Year 8 – HT4



Knowledge Organisers

Name:

Team:



Mathematics

Our students will:

- become fluent in the fundamentals of mathematics, including through varied and frequent practice with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately.
- reason mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language
- can solve problems by applying their mathematics to a variety of routine and non- routine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions.

Newsome Academy Everyone Exceptional Everyone X Percentages

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To use fractions and percentages To use and convert standard form



Newsome Academy Veryone Exceptional Everyday Year 8: Spring Term – Standard Form

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What do I need to be able Keywor to do? Standard form By the end of this unit you should be able to: Standard form and as ordinary numbers in standard form and as ordinary numbers • Write numbers in standard form Base: The power: The ordinary numbers • Order numbers in standard form Exponent: • Odd/ Subtract with standard form Holices: The power: The standard form • Multiply/ Divide with standard form Negative: C	ex) Form: A system of writing very big or very small numbers an operation is commutative if changing the order does not change the result. nber that gets multiplied by a power ponent — or the number that tells you how many times to use the number in multiplication to power — or the number that tells you how many times to use the number in multiplication ower or the exponent. alue below zero.	Positive powers of 10 Iblian - 1 000 000 000 10x 10x 10x 10 x 10 x 10 x 10 x 10 x 10	Standard form with rumbers > 1 Ory number between 1 and A x 10 n Ory integer less than 10 A x 10 n Ory integer Example 3.2 x 10 ⁴ (0.8) x 10 ⁴ 1 - 3.2 x 10 x 10 x 10 1 - 3.2 x 10 x 10 x 10 3.2 x 10 ⁴ (0.8) x 10 ⁴ 1 - 3.2 x 10 x 10 x 10 1 - 3.2 x 10 x 10 x 10 x 10 1 - 3.2 x 10 x 10 x 10 x 10 1 - 3.2 x 10 x 10 x 10 x 10 1 - 3.2 x 10 x 10 x 10 x 10 1 - 3.2 x 10 x 10 x 10 x 10 1 - 3.2 x 10 x 10 x 10 x 10 1 - 3.2 x 10 x 10 x 10 x 10 1 - 3.2 x 10 x 10 x 10 x 10 1 - 3.2 x 10 x 10 x 10 x 10 1 - 3.2 x 10 x 10 x 10 x 10 1 - 3.2 x 10 x 10 x 10 x 10 1 - 3.2 x 10 x 10 x 10 x 10 1 - 3.2 x 10 x 10 x 10 x 10 1 - 3.2 x 10 x 10 x 10 x 10 x 10 1 - 3.2 x 10 x 10 x 10 x 10 x 10 1 - 3.2 x 10 x 10 x 10 x 10 x 10 x 10 1 - 3.2 x 10 x 1	$\begin{array}{ c c c c c c c c } \hline \hline Negative powers of IO \\ \hline Negative powers of IO \\ \hline Negative powers of IO \\ \hline Negative power 0 \\ \hline Negative power 0 \\ \hline Negative powers do not \\ \hline Negative powers do not \\ \hline Negative solutions \\ \hline Negat$
Career Focus - Where could this take	Retrieval Practice The table shows the number of pets owned by 25 people. Image: state of the state o	0 = 0 $0 = 0$ $0 = 0$ 0 $0 = 0$ 0 0 0 0 0 0 0 0 0	I 6.4 x 10 ⁻² 2.4 x 10 ² 3.3 x 10 ⁰ I 0.064 240 I I 0.0000 600000 600000 I 0.0000 600000 - 1400000 I 0.0000 100000 - 1400000 I 0.00000 1000000 1000000 I 0.00000000000 10000000 10000000 I 0.0000000000000000000 1000000000000000000000000000000000000	L 3 x 10 ⁻¹ L 3 x 10 ⁻¹ L 3 x 10 ⁻¹ L 3 x 10 ⁻¹ L 4 x 10 ⁵ L 5 x 10 ⁵ L 5 x 10 ⁵ L 5 x 10 ⁵ L 6 x 10 ⁵ + 8 x 10 ⁵ L 7 x Convert into ordinary numbers first and back to standard from at the end C x 10 ⁵ + 8 x 10 ⁵ This is not the final densiver I have a standard from at the end C x 10 ⁵ + 8 x 10 ⁵ L 4 x 10 ³ L
Challenge Activities She cuts out a 4 cm x 4 cm square from the centre. The area of the blue region is 65 cm ² . What is the length of the large blue square?	Topic Links This topic links to: • Multiplying and dividing by powers of ten Additional Resources Corbettmαths To further practise and develop your knowledge see: • Vide os: 99,100, 301 - 303	Multiplication and division 1.5×10^5 0.3×10^3 $(1.5) \times 10^5$ $(1.5) \times 10^5$ $(1.5) \times 10^5$ $(1.5) \times 10^5$ $(1.5) \times 10^5 + (0.3) \times 10^3$ $(1.5) \times 10^5 + (0.3) \times 10^3$ $(1.5) \times 10^5 + (0.3) \times 10^3$ $(1.5) \times 10^5 - 10^3$ $(1.5) \times 10^2$ </td <td>disson you can look at the he powers of 10 as two a calculations traction laws for indices – for the calculations To put into standard form. Alternation form A $n \div a^{n} - a^{n-n}$</td> <td>$\begin{bmatrix} 14 \times 10^5 \times 39 \times 10^3 \\ \text{(let x 10^5 \times 39 \times 10^3)} \end{bmatrix}$ Use a calculator to work out this guestion to a suitable degree of accuracy Then press 5 (for the power) This gives you the solution This gives you the solution $\begin{bmatrix} \text{Cex calculator for witeo tutorial} \\ \text{Cex calculator for witeo tutorial} \\ \text{Cex calculator for witeo tutorial} \\ \text{Cex calculator for sciences} \\ \text{then press 7 for sci mode} \\ \text{acy so in most cases press 2} \\ \end{bmatrix}$</td>	disson you can look at the he powers of 10 as two a calculations traction laws for indices – for the calculations To put into standard form . Alternation form A $n \div a^{n} - a^{n-n}$	$\begin{bmatrix} 14 \times 10^5 \times 39 \times 10^3 \\ \text{(let x 10^5 \times 39 \times 10^3)} \end{bmatrix}$ Use a calculator to work out this guestion to a suitable degree of accuracy Then press 5 (for the power) This gives you the solution This gives you the solution $\begin{bmatrix} \text{Cex calculator for witeo tutorial} \\ \text{Cex calculator for witeo tutorial} \\ \text{Cex calculator for witeo tutorial} \\ \text{Cex calculator for sciences} \\ \text{then press 7 for sci mode} \\ \text{acy so in most cases press 2} \\ \end{bmatrix}$

