CURRICULUM MAP 2021/22 - TOPICS COVERED EACH HALF TERM

KS3 - Year 8

ART	Portrait project.		3D Forms Project.		Animals and Expressionism	
	Observing and recording	g, refining ideas.	Learning from artists, experi	imenting with a range of	Observing and recording, crea	ting a personal response
	Learning to scale and proportion the face		media and techniques, unde	erstanding 3D forms.	based on a theme, artists and their own personal research.	
	correctly. Observational	drawing skills. Pencil	Approaches to sculpture and	l abstraction. Learning to	Learning to draw animals and understand processes to aid	
	and tonal development.		draw 3D objects and designi	ng for sculpture.	this.	
	Learning about personal	symbolism and	Students to work on develop	oing skills in different media	Looking at texture and colour a	ind developing skills in mark
	abstraction through the	work of a selection of	suitable for 3D forms.		making to represent different a	animal textures.
	artists.		Working collaboratively to d	esign and create a 3D form/s	Emotive colour and layering for	r depth. Gathering primary and
	Understanding a variety	_	linked to an artist or an obje	•	secondary research to build on	their tools for creating a final
	through different media		development of design. Crea		outcome.	
	Creating mini outcomes	in the styles of different	media techniques potentially		Designing and understanding c	•
	artists.		papier-mâché, wire, string ar		Refining composition and color	
	Creating a personal resp	_	Problem solving and team w		Creating a final piece featuring	
	of a self-portrait and thi	•	Creating mini outcomes thro	. ,	Building their outcome from pr	
	different ways in which a	_	understand techniques for b	_	that links to their chosen animal and its habitat.	
	viewer insight into who	they are.	Creating a sculpture using m	•	Characterisation and colour symbolism to be developed.	
	Looking at key artists.		potentially including cardboard, papier-mâché, wire,		Looking at key artists.	
			string and found materials.			
			Looking at key artists.			
COMPUTING	Developing for the	Representations from	Mobile app development	Media: Vector graphics	Computing systems	Introduction to python
	web	clay to silicon	Use event driven	Create vector graphics	Explore fundamental	programming
	Use HTML and CSS to	Understand how to	programming to create an	through objects, layering	elements that make up a	Apply the programming
	create webpage	represent numbers	online gaming app	and path manipulation	computer system	constructs of sequence,
	Unada saka sad baassa	and text using binary	Constant and the second	Colort and supply	Hadanstondards a service	selection and iteration in
	Understand how	digits	Create software to allow	Select and create a range	Understand what a computer	Python
	networks can be used	Understand what a	computers to solve	of media including text,	is, and how its constituent	Create programs
	to retrieve and share information	Understand what a computer is in terms	problems	images, sounds, and video	parts function together as a whole	Create programs independently to allow
	IIIIOIIIIatioii	of how data is stored.			whole	computers to solve problems
DANCE &	Rehearsing Scripts:	Choreographing	Combining Production	Devising Theatre	Physical Theatre	Developing Empathy:
	Noughts & Crosses	Dance: Developing	Elements: Grease the	1.Devising	1.Chair Duets	Refugee Boy
DRAMA	1.Theme	dance movement	Musical	2.Improvisation	2.Frantic Assembly	1.Political Theatre
	2.Status	1.Unison	1.Designer	3.Hotseating	3.Round -By- Through	2.Empathy
	3.Tension	2.Canon	2.Technician	4.Forum Theatre	4.Movement Director	3.Contemporary Theatre
	4.Character	3.Refinement	3.Jive	5.Verbatim	5.Hymn Hands	4.Themes
	Development	4.Analyse	4.Production	6.Writing in Role	6.Flocking	5.Multi-roling
	5.Sub-text	5.Formation	5.Rhythm	Students will create	Students will learn about	6.Playwright's intention
	6.Off- text Exploration	6Collaboration	6Genre	bespoke drama	what physical theatre means	

