KEVICC KS3 Curriculum:	Subject: Science	Key terms and
		vocabulary.
	Topic: Physics	Which words will be explicitly taught & how
Term: Across the year		frequently will
What is the essential knowledge from this unit? What do students need to remember and understand?		understanding be checked? How will
Autumn term – Conservation and Dissipation of energy		assimilation of new vocab be checked?
This unit introduces students to the ideas that there is a fixed amount of energy in the		Keywords:
universe and it is moved between different 'stores' and that useful work can be done		,
when energy is transferred between stores or it will be 'wasted' to the thermal energy		conservation of energy,
store.		dissipated energy,
Key Practicals – Measuring and calculating potential, elastic and kinetic energy.		dissipation of energy,
Spring Term – Energy transfer by heating		efficiency, elastic
Students learn about the transfer of thermal energy between different objects and how		potential energy
much energy it takes to heat up objects.		Hooke's Law, input
		energy, power, spring
Key practical – measuring the specific heat capacity of an object.		constant, useful energy,
Summer term – Energy resources		wasted energy, work.
Students will look at how energy resources are used to meet the energy demands of		black body radiation, infrared radiation,
modern society. There is a detailed look at renewable and non-renewable resources in		specific heat capacity,
terms of their reliability and environmental effects.		thermal conductivity.
Key practicals: Investigating solar energy.		biofuel, carbon-neutral,
What prior learning supports	How does this content link to future	geothermal energy,
understanding of this content?	learning?	national grid nuclear
Conservation and Dissipation of energy - from	Conservation and Dissipation of energy -	fuel, nucleus, reactor
Y8 students have already studied the	students go on to look at look at how energy	core, renewable energy.
relationship between energy and temperature	transfer is altered by the properties of objects	
and power. Energy transfer by heating - In Y8 students	and insulation. Energy transfer by heating – students learn to	Vocabulary will be
were introduced to the difference between	determine the difference between internal	modelled by teachers
heat and temperature and what radiation	energy of particles and the external energy of	and tested in periodic
means.	objects	short tests and scientific
Energy resources – In Y8 students looked at the		literacy is marked
basics of the conservation of energy and the use of resources.	consequences of energy resource use and	during feedback. Scientific
use of resources.	environmental damage are reinforced in biology topics	
Pagding: Where is the unit are students	Writing: Independent writing tasks and how	communication is directly reported to
<b>Reading</b> : Where in the unit are students supported to read complex academic text?	•	parents as part of the
Reading activities from textbook and	Writing skills include concise and accurate	college report.
comprehension activities in the integrated Skills		
Tests that run throughout the year. Scientific	keywords. Scientific literacy includes the ability	
literacy also includes reading graphs and tables		
in order to extract meaning from data.	communicate data. Conclusions to practical work is the most important form of scientific	
	communication.	
Key assessments:		
Biology questions in Autumn , Spring 1, Spring 2 and Summer assessments		
Skills tests 1 to 13 which are set as independent learning tasks.		
How will feedback be received? Students will be given feedback via DIRT sheets after each topic, regular feedback on skills tasks 12 times a year and tests 4 times a year. The students		
topic, regular feedback on skills tasks 12 time will be actively involved in all of these proce		
What will be seen in books? Books will include		
along with feedback via DIRT sheets (see ab		
purple pen relating to them all.		