

Science Y7



Michaelmas 1	<p><u>Introduction to science:</u> Describe how to work safely in a science lab Identify hazards, risks and precautions Describe what the scientific method is and how it is carried out</p> <p><u>Matter:</u> Identify the three states of matter and their properties Describe the changes of state Recognise the first 20 elements and their symbols</p>
Michaelmas 2	<p><u>Cells:</u> Identify the basic organelles within cells Describe the differences within plant and animal cells Explain what microscopes are and how they are used</p> <p><u>Energy:</u> Identify the various different energy stores Describe how energy can be transferred from one store to another Explain the uses of energy in the home and the environment</p>
Lent 1	<p><u>Acid and alkalis:</u> Define the term acid and alkali Describe properties of acids and alkalis Compare the uses of acids and alkalis</p> <p><u>Levels of organisation:</u> Describe the functions of common body systems e.g. digestive and skeletal system Identify which nutrients are necessary for a healthy diet Explain how cells, tissues, organs work together to allow the body to work together</p>
Lent 2	<p><u>Light:</u> Identify the colours and frequencies of light Describe the properties of light Explain how light behaves when it interacts with different materials</p> <p><u>Periodic table:</u> Identify the varying physical and chemical properties of elements Describe the patterns found on the periodic table and how they can be predicted Describe the properties of the elements on the periodic table</p>
Trinity 1	<p><u>Reproduction:</u> Describe the structure of the male and female reproductive systems Outline what happens during the menstrual cycle Explain what happens during gestation through to birth</p> <p><u>Forces:</u> Define what a force is Represent a force using a diagram Describe the effect on object if a force is applied</p>
Trinity 2	<p><u>Physical and chemical changes:</u> Identify whether a reaction is physical or chemical Describe the properties of physical and chemical reactions</p> <p><u>Sound and hearing:</u> Describe how sound is produced and heard Explain the properties of sound waves Determine how sound waves can be made louder or quieter</p>