			T						
		is scheme of work	Building on the I		performance responding	= -			
	•	nsolidates the skills	Theatre Scheme	-	to a range of different	this distinct theatre style.	discuss this hard-hitting play		
	' '	irnt in Year 7 and	learning they did		stimuli. Students will le				
	0	roduces further	students will lea		a range of improvisation	=			
		oreographic skills.	production design		skill.	Time scheme in Year 7 but			
		udents will create	sound/lighting d	_		this is a more focused look	, , ,		
		eir own dance	costume/set des	sign,		the style.	their shoes and bring them		
	challenging mo	otifs.	direction, dance	r, actor			to life on stage.		
	contemporary text		and choreograpl	her.	T				
DT	Acrobat Toy Project				Steady hand game	Steady hand game			
	Why is it important to be saf	•			What is a design brief	? How to analyse requirements of	a brief?		
	Why do we need to identify	and understand user	needs?		How to develop a des	ign solution			
	What is ergonomics and antl	hropometrics?			Why is it important to	be safe in the workshop?			
	How can ergonomic/anthrop	oometric data be help	o solve design solut	tions	What is the difference	e between a thermosetting and a t	hermoforming plastic		
	Why are finishes applied to r	materials?			How to analyse produ	icts using ACCESSFM			
	How to research and solve the	heir own design prob	lems		How to shape HIPS us	sing a mould and vacuum former			
	How to develop a design solu	ution			How to fix components onto vero board				
	How to analyse products usi	ng ACCESSFM			How to solder components				
	Why do designers/manufact	urers analyse produc	ts?		How to strip wire				
	How to use tools to safely sh	nape, cut and drill har	ndles and acrobat.	(Chisels,	How to shape copper	wire			
	mortice gauge, surform, spo	ke shave, drill)			How to drill				
	How to make toy make chan	iges in movement/for	rce and direction		Why do designers/manufacturers analyse products?				
	How to evaluate the acrobat	toy?			How to test circuits (f	ault find)			
	Analysing anthropometric da	ata to help generate a	a design solution		Analysing a task				
	Creating designs for acrobat	and handles			Fixing components or	nto vero board & fixing componen	ts into case		
	Making handles and acrobat								
	Research types of finishes, to	ools and toys							
ENGLISH	Coram Boy	Voices Against		Poetry		Short Stories	Twelfth Night		
	Childhood in the 18th Centu	• •	• •	_	<u> </u>	Structural features in texts, short	Issues of identity, gender,		
	mental health in the 18th		and oppression	-	•	story form. Descriptive language	class/social hierarchy; historica		
	century, issues of race and	(race, religion,	-		-	devices, structural features.	context of		
	discrimination, issues of clas	_	sability etc.); the			Analysing the effect of structural	Shakespeare/Elizabethan era.		
	family and romantic	language of op		language de	evices, structural f	features, writing creatively.	Analysing the presentation of		
	relationships; descriptive	(exploitation, o	cultural	features.			character and theme through		
	language devices, structural	imperialism, vi	olence,	Analysing tl	he effect of		language choice, theatrical		
	features.	powerlessness	,		evices, analysing the		form (dramatic irony etc.)		
	Reading comprehension	marginalisatio	n); the language	effect of str	uctural features,		staging decisions, costuming		
	(fiction), analysing the effect	of empowerme	ent; rhetoric	writing ana	lytically, comparing		etc.		
	language devices, analysing	the (ethos/pathos,	/logos);	poems.					
	effect of structural features,	persuasive lang	guage features.						
	writing creatively, writing	Interpretation							
	analisticallis								

viewpoint/perspectives and

analytically.

