



KS3 - Year 7 Science – Curriculum overview document

	Key content (knowledge)	Key skills	Assessments	Challenge and enrichment
Autumn half term 1	1. Particles, Substances and Mixtures. 2. Fundamentals in Physics.	Working safely in the laboratory. Identifying key variables. Recording data in tables and making observations. Making conclusions.		See the Key Stage 3 science reading lists.
Autumn half term 2	3. Cells and Organisation. 4. Chemical changes.	Using microscopes. Using prefixes to describe scale. Making predictions Make accurate temperature recordings and calculate means	Test 1 – Particles & Substances and Fundamentals in Physics.	
Spring half term 1	5. Organ systems. 6. Sound and Light.	Plan and conduct a scientific investigation of muscle strength. Process and display data appropriately.	Test 2 – Cells & organisations and chemical changes.	Microbiology in Schools Advisory Committee (MiSAC) annual poster competition.

Spring half term 2	<p>Sound and Light continued.</p> <p>7. Life cycles.</p>	<p>Consider the quality of research.</p> <p>Assess whether observations are within expected values.</p>	Test 3 – Organ systems & sound and light.	
Summer half term 1	<p>Life cycles continued.</p> <p>8. Heating and Cooling.</p>	<p>Use secondary data to describe trends.</p> <p>Plan a valid experiment to compare how matter cools in surroundings of different temperatures.</p>	Test 4 - Life cycles and Heating & Cooling.	
Summer half term 2	<p>9. Forces and Motion.</p> <p>10. Materials and the Earth.</p>	<p>Reading values from more complex graphs.</p> <p>Consider the importance of peer review in the scientific community.</p>	Test 5 – Forces & Motion and Materials & the Earth.	<ul style="list-style-type: none"> • Newstead Science Expo competition. • Royal Society of Biology Nancy Rothwell Prize biological drawing competition.