in animal and plant cells. You can describe the changes that take place during puberty.	You can explain processes in the human body, using models and abstract ideas. You can describe the sequence of events in reproduction in mammals and plants.	You can use models to explain the functions of different parts of the human body, plants and of different cells.
Particles	You can state a range of different materials including describing the differences in the three states of matter.	You can describe what happens to reactants in a chemical reaction, and record observations that happen during a chemical reaction.	You can describe differences between the properties of a range of materials in terms of particles. You can distinguish between chemical and physical reactions.	You can explain, in terms of particles, how chemical and physical changes happen and how new materials can be made. You can use word equations to describe reactions. You can group and classify different materials and identify patterns, e.g. acids and alkalis.	You can apply your knowledge of particles to explain the properties of every day materials. You can explain the differences in substances, by referring to the Periodic table. You can use formula equations to describe reactions.
Energy	You can state a range of properties about waves and link that to properties of light. You can state facts about sound and structure of the ear.	You can describe how light and sound travel and the link to wave properties.	You can describe the differences between light and sound. You can describe the properties of sound in terms of waves.	You can explain the different properties of light and sound, in terms of waves. You can use models to describe reflection and refraction.	You can explain how light and sound are reflected and refracted. You can apply this to explaining every day observations, and reducing risks.
Forces	You can state some different types of forces and describe how they affect the movement of objects. You can name some objects in the night sky in size order.	You can describe the link between different forces and how objects move. You can describe the motion of objects in our solar system.	You can describe how forces deform objects; affect their movement and the difference between balanced and unbalanced forces. You can describe how objects move in the night sky, and explain some of them.	You can explain how a range of different forces affect an object. You can explain the difference between unbalanced and balanced forces. You can explain how the properties of planets link to place in solar system.	You can explain which forces are acting on an object and make quantitative predictions about forces in unfamiliar situations. You can use data to predict the features of planets, phases of the moon and differences in seasons.
Literacy	You use full stops and capital letters correctly. You sometimes use commas, and can write in different tenses. You spell most simple words correctly. You can spell some more complicated words correctly.	You can use capital letters, commas and question marks correctly. You spell simple words, and some complex words, correctly.	You can use punctuation marks with accuracy including apostrophes for possession and omission. Your spelling is mostly accurate.	You can use a range of punctuation marks accurately. You use a range of connectives for effect. Your spelling is mostly accurate, except for unusual words.	You can use a full range of punctuation effectively. Your spelling is accurate, except for unusual words. You use paragraphs effectively.