	socie	tal norms	now and in the						
	past.	Analysing	the effect of						
	persu	uasive lang	guage features						
	and r	hetorical o	devices; writing						
	creat	eatively/persuasively;							
		orming	•						
	creat	ively/pers	uasively.						
FOOD	Further Skills and Nutrients		Multicultural Foo	ds	•		Where does our fo	od come	from?
	Hygiene and food safety		Seasonal foods				What is food prove	nance?	
	Equipment – different types, uses and s	afety	Further food poise	oning			The process of farm	n to fork c	of different products – meat,
	Temperatures and the 4C's	•	Why we cook foo	_			dairy		•
	Eatwell guide and the individual section	S	Cooking methods				Food waste		
	Healthy meals		Using the Hob				Sustainability		
	Macro and micro nutrients		Viscosity of sauce	S			Additives (science)		
	Fats, Protein and Carbohydrates		Gelatinisation	•			Technological developments		
	Vitamins and Minerals					Special diets – vegetarian and vegan			
	What is on a recipe?		Functions of ingre				Allergies		
	Recap washing up	g up What are		Vhat are multi-cultural foods?			Primary processing Secondary processing		
	Sugar in small cakes			Cereals, milling, staple foods around world					
	Sensory evaluation (cheesecake)		Sensory evaluation (curry) How does seasonality effect what we eat? What is viscosity and ways this is carried out in industry – why? Religion and educating themselves with different			Sensory evaluation			
	Developing awareness of food safety an	nd how				Gain an in-depth understanding of how food is grown, reared, gathered and caught. To consider ethical and moral arguments to eating meat. Explore further about food waste and sustainability and how			
	this relates to a food lesson.								
	Exploring healthy eating in more detail	and							
	creating own meals that link in all the b	oxes.							
	Investigating the sugar in small cakes ar	nd how	cultures and tradi	cultures and traditions.			we can improve this in our meals/home. Look at the wider		
	we can result to stay healthy.		Understanding wh	hat causes fo	ood poisoning and the		picture of processing foods.		
	Looking at recipes and how they inform	us,	health risks.						
	choosing wisely and encouraging others	s to do	Adapting recipes	to suit famili	es with variety of differ	rent			
	the same.		diets and nutrition	nal needs.					
GEOGRAPHY	How is Asia being transformed?	Why d	lo people live in haz	zardous	Why is the Middle Ea	ast an i	mportant world	What a	re the physical landscapes in the
	To know the regions and countries in	areas?			region?			UK?	
	Asia		ow the difference be		What is the Middle Ea	ast like	?		es the UK landscape vary?
	To know how deforestation is affecting		ent layers of the ear		How diverse is the ph	nysical	environment of	How do	rivers erode landscapes?
	the mountain biome	To und	derstand the theory	of plate	the Middle East?				ver landforms are there and how
	To know where people live in Asia and	tectonics			Where do people live	in the	Middle East and		ey formed?
	why		ow what happens at	different	why?			-	es a river flood?
	To understand how population	plate b	ooundaries		Why is the Middle Ea	ist a ma	ajor economic		n we reduce the risk of flooding?
	pyramids are used by demographers		derstand the format		region of the world?				rocesses shape the coast?
	To be able to compare population		ent types of volcano		Does oil affect develo	•			indforms are created by the
	pyramids of two countries in Asia		ow the different vol	canic	How does geography			waves?	
		hazaro	hazards		What is it like to be a refugee?		I How is	coastal prosion managed?	

hazards

What is it like to be a refugee?

How is coastal erosion managed?

To know what the conditions are in To understand why people, live near What should we do about refugees? How do glaciers shape the landscape? Contextual knowledge of location. squatter settlements volcanoes How are landforms created by glaciers? To understand how interdependent To know how to reduce the impacts Political geography. What conflicts exist in glaciated areas? Cost/benefit analysis and judgement. India is of volcanic eruptions Contextual knowledge of location. To understand why people are moving To understand the formation and Graphical literacy. Cost/benefit analysis and judgement. from rural to urban areas in China impacts of hotspot volcanoes Graphical literacy. To understand the reasons for China's To understand the causes Evaluation of risk. economic growth earthquakes and tsunamis Application of tier 3 terminology. To be able to evaluate news articles To understand the impacts and Scientific methodologies investigating issues and change in Asia severity of the Haiti earthquake (Geomorphology) To know why Asia is becoming an To know how to reduce the risks of important global economy earthquakes To know the strengths and weaknesses Contextual knowledge of location. Cost/benefit analysis and of India and China as a BRICS economy Contextual knowledge of location (India judgement. and China) Graphical literacy. Cost/benefit analysis and judgement Evaluation of risk. Graphical literacy. Application of tier 3 terminology. Concept of sustainability. Scientific methodologies (Earth Sciences) Slavery - Why did so Industrial Revolution - What **HISTORY** Why did Henry break How powerful was Civil War - Who was most **Empire – How far was** with Rome? Elizabeth? to blame for the English the British empire a many people in Bristol has been the consequences of Puritan/Catholic force for good? want to bring down the Industrial Revolution? Propaganda Civil War, the Monarch or Reformation Trade with the world Industrialisation **Portraits** Parliament? Colston's Statue? Heir Court Civil War Discovery of Land Slave Triangle Urbanisation Divorce Divine right of Kings Roundheads Expansion of Empire. Middle Passage **Factories** Marriage Cavaliers East India trading Pollution Marriage Slave Auction Devine right of Kings. Rebellions/Plots St James Prayer book Company Plantation Child Labour Dissolution of **Babington Plot** Puritanism Inhabitants experience of **Cotton Picking** Applying Knowledge and Domestic/Field Slaves compassion for Child Labour. Monasteries Armada Links to NC – Case Study of rule. Native/indigenous Protestantism/Catholi Parliament changing Nature of Power in Abolition Students use the evidence and Monopoly Britain. people. Commemoration (Pero's analyse conditions to cism Treason/Glastonbury Understanding Debating History/Forming Repatriation Bridge) understand the effects and Memorial (Bristol and Abbey Knowledge/ Applying own opinions and the Mughal Empire lasting impact. **Understanding of Source** Skills Achieved to a higher order concept of Modern Colston Hall) Judgements/Causes thinking and Analysis/ Analysing Modern Slavery (Child Democracy. Analysing and Consequences Evidence. To reach a Arguments different interpretations. Labour/Sexual Judgement of the enquiry judgement. Evidence/Significance/Simila Slavery/Domestic Slavery? Use of Sources and rity and difference. question. Students to understand To make comparisons to the significance of Slavery. interpretation. one other significant society/empire