Newsome Academy Veryone Exceptional Everyday Year 8: Spring Term – Number Sense

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What do I need to be able to do? By the end of this unit you should be able to: Round numbers to powers of 10 and 1 sf Round numbers to any dp Estimate solutions Calculate using order of one entires	Keywords Significant: Place value o Round: Making a number Decimal: Place holders al Overestimate: Rounding (Underestimate: Rounding Metric: Q system of mea	f importance simpler but keeping its value close to what it was. Iter the decimal point. up — gives a solution higher than the actual value gown — gives a solution lower than the actual value.	Round to powers of 10 and 1 sig figure If the number is halfway between we 'round up' 370 to 1 significant figure is 400 5495 to the nearest 1000 5475 to the nearest 100 5475 to the nearest 100 37 to 1 significant figure is 40 5000 1 6000 5470 1 6480 8 1 6000 5400 1 6480 9 1 6480 0.37 to 1 significant figure is 04 0.00037 to 1 significant figure is 04 000037 to 1 significant figure is 00004 Round to the first non-zero number 1 1
Calculate with money, units of measurement and time	Balance: The amount of Deposit: Putting money in	money in a bank account nto a bank account	Kound to decimal places 2.46 92 Faces on the numbers "To ldp" - to one number after the decimal after the decimal point Image: the decimal point Image: the decimal point "To ldp" - to two numbers after the decimal after the decimal point Image: the decimal point Image: the decimal point "To ldp" - to two numbers after the decimal Image: the decimal point Image: the decimal point Image: the decimal point 2.46 92 the ldp] - to two numbers after the decimal Image: the decimal point Image: the decimal point Image: the decimal point 2.46 92 the ldp] - to two numbers after the decimal Image: the decimal point Image: the decimal point Image: the decimal point 2.46 92 the ldp] - to two numbers after the decimal Image: the decimal point Image: the decimal point Image: the decimal point 2.46 92 the ldp] - to two numbers after the decimal Image: the decimal point Image: the decimal point Image: the decimal point 2.46 92 the ldp] - to two numbers after the decimal Image: the decimal point Image: the decimal point Image: the decimal point Image: the decimal point Image: the decimal point Image: the decimal point Image: the decimal point Image: the decimal point Image: the deci
Main Snack Drink I am a financial analyst. I use my knowledge of A café meal deal offers the following options. I use my knowledge of Or Or fractions and percentages to Or understand and explain Continue this list of all the possible combinations Or how money moves and grows. Continue, Fruit, Juice, Continue this list of all the possible combinations		Retrieval Practice A café meal deal offers the following options.	$24 \qquad t \qquad 25 \qquad coser to 25 \qquad let under s \\ coser to 25 \qquad let under s \\ coser to 25 \qquad let u add so n \\ 2.46 92 to 12dp) - ls this obser to 246 or 247 \qquad 2.46 92 This shows the number is closer to 246 or 247 \qquad 2.46 92 This shows the number is closer to 246 or 247 \qquad 1.46 92 This shows the number is closer to 246 or 247 \qquad 1.46 92 This shows the number is closer to 246 or 247 \qquad 1.46 92 This shows the number is closer to 246 or 247 \qquad 1.46 92 This shows the number is closer to 246 92 This shows the number is closer to 246 92 This shows the number is closer to 246 92 This shows the number is closer to 246 92 This shows the number is closer to 246 92 This shows the number is closer to 246 92 This shows the number is closer to 246 92 This shows the number is closer to 246 92 1.5$
