

Key Stage 3 Curriculum Map 2019 - 2020

Term 2

Year Group: 8		Subject: science	
Focus/Topic	Objectives	Key Skills	Home Learning/Recommended Reading
<ul style="list-style-type: none"> Baseline assessments, curriculum orientation and expectations 			
<ul style="list-style-type: none"> Static electricity Electricity in the home 	<ul style="list-style-type: none"> To determine how static electricity is generated Identify the key parts of a plug Identify key components of the national grid 	<ul style="list-style-type: none"> Recall, working scientifically 	<ul style="list-style-type: none"> Start electricity home learning project. Use KS3 CPG book and BBC Bitesize to do further reading.
<ul style="list-style-type: none"> Circuit symbols Series circuits 	<ul style="list-style-type: none"> To identify and draw circuit symbols To investigate current and voltage in a series circuit 	<ul style="list-style-type: none"> Working scientifically, application and recall 	<ul style="list-style-type: none"> Continue electricity home learning project
<ul style="list-style-type: none"> Parallel circuits Resistance 	<ul style="list-style-type: none"> To investigate current and voltage in a parallel circuit To develop an experiment to measure Ohm's law To identify an LDR and thermistor from a diagram 	<ul style="list-style-type: none"> Recall, application, numeracy skills and working scientifically 	
<ul style="list-style-type: none"> Types of energy stores Efficiency 	<ul style="list-style-type: none"> To investigate energy stores in a variety of everyday items To calculate efficiency of an object 	<ul style="list-style-type: none"> Working scientifically, numeracy skills 	
<ul style="list-style-type: none"> Changes in energy Specific heat capacity 	<ul style="list-style-type: none"> To calculate the kinetic energy and GPE of objects To recall the specific heat capacity equation 	<ul style="list-style-type: none"> Working scientifically, numeracy skills, recall 	

<ul style="list-style-type: none"> Reducing energy loss Renewable and non-renewable energy 	<ul style="list-style-type: none"> To identify how homes are insulated and explain how energy is lost To state and give examples of renewable and non-renewable fuels 	<ul style="list-style-type: none"> Recall and application 	<ul style="list-style-type: none"> Finish electricity home learning project
Mid Term Break			
<ul style="list-style-type: none"> Features of a wave Amplitude, wavelength and frequency 	<ul style="list-style-type: none"> To label a diagram of a transverse and longitudinal wave To interpret wave forms into the type of sound being produced 	<ul style="list-style-type: none"> Recall and application 	<ul style="list-style-type: none"> Start energy home learning project. Use KS3 CPG book and BBC Bitesize to do further reading.
<ul style="list-style-type: none"> Hearing & extreme sounds Light absorption, scattering and reflection 	<ul style="list-style-type: none"> To explain how we make sound and why we can hear it To understand how light reflects, scatters and absorbs 	<ul style="list-style-type: none"> Working scientifically, recall and application 	<ul style="list-style-type: none"> Continue energy home learning project
<ul style="list-style-type: none"> Light refraction The wave equation Sound waves vs light waves 	<ul style="list-style-type: none"> To investigate refraction To use the wave equation and explain similarities and differences between sound and light waves 	<ul style="list-style-type: none"> Working scientifically, application, numeracy skills 	
<ul style="list-style-type: none"> Resultant force Speed, distance & time 	<ul style="list-style-type: none"> To work out resultant force of an object To calculate speed, distance and time 	<ul style="list-style-type: none"> Numeracy skills, recall 	
<ul style="list-style-type: none"> Distance-time graphs Stopping, thinking & breaking distance 	<ul style="list-style-type: none"> Investigate the density of different objects Understand the process of diffusion 	<ul style="list-style-type: none"> Numeracy skills, recall and working scientifically 	
<ul style="list-style-type: none"> Terminal velocity Force = mass x acceleration practical and graph drawing 	<ul style="list-style-type: none"> To describe what is terminal velocity To explain how force, mass and acceleration of moving objects are linked 	<ul style="list-style-type: none"> Working scientifically, recall, numeracy and application 	
<ul style="list-style-type: none"> Revision lessons 	<ul style="list-style-type: none"> Reflecting on learning throughout term 	<ul style="list-style-type: none"> Revisiting all science skills 	<ul style="list-style-type: none"> Finish energy home learning project
<p>UAE Links across the term</p> <p>Electricity: How is electricity generated in the UAE?</p> <p>Energy: What is the main source of energy in the UAE? What type of renewable energy would you find in the UAE?</p> <p>Waves: Create a soundproof room for Virgin radio in the UAE</p> <p>Motion: Create a summary of the energy changes that take place when a car comes to a stop during traffic on Hessa Street.</p>			