MATHS PLEASE NOTE: The units covered may not be in this order	Ratio Find equivalent ratios and cancel ratios to their simplest form. Write ratio in the form 1: n. Solve problems where one part of a ratio is known. Share in a given ratio. Solve problems where the difference between parts of a ratio are known. Convert between ratio, fractions and %	Algebraic expressions & brackets Form algebraic expressions. Work with negative numbers in expressions. Expand & simplify single brackets. Factorise expressions into a single bracket	Rounding & estimation Round to a given number of significant figures. Estimate answers to calculations by rounding to 1 significant figure. Understand the limits of accuracy when rounding	Directed number Calculate with negative numbers. Find powers and roots involving negative number	To use sources of evidence to build up a picture about the treatment of slavery. Students to empathise with those effected and currently effected by Modern Slavery Formulae Review function machines from year 7. Substitute values, including negatives & decimals, into expressions & formulae	Coordinates & linear graphs Solve geometric problems involving coordinates. Plot linear graphs. Understand gradient and y-intercept. Find the midpoint of a line segment
	Angles Calculate angles in parallel lines. Calculate angles in special quadrilaterals	Measures of average & spread Choose the most appropriate average & use to compare distributions	Proportion Solve problems involving direct proportion (incl exchange rates, best buys, recipes, rates of change & unit conversion). Use conversion graphs	Metric measures Review converting metric unit	Map scale & drawing Draw & interpret scale diagrams. Interpret maps using scale factors and ratios	Data Collection & representation Understand sampling. Design questionnaires. Identify different types of data. Read & interpret grouped frequency tables. Complete & interpret two-way tables. Draw & interpret scatter graph
	Fractions and % Convert fluently between fractions, decimals and % including fractions greater than 1. Calculate fractions and % of amounts, including fractions	Similarity Identify similar shapes & understand the multiplicative nature of scale facto	Perimeter & area Calculate the area of a trapezium. Calculate the perimeter & area of compound shapes. Name parts of a circle & calculate circumference & area of a circle	Equation & inequalities Recognise equations, inequalities, formulae & identities. Solve more complex linear equations. Form & solve linear equations	Data representation Draw & interpret bar charts for grouped data, multiple & composite bar charts. Choose the most appropriate graph. Understand misleading graphs	Indices Calculate higher powers & roots. Know & use the laws of indices

	Increase and decrease by a fraction or %, including use of					
	decimal multipliers. Express one value as a fraction or % of					
	another. Calculate % change. Find the					
	original value before a % change. Solve					
	problems involving fractions and %					
	Primes, multiples & factors Write numbers as the product of their prime factors	Calculation Solve problems involving adding, subtracting, multiplying & dividing whole numbers & decimals	Transformations Reflect a shape over a given mirror line. Rotate a shape about a given point. Translate a shape by a given vector. Enlarge a shape by a positive or unit fraction scale factor	Standard form Convert between normal numbers & standard form. Order standard form numbers. Calculate with standard form numbers with & without a calculator	Calculate with fractions Solve problems involving the 4 operations with fractions and mixed numbers. Add, subtract, multiply & divide simple algebraic fractions	Sequences Find missing terms in a sequence. Generate terms in a sequence given a rule or algebraic expression. Find the rule for the nth term of a linear sequence
	Probability Review & solve problems involving probability from year 7	Construction Construct triangles, quadrilaterals & other polygons. Construct angle & perpendicular				
MATHS	Skills quiz at the end of	line bisectors each unit.				
MFL					Students who have chosen to do only one language in year 9 and students who have not	
					chosen a language will focus on one language for 3 hours per week during the summer term.	
French	Holidays	Holidays (continued)	Festivals and Celebrations	Free time/media	My Area	My Area