		Main Sandwich or Pasta Pot Snack Fruit or Crisps Drink Juice or Water Continue this list of all the possible combinations of meal deals: Sandwich, Fruit, Juice,	Order of operations Calculations with money Brackets Operations in brackets are calculated first Other Operations Operations Multiplication/ Division Debit You have £0 or more in an account Money calculations are to 2 dp Operations are to 2 dp Order of operations Operations <t< td=""></t<>
Challer	nge Activi	Topic Links	$\frac{ \text{Units are important: Useful Conversions}}{mm} \xrightarrow{\text{x10}} \xrightarrow{\text{x100}} \text{x100} \xrightarrow{\text{x1000}} \text{x100} \xrightarrow{\text{x1000}} \text{x1000} \xrightarrow{\text{x100}} \text{x100} \xrightarrow{\text{x100}} \xrightarrow{\text{x100}} \text{x1000} \xrightarrow{\text{x100}} \text{x100} \xrightarrow{\text{x100}} \xrightarrow{\text{x100}} \xrightarrow{\text{x100}} \text{x100} \xrightarrow{\text{x100}} \xrightarrow{\text{x10}} \text$
One fifth of a number is 12 What is a half of the number?		This topic links to: bounds and error intervals Additional Resources Corbettmαths	$\frac{\text{Metric measures of length}}{\text{his} - 1000 \text{ x meter}} \approx \text{Cerl}_1 - \frac{1}{100} \text{ x meter}$ $\frac{\text{Mi} - \frac{1}{1000} \text{ x meter}}{\text{Mi} - \frac{1}{1000} \text{ x meter}} \approx \text{Cerl}_1 - \frac{1}{100} \text{ x meter}$ $\frac{\text{Mi} - \frac{1}{1000} \text{ x meter}}{\text{Mi} - \frac{1}{1000} \text{ x meter}} \approx \text{Cerl}_1 - \frac{1}{100} \text{ x meter}$ $\frac{\text{Mi} - \frac{1}{1000} \text{ x meter}}{\text{Mi} - \frac{1}{1000} \text{ x meter}} \approx \text{Cerl}_1 - \frac{1}{100} \text{ x meter}$ $\frac{\text{Mi} - \frac{1}{1000} \text{ x meter}}{\text{Mi} - \frac{1}{1000} \text{ x meter}} = \frac{1}{1000} \text{ x meter}$ $\frac{\text{Mi} - \frac{1}{1000} \text{ x meter}}{\text{Mi} - \frac{1}{1000} \text{ x meter}} = \frac{1}{1000} \text{ x meter}$ $\frac{\text{Mi} - \frac{1}{1000} \text{ x meter}}{\text{x meter}} = \frac{1}{1000} \text{ x meter}$ $\frac{\text{Mi} - \frac{1}{1000} \text{ x meter}}{\text{x meter}} = \frac{1}{1000} \text{ x meter}$ $\frac{\text{Mi} - \frac{1}{1000} \text{ x meter}}{\text{x meter}} = \frac{1}{1000} \text{ x meter}} = \frac{1}{1000} \text{ x meter}$ $\frac{\text{Mi} - \frac{1}{1000} \text{ x meter}}{\text{x meter}} = \frac{1}{1000} \text{ x meter}} = \frac{1}{1000} \text{ x meter}} = \frac{1}{1000} \text{ x meter}$ $\frac{1}{1000} \text{ x meter}} = \frac{1}{1000} $
		To further practise and develop your knowledge see: • Vide os: 211, 215, 276 - 280	Ondogre Clock Data Clock (24 - hour times) Weight - g kg t Capacity (volume of liquid) - ml, L Capacity (volume of liquid) - ml, L Uter on (moning) and pm (afternoon) • Use an (moning) and pm (afternoon) • O-11 (moning hours) • Orig use hour times up to 12 • Uter on (mes up to 12



