



Knowledge	Skills
<ul style="list-style-type: none"> • To be able to identify the main components and functions of the components of an animal and plant cell and describe how cells are specialised. • To define the term magnification and to calculate magnification. • To label parts of a microscope • To be able to prepare a slide of cells for viewing using the microscope. • To describe stem cells are and why we need them • What are the different types of energy and how is energy transferred • Calculate Kinetic gravitational potential and elastic potential energy using the equations • Calculate energy efficiency • Describe the structure of an atom • Definition of atomic number and mass number • Calculate the number of protons, neutrons and electrons in atoms and isotopes • Define what an isotope is • Define tissue, organ and organ system. • To be able to describe the structure and function of the different organs in the body. • To describe patterns in the groups of the periodic table. • To describe the discovery of the periodic table. • Define static electricity, current and potential difference. • To describe the difference between current and potential difference in series and parallel circuits. • Define and calculate resistance. • Draw magnetic fields and describe how electromagnets work. • Name the different nutrients required for a balanced diet. • Describe the food tests for starch, glucose, protein and fat. • Define drug and the effects they have on the body. • Define element, compound and mixture. • Describe the processes used to separate mixtures. • Calculate speed • Interpret distance time graphs. • Describe different forces and how they act on objects 	<p>Interpret observations to identify patterns and draw a conclusion.</p> <p>Present data using tables and graphs.</p> <p>Understand and use official chemical names</p> <p>Use correct methods in laboratory work.</p> <p>Plan and carry out an investigation, identifying independent, dependent, and control variables.</p> <p>Select correct methods, equipment, and materials for a practical.</p> <p>Present data in a graph</p> <p>Evaluate the results of a practical scientifically</p> <p>Evaluate you practice and say how to improve the investigation in the future.</p>