	Year 9 Phy	sics Curricu	lum – 2022-	23	
	Autumn Term	Spring Term		Summer Term	
	1 2	1	2	1	2
	Energy and Energy Resources	Practical Skills	and Electricity		
National Curriculum	Energy and Energy Resources	Practical Skills	Elect	tricity	
Knowledge & hOnderStandi ng	In this unit, pupils will continue to de elop their understanding o! energy and energy trans!er "egun in years # and \$% &his includes de elopment o! an energy stores model and the processes, such as !orces and electrical currents, through which energy can "e trans!erred% Pupils will learn how to analyse energy changes in gra itational stores, through li!ting and !alling, and elastic potential stores during stretching using the rele ant mathematical) orking scienti*cally skills are an important and integral aspect in physics% Pupils need t%" e a "de 0" to identi!y aria" les and carry out in estigations using their skills to o" tain alid results to	Electricity is a !un li!e which we take e, plains why e er work% Its importan sa!ety aspects o! i methods o! wiring carcuits% Eleptoisits part o! li!e which w granted% In this to " uild upon their ki electricity and ene in estigating how distri" uted sa!ely will ac-uire practic	damental part o! !or granted and it yday appliances it pupils know the it and "asic plugs and making Mit (a'!uthtsaintetintas/(we take !or pic pupils will nowledge o! ergy trans!ers electricity is in the home% &hey cal skills in terms	gra i‰use andi
trupilt•ls p	relationships% &he conser ation o! energy through changes in the gra itational, kinetic, and elastic stores will also "e discussed% Pupils will consider the dissipation o! energy during trans!ers such as those caused "y electrical heating, leading to the idea o! e' ciency during di (erent energy changes and its calculation% &he concept o! e' ciency will then "e applied to the selection o! electrical de ices% &hey will apply this to the use o! !ossil !uels in a power station, and in contrast with why we should use	in estigations% &his unit will continue in the de elopment o! the working scienti*cally aspect o! KS+ National Curriculum as maths and literacy skills%	o! wiring a plug% P " uild circuits with in estigating how a(ect their resista in estigate the rel oltage will aE0 w	upils will also resisti e de ices e, ternal !actors nce% &hey will also lationship " etween vill@ts impoli ii\$È hd	eshysiPi (ItstIII@(Itst

	energy to increase their awareness o! the e(ects o! using energy resources en ironment% &he students will compare all the energy resources in terms o! local en ironmental impacts such as pollution and glo" al en ironment impacts such as acid rain and contri" ution to glo" al warming% &his module is crucial !or students to de elop an understanding o! the climate change crisis and how to de elop e' cient systems !or generating electricity !or the !uture " y incorporating more renewa" le resources% &his will ena" le pupils to understand energy in e eryday li!e%		measurements to ena" le them to apply mathematical e-uations to draw conclusions% &hey will continue their studies on resistance and in estigate non1ohmic conductors%		
2ssessment	End o! unit assessment	Practical assessment o! skills	End o! unit assessment	Practical assessment o! skills	End o! year assessment
) hy this3) hy now3	Pupils ha e already studied energy and energy trans!er in year # and then "uilding on this knowledge in year \$% &his unit !urther applies their e, isting knowledge to e, plain the properties o! su" stances undergoing changes o! state in relation to the energy o! their particles% It is also important that this unit is taught a!ter energy costs and energy trans!er so that pupils can appreciate the laws o! conser ation o! energy and includes de elopment o! an energy stores	&his unit will " uild on skills !rom KS4 and !rom years # and \$ where they ha e already had many opportunities !or de eloping working scienti*cally and practical working skills% &his will also aid in the	Pupils should ha e a secure knowledge o! circuits and "asic circuit "uilding skills which were studied in year # and prior to this KS4% &his is an ideal point to re isit aspects o! the KS+ curriculum, while del ing deeper) orking scienti*cally skills are an important and integral aspect in physics, which is why pupils will continue in their learning% Pupils need to "e a" le to continually identi!y aria" les and carry out in estigations	In this section pupils will re isit ital aspects o! each unit and mathematical skills studied in preparation !or their end o! year assessment% It is important pupils re isit scienti*c concepts in order to aid understanding

model and the processes, such as	enhancement o!	within the topic%	using their skills	and retention o!
lorces and electrical currents,	social skills such	Pupils will also	to o" tain alid	scienti*c
through which energy can "e	as working in	ha e the	results to	concepts to
trans!erred%Pupils ha e already	groups to carry	practical skills	in estigations%	ena"le !orm
"een introduced to work in year \$,	out in estigati e	such as the	&his unit will	loundations to
now they will learn how to measure	processes	a"ility to "e a" le	continue in the	"e made%
the work done "y a lorce acting	re-uired% &his is	to read meters	de elopment o!	
o er a distance and how this	especially	correctly which	the working	
concept can "e used to analyse	important post1	are needed to	scienti*cally	
energy changes in gra itational	co id where	success!ully	aspect o! KS+	
stores, through li!ting and !alling,	opportunities !or	access the	National	
and elastic potential stores during	practical group	practical	Curriculum as	
stretching using the rele ant	work may ha e	elements o! this	maths and	
mathematical relationships% &he	"een less	unit% Pupils will	literacy skills%	
conser ation o! energy through	!re-uent%	also " e reliant on	&his unit will	
changes in the gra itational, kinetic,) orking	understanding o!	" uild on skills	
and elastic stores will also " e	scienti*cally	electrical	Irom KS4 and	
discussed% Pupils will then "e a" le to	skills are an	conductors and	!rom years # and	
consider the dissipation o! energy	imperati e	insulators and	\$ where they	
during translers such as those	aspect o! !uture	apply this to	ha e already had	
caused "y !riction or electrical	learning as they	electrical salety%	some	
heating, leading to the idea o!	are tested on	800d practical	opportunities !or	
e' ciency during di(erent energy	throughout KS5	planning and	de eloping	
changes and its calculation% &he	in the	in estigati e	working	
concept o! e' ciency will then "e	completion o!	skills are	scienti*cally and	
applied to the selection o! electrical	re-uired	important to	practical working	
de ices%In year \$ pupils ha e "een	practical6s !or	de elop "elore	skills% &his will	
introduced to the idea that there	"iology,	progression to	also aid in the	
are renewa" le and non1renewa" le	chemistry and	KS5 and pupils	enhancement o!	
energy resources% Pupils will now	physics and in	will ha e already	social skills such	
e, amine renewa" le energy stores in	KS7 pupils	e, perienced	as working in	
more detail% & his unit will then	practical skills	some o! this	groups to carry	
incorporate aspects o! "oth energy,	will "ecome	while completing	out in estigati e	
work and energy translers to "e	more re*ned%	practical work%	processes	
a" le to e, plain the laws o!	&hese	&hey will "uild	re-uired% &his is	
conser ation ol energy and to	opportunities are	on their	especially	
e, amine energy e' ciency while	essential lor	understanding	important post1	
also using de eloping in estigati e	" uilding skills	!rom this unit to	co id where	

planning and in estigati e skills are important to de elop "elore progress in to KS5%	a%c and d%c in more details and how electric	
	shocks can "e	