Maths: Quick Reference: Number Skills



X	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144
	P		E		N	1	1	D		A		S
Pare	nthese	es E	xpone	nts	Mult	iply	Di	vide		Add	S	ubtra
(()		e	2	(×	()	(•	÷)	((+)		(-)
					(which	Left to lever c	Right omes f	irst)	- (w	Left hicheve	to Righ r come	t s first)

 $0.0000053 = 5.3 \times 10^{-6}$

Move decimal point 6 places right, exponent goes down by 6





Maths: Quick Reference: Geometry & Measures

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Maths: Quick Reference: Algebra Skills





Maths: Quick Reference: Statistics





Length (<i>x</i> cm)	Frequency	Midpoint	Midpoint × frequency			
$0 < x \le 10$	4	× 5	= 20			
$10 < x \le 20$	10	× 15	= 150			
$20 < x \le 30$	7	× 25	= 175			
$30 < x \le 40$	4	× 35	= 140			
	25		485			
estimated mean = $485 \div 25 = 19.4$ cm						

estimated mean = 485 ÷ 25 = 19.4 cm



As percentages: 0%

20%

40%

50%

60%

							Sample S	pace Di	agrams	3				
]	Simple Probabilty = $\frac{F}{2}$	e Proba Cavorable o Total our	bility outcomes tcomes	1			+	·	•	Die	e 1		
		Example:	Number	- f f	blaa			•	2	3	4	5	6	7
6	R	$P(red) = \frac{7}{12} \leqslant$	 Total nun 	nber of mar	oles Irbles (sam	ple space)			3	4	5	6	7	8
		$P(hlue) = \frac{5^4}{5}$	Number	of blue ma	rbles			<mark>ی</mark> و	4	5	6	7	8	9
	_	12	Total nur	nber of ma	arbles (sam	ple space)		Die	5	6	7	8	9	10
		Verv		Even		Verv		?	6	7	8	9	10	11
In words: As decimal	Impossible	unlikely 0,2	Unlikely	chances	Likely	likely 0,8	Certain 	000	7	8	9	10	11	12
fractions: As fractions:	0	$\frac{1}{5}$	<u>2</u> 5	$\frac{1}{2}$	$\frac{3}{5}$	$\frac{4}{5}$	1	3			Total	Score		

80%

100%





Our students will:

- > read easily, fluently and with good understanding
- > develop the habit of reading widely and often, for both pleasure and information
- acquire a wide vocabulary, an understanding of grammar and knowledge of linguistic conventions for reading, writing and spoken language
- > appreciate our rich and varied literary heritage
- > write clearly, accurately and coherently, adapting their language and style in and for a
- range of contexts, purposes and audiences
- use discussion in order to learn; they should be able to elaborate and explain clearly their understanding and ideas
- are competent in the arts of speaking and listening, making formal presentations, demonstrating to others and participating in debate.