German	School	School a	nd work	Health		Health		Food and Shopping	Food and Shopping
Mandarin	School	School		Food and Drink		Food and Drink		Holidays	Holidays
Spanish	House and Home	Town		Daily Routine		Fashion		Festivals and culture / TV and Cinema	Culture, geography and politics of Central America – El Salvador
MUSIC	West African Djembe Drumming Ensemble PERFORMANCE of an African inspired drumming COMPOSITION. APPRAISING. West African instrumentation, Develop understanding of musical elements. Identify their use in music. Singing traditional West African song chordal harmony	theme us keyboard COMPOS variation APPRAIS and Varia understa musical of Identify to music. Arranger song usin	MANCE of a sing ds. SITION of s ING Theme ation. Develop anding of elements. Their use in the use in their use in their use in their use in the use in the use in their use in their use in the	Folk Music of the Isles PERFORMANCE of traditional Celtic of music. APPRAIS traditional pieces time signatures a instrumentation. understanding of elements. Identifin music. Singing folk song chordal harmony	of a folk piece SING including nd Develop musical y their use	History of Music PERFORMANCE Keyb skill development performance of a we known classical piece music. APPRAISING: Research project to include development instruments and composers in the Baroque, Classical, Romantic Era's. Deve understanding of mu elements. Identify th use in music.	e of t of elop sical	Pop Song Performance Ensemble PERFORMANCE. Development of instrumental and performance skills through a performance of a pop song. Development from Y7: Extended/larger palette of Chords & Harmony, 4+ Chords in G major/E minor LISTENING/APPRAISING Understanding instrumentation, structure, lyrics and context. Develop understanding of musical elements. Identify their use in music. Singing pop song chorus chordal harmony	Pop Song Composition Paired COMPOSING Pop songs. Chords, Harmony, Structure/Form, Texture, Melody, Instrumentation. Development from Y7: Extended/larger palette of Chords & Harmony, 4+ Chords in G major/E minor Pentatonic Riff and root note bass with passing notes. Midi input and sequencing. Using microphones, it captures audio of melody lines and or rapping LISTENING/APPRAISING Understanding instrumentation, structure, lyrics and context of pop songs. Develop understanding of musical elements. Identify their use in music.
PE	Invasion Technical Knowledge Developing passing, mo with/without ball, attack defending skills Game Knowledge Developing knowledge to attacking and defens strategies in small sided and knowledge and understanding of basic Students will also devel Social, Emotional Physic	of rules ive digames tactics.	and attacking a principles on a and knowledge understanding Students will a	rehand, ves and volley dge owledge of rules and defensive half-court game e and of basic tactics.	Technical Management of the Developing understand Exercise/Triangle Canad general Wellbeing. Students was Social, Emo	g a greater ding of raining methods to ardiovascular fitness al and Health and vill also develop otional Physical and o skills throughout the	Tech Deve fieldi (Thro Gam Deve and o sideo Stud Socia Lead	ting and Fielding sinical Knowledge eloping bowling, batting, ing and wicketkeeping owing and Catching) skills. The Knowledge eloping Knowledge of rules developing tactics in small d games. The ents will also develop and, Emotional Physical and dership skills throughout the ficulum	Athletics Technical Knowledge Developing a Range of Running, Jumping and Throwing Techniques. Performance Knowledge Developing knowledge of rules and tactics/strategies for individual events. Students will also develop Social, Emotional Physical and Leadership skills throughout the curriculum

