



The Warwick School



Key Stage 3 Science subject skills and topics

This document outlines the topics and skills that Key Stage 3 students will study through Years 7-9, in Science. For a more detailed breakdown of subject criteria please refer to the KS3 progress grids on the website; <http://www.warwick.surrey.sch.uk/for-parents/key-stage-3-progress-grids/>

Curriculum year	Topics and/or skills studied
Year 7	<ul style="list-style-type: none">• Basic Structure of the atom (chemistry)• Changes of state and particle theory (Physics)• Forces (Physics)• Calculation of speed and acceleration (including learning the formulae) (Physics)• Structure and function of cells including specialised cells (Biology)• Human reproduction (Biology)• Breathing (to include the adaptations of the lungs and diffusion) (Biology)• Aerobic and anaerobic respiration (Biology)• Separating mixtures (Chemistry)• Planning an investigation <p>Revision resources: https://www.bbc.com/education/levels/z4kw2hv and Year 7 Homework booklets</p>
Year 8	<ul style="list-style-type: none">• Electricity and Magnetism (including learning Power and Resistance formulae) (Physics)• The Digestive system including structure and function of Villi (Biology)• Food groups and use of enzymes in digestion (Biology)• Energy transfer and generating electricity (Physics)• Periodic table of elements (Chemistry)• Structure of an atom including electronic configuration (Chemistry)• Basic Chemical reactions (Chemistry)• Light and Sound (Physics)• Plants and photosynthesis (Biology)• Interdependence of populations (Biology)• Analysing data from practical investigations <p>Revision resources: https://www.bbc.com/education/levels/z4kw2hv and Y8 HW booklets</p>
Year 9	<ul style="list-style-type: none">• Structure of an atom (Chemistry)• Acids and alkalis (including word and symbol equations) (Chemistry)• Forces and motion (speed and acceleration formulae) (Physics)• Inheritance (Biology)• Reactivity of metals (including word and symbol equations) (Chemistry)• Unicellular organisms (Biology)• Particle theory (Physics)• Properties of metals (Chemistry)• Evaluating the validity of data• Revision of all key concepts from Year 7 and 8 <p>Revision resources: https://www.bbc.com/education/levels/z4kw2hv and Y9 HW booklets</p>