Newsom	y Year 9 Romeo and Ju	 The aims of the sequence of learning are to ensure that Recognise different genres and conventions of writing Reference the text and use evidence Applyse writer's methods of language and form 	all students: g	 Demonstrate understar Be able to craft both cro the audience Use sentences for effect 	nding of 'Genre, Audience and Purpose' eative and persuasive writing to engage +		
Keyword	Definition	Key Concepts – Romeo and Juliet					
Fragedy	A play dealing with tragic events and having an unhappy ending.	Shakespeare's Time – Shakespeare wrote his plays at the time of two monarchs: <u>Queen Elizabeth I</u> and James I. <i>Romeo</i>	Themes – A then Love – In Romeo	ne is an idea or message that runs and Juliet, love is an extremely ov	throughout a text. erpowering force that supersedes all other		
Antithesis	direct opposite of something else	career (the bulk of his tragedies were written in the 17 th	values, emotions forces of their er	, and loyalties. Through their love, itire social world. Romeo returns to	Romeo and Juliet conspire to go against the o visit Juliet at points, even though he is well		
Oxymoron	figure of speech - contradictory terms (cold fire, pretty ugly)	now. Shakespeare borrowed heavily from two texts: The Tragical History of Romeo and Juliet (1562) and Palace of Pleasure (1567)	aware of the thre Rosaline).	eat of death. At times, love is prese	ented as fickle (Mercutio's speeches, Romeo +		
magery	visually descriptive language	several parts of <i>Romeo and Juliet</i> . This is reflective of a	Individual vs Soc at the time. For e	iety – Romeo and Juliet are forced example, rules of the patriarchal fa	to undermine the oppressive rules of society mily force Juliet to be subservient to her		
Sonnet	a poem of 14 lines using a formal rhyme scheme	(predominantly catholic or protestant). Several characters demonstrate their <u>commitment to the church</u> , such as Romeo and Juliet who choose to marry rather than fornicate, and	parents, rules of Romeo into conf	religion mean that they must marr lict with Tybalt.	y in haste, and rules of masculinity force		
ambic Pentameter	a line of verse with 5 metrical feet -one stressed, one unstressed syllable.	the Capulets, who are quick to contemplate that Juliet is in a better place (heaven) after she is found 'dead.' Astrology the Supernatural – At the time of	Violence – Extreme violence takes place sporadically throughout the play. The feud between the two families is so bitter that the mere sight of each other can be the cause of a fight to the death. Unchecked violence is personified through the character of Tybalt. The violence culminates in Act				
Rhyming Couplet	A pair of lines that are successive ad rhyme.	Shakespeare, the belief in both astronomy and the supernatural was far more preeminent than in society today. The reference to 'ttan-gravid layar demonstrator the large	 3 Scene 1, in which both Mercutio and Tybalt are murdered. Fate – In the first address to the audience, the Chorus states that Romeo and Juliet are 'star-cross'd' lovers, meaning that fate had intended for their paths to cross, and that fate controls their actions. A series of unfortunate accidents towards the end of the play thwart Friar Laurence's plan and eventually manifest in both Romeo and Juliet committing suicide, thus adding to the sense of fate. 				
Protagonist	Leading character	role of horoscopes and planet positions in being used to <u>predict fate</u> . Also, Romeo and Juliet make reference to the fact that they feel					
Antagonist	Character who actively opposes or is hostile to someone.	they are being guided by a supernatural force (e.g. 'fortune's fool). Elizabethan England and Italy – Shakespeare frequently engaged with Italy in his plays, leading many to believe that he					
Foreshadowing	A warning or indication of a future event	travelled there between the late 1580s and early 1590s.	Dramatic Davice	s in Domoo and Iuliat	Fastures of a Trazady in Domas and Iuliat		
Simile	Comparison using 'like' or 'as'	would have had a keen interest in; it was already an advanced and beautiful place for travel. Shakespeare's depictions of	Dramatic Irony	Mercutio and Benvolio think	Tragic Hero - A main character cursed by fate		
Metaphor	A word/phrase is applied to an object which isn't literal	many areas of Italian life at the time are deemed largely accurate. Patriarchal Society –Society throughout the Middle Age O and at Shakespeare's time was <u>patriarchal</u> – women O		Romeo is still pining over Rosaline, but the audience knows he has moved on to Juliet, A2 S1	and possessed of a tragic flaw (Romeo, and to an extent Juliet).		
Soliloquy	The act of speaking one's thoughts aloud on stage	were considered inferior to men. This was also the case in much of Europe, including Italy. Women belonged to their fathers (or brothers if their fathers had died) and then their	Soliloquy	Juliet's opening speech in A3 S2 in which she pours her heart out over her love for Romeo.	Hamartia - The fatal character flaw of the tragic hero (his passion and impulsiveness).		
Dramatic Irony	When the audience are aware of more than the actors/characters	were not permitted to own land or enter most professions. They were instead expected to bear children, be gentle and womanly.	Aside	Juliet secretly hopes for the 'villain' Romeo: Villain and he be many miles	Catharsis - The release of the audience's emotions through empathy with the characters.		
Unrequited love	love that is not mutual or reciprocated; one person loves someone who does not love them back	advanced in Shakespeare's age as they are today – there were numerous ailments and diseases that were not yet understood. This makes it much more believable for both the Capulets and Romeo that Juliet could have died so suddenly and so young. The high death count in the play would	Foreshadowing	asunder. God pardon him! A3 S5 Friar Laurence: These violent delights have violent ends, And in their triumph die, like fire and nowder, A2 S5	Internal Conflict - The struggle the hero engages in with his/her fatal flaw.		
		seem slightly more common in those days		jire ana powaer. Az 50			