	Leadership skills through		ship skills throughout the						
	curriculum	curricu	lum						
PSHE	Changing Adolescent Body Intelligent Consumer Modern Banking Financial awareness		Challenging wrong strategies for safe challenging stered prejudice, bigotry, and discrimination they witness or exit in their daily live. The right way (unhealthy coping	otyping, , bullying, n when sperience					
			strategies).					Self-defence	
Health Day			Sex & Relationship	os				Self-Esteem SunSmart	
	Drugs, Alcohol and County Lines							Mental Health First Aid training	
Specialist									
team									
RE	Respect: Anti-prejudice F	RE	Judaism		Historical Jesus		Islam		
	#notatourschool		Coming of Age and Herita	age	What does the cr	oss mean to	Special	Places and Pilgrimage	
	Prejudice and discriminat	ion	The complexity of Judaisr	n as a religion,	Christians?		Islamic	traditions, festivals and	
	What is morality, why sho	ould we do the	culture and ethnicity		Jesus as a historical figure, supported by secular facts and evidence			celebrations	
	right thing?		Existence after death, full	filment of the			1	portance of Mecca within the	
	Racism and its history, wi	th links to key	Mitzvot		Who was Jesus and what did he look			tradition	
	humanist figures		The Messiah, as a descen		like? Misconceptions on race and			n and dress: addressing	
	Homophobia and its histo	ory, with links to	House of David and a brir	- '	identity	on? How would this		ceptions	
	key humanist figures Ableism and its history, w	ith links to key	God and the covenant, re and celebrations derived	•		e to other prophets?		ersity of Muslims and the way llow their faith	
	humanist figures	itti iiiks to key	Jews as the chosen peopl		-	ssiah, how did (or how		regarding Islamic teachings and	
	Sexism and its history, with	th links to kev	from the Torah and differ	•	didn't) Jesus fulfil	•		Evaluation of how the origins of	
	humanist figures	,	interpretations thereof		Miracles of Jesus			Pre-Islamic Arabia shaped the	
	Literacy regarding key wo	ords	Literacy regarding Jewish	teachings and	Parables: The Goo	•		and its practices	
	surrounding prejudice and	d discrimination	beliefs	-	Literacy regarding	g Christian teachings	Ability 1	to evaluate why Islam thrived in	
	Assessing where stereoty		Assessing different ways	of life and	and beliefs surrou	_	Arabia		
	from in order to confront	one's own	traditions		Assessing differer			to critically evaluate prerequisites	
	prejudices		Ability to evaluate tradition			and separating fact	_	ion and whether these have any	
	Ability to evaluate differe		own life and analyse their	r importance	from belief		implica	tions on religious identity	
	in order to address injusti	ices							

SCIENCE (please note - different classes will do the modules in a different order)	Ability to exercise compempathy particularly in realise one's own ability world. Cells and tissues Magnification Cell division and mitosis Organisation of specialised cells into tissues Structure of the skeleton Muscles Importance of bacteria in the human digestive system Spread of communicable disease and preventative measures	social issues and "W	Variation and inheritance Monohybrid inheritance Simple genetics Punnett squares Genetic diseases	ne's Ability to analyse h	Atoms and elemen Electron shells/ ene levels Construction of diag showing the electro arrangement of firs elements Electron configurat Definition and exan	(and/or traditio credend traditio ts ergy grams on t 20 ion ion ion ion ion release of the state	lenge one's own perceptions judgements) of different ns considering, and giving te to, perspectives from those ns themselves Chemical Reactions Reactivity series of metals Construction of symbol equations- use of symbols and chemical formulae Factors affecting reaction rate: Temperature, Pressure, Concentration, Particle Size Catalysts Combustion reactions Fire Triangle Reactions of acids with: metals, metal oxides, metal carbonates, alkalis. Neutralisation reactions Use of indicators to demonstrate everyday examples
	Particles and states of matter Energy in change of state Cooling curve of Octadecanoic Acid Solubility Definition of solute, solvent, solution Identification of solutions- clear	The Earth: Rocks and atmosphere The Rock Cycle. Identification of different processes: erosion, weathering, transportation, deposition, sedimentation, compaction, cementation etc. Igneous rocks Effect of cooling rate, temperature on cryst size.	Weight vs mass. Calculation of weights with different values of g. Atmospheric pressure as the force of air molecules Pressure in liquids Up thrust/ buoyancy-floating and sinking Calculating pressure using force/area Acceleration as rate of change of speed.	Food webs Flow of energy through a food chain/ web Waves and energy Superposition. Constructive and destructive interference Demonstration of standing wave with Ruban's tube. Human hearing rang. Definition and uses of infrasound. Definition and uses of ultrasound. Structure of the ear Function of each part	Space Exploring the solar ISS, probes, rovers Is there life on other planets	-	Electricity and magnetism Static electricity Voltage (potential difference) Current as a flow of charge Models of current flow in a circuit Construction and evaluation of series and parallel circuits. Electromagnets Induced Magnetism

Fractional distillation	Velocity-time graphs	Description of sound	
of crude oil		conduction through inner	
		ear	
		Hearing loss	
		Sound insulation	
		Law of reflection	
		Refraction	
		Lenses	
		Pinhole cameras	
		Renewable energy	
		resources	
		Sankey diagrams	
		Energy efficiency- use of	
		"Energy saving"	
		appliances	
		Isotopes as a store of	
		nuclear energy.	
		Insulation as an "energy	
		saving" measure	