Newsome Academy Year 9 Romeo and Juliet

The aims of the sequence of learning are to ensure that all students:

- Recognise different genres and conventions of writing
- Reference the text and use evidence
- Analyse writer's methods of language and form

- Demonstrate understanding of 'Genre, Audience and Purpose'
- Be able to craft both creative and persuasive writing to engage the audience
- Use sentences for effect

Retrieval Practice

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Answers	
Rosaline	
At first sight	
The next day	
Friar Lawrence	Challenge Activ
Tybalt kills Mercutio	Re-write Act 2, s Imagine how the Re-write this sce
Arthur Brooke's The Tragical History of Romeus and Juliet (1562).	Create a charac
A belief system which underpinned Elizabethan society and taught that there was a hierarchical	
ordering of all creation	Topic Links
Love that is unrequited.	This topic links to:
Courtly love incorporates ideas such as love at first sight and dying for one's true love. It was a Medieval ideal or, at least, an ideal which was imposed in the Middle Ages	Geography Drama - per
	AnswersRosalineAt first sightAt first sightThe next dayFriar LawrenceTybalt kills MercutioArthur Brooke's The Tragical History of Romeus and Juliet (1562).A belief system which underpinned Elizabethan society and taught that there was a hierarchical ordering of all creationLove that is unrequited.Courtly love incorporates ideas such as love at first sight and dying for one's true love. It was a Medieval ideal or, at least, an ideal which was imposed in the Middle Ages





I am a playwright. I write stories that are meant to be performed on a stage by actors. I create the words that the actors say and the actions they take, kind of like a director for a movie. It's like writing a book, but instead of people reading it, it's brought to life by actors performing it in front of an audience.

hallenge Activities

Re-write Act 2, Scene 3:

magine how the conversation sound today? Re-write this scene using modern language

History - Jacobean Era, Tragedy

Drama - performance of a play, audience

Geography - Italy, Verona

Create a character map:



Additional Resources

To further practise and develop your knowledge see: Quick summary

https://www.voutube.com/watch?v=si0LpiU-dVQ

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Top Quotes

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https://www.youtube.com/watch?v=0IPUtwhKTJE

BBC Bitesize https://www.bbc.co.uk/bitesize/topics/z8642p3





Our students will:

- develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics
- develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them
- are equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future.

Newsome Academy Everyone Exceptional Everyday Year 8 Acids and Alkalis

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The aims of the sequence of learning are to ensure that all students:

- Identify acids and alkalis using the pH scale
- Explain how neutralisation is used to make salts

Keyword	Definition	Key Concepts					
Physical changes	When a substance changes state. It does not make any new chemical substances forming.	Acids and Alkalis					
Che mi cal changes	When a chemical reaction occurs leading to the formation of new elements or compounds.	ACID BASE	Acids are a group of chemical Hydrochloric acid and Sulphu	ls that contain a H= ion examples of which are vinegar, ric acid. Citric acid is found in citrus fruit and is an			
Acid	A sour tasting substance with a pH 1-6.		Alkalis are a group of chemicals that contain the OH= ion and have a soapy feel. An				
Alkali	A soapy substance with a pH 8-14 (liquid)	Acetic acid (vinegar) Citric acid (iemon) Sodium Ammonia bicarbonste (baking soda) (ammonia water)	example is Sodium Hydroxide. alkalis.	. In solid form they are called bases and in solution			
Base	A soapy substance with a pH 8-14 (solid)						
Neutral	A substance that is neither acidic or alkaline with a pH of 7	The pH scale					
Strong a cid	An acid with a pH of 1-3	The pH scale is a number scale from 0 to 14. I alkaline an <i>aqueous solution</i> is. The pH scale i	happens if you mix together an acid and a base (alkali) The reaction is				
Weakacid	An acid with a pH of 4-6	classify <i>solutions</i> as acidic, alkaline or neutral Neutral solutions are exactly pH 7. Acidic solutions have pH values less than 7. Th	he closer to nH 0, the more	called a neutralization because a neutral solution			
Strong a Ikali	An alkali with a pH of 11-14	acidica solution is. Alkaline solutions have pH values more than	7. The closer to pH 14, the	is made if you add just the right amounts. The products are salt and			
Weak alkali	An alkali with a pH of 8-10	more alkaline a solution is.	Para	water. Salt + Water			
pH s cale	A scale used to indicate how a cidic or alkaline a substance is.		Salts have scientific names such as sodium chloride (table salt). The names of salts can be worked out from the acid and the alkali that react to make them.				
Indicator	A substance that changes colour in the presence of a chemical i.e. acid or a lkali.	0 1 2 3 4 5 6 7 8	9 10 11 12 13 14	 Ine first word is the metal taken from the name of the alkali. The second word ends with ide or ate and is taken from the name of the acid. Hydrochloric acid. 			
Neutralisation	A reaction between an acid and an alkali to produce salt and water (neutral substance).	The pH Sca	ale	chloride, Sulphuric acid = sulphate, Nitric acid = nitrate.			

Newsome Academy Veryone Exceptional Everyday

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The aims of the sequence of learning are to ensure that all students: •Identify acids and alkalis using the pH scale •Explain how neutralisation is used to make salts

Retrieval Practice		Career Focus - Where could this take you?				
Questions	Answers					
What is a physical change?	When a substances change state; solid, liquid or gas (reversible)	I am an environmental chemist so I need to understan and behaviour of chemicals in the environment I have				
What is a chemical change?	When substances react to form new substances (irreversible)	evaluate the other organ	eir effects (hazards) and risks to human health and isms in the environment.			
What is an acid?	A sour tasting substance with a pH 1-6.	My work is a laboratory w computer m	done through desk-based research, fieldwork and/or vork, including measurements, data interpretation and ordelling Environmental chemists may be exposed to			
What is an alkali?	A soapy substance with a pH 8-14	computer modelling. Environmental chemists ma contaminants and hazardous conditions in the co work and wear appropriate personal protective e				
What is the difference between a base and an alkali?	A base is a solid and an alkali is a liquid (base dissolved in water)					
What is the difference between a dilute or concentrated solution?	A dilute solution has more water added so it is weaker. Vice versa.	Challenge Activities				
What is an indicator?	A substance that changes colour in the presence of a chemical i.e. acid or a Ikali.	pH.				
What colour/number is a strong acid on the pH scale?	Red-Orange, pH 1-3	 2. Produce flash cards to describe the key terms: reversible, irreversible, chemica physical change. 3. Make a model of atoms, elements, compounds and mixtures. 				
What colour/number is a strong alkali on the pH scale?	Purple, pH 12-14	 4. Antacid tablets are taken to relieve indigestion, the tablets contain alkalis such as calciu hydroxide. 5. Describe how you think antacid tablets may work 				
What colour/number is a weak acid on the pH scale?	Yellow, pH 4-6		^ر			
What colour/number is a weak alkali on	Blue, pH 8-10	Topic Links	Additional Resources			
the pH scale? What colour/number is neutral on the pH scale?	Green, pH 7	This topic links to: • States of matter • Chemical Reactions • Energy	To further practise and develop your knowledge see: Educake - <u>https://www.educake.co.uk/</u> BBC Bitesize -			
What is a neutralisation reaction?	The reaction between an acid and an alkali to produce a neutral solution. They produce water and a salt.	 We will also be practising how to Carry out practical work safely using the scientific method Calculate the rate of a reaction 	https://www.bbc.co.uk/bitesize/topics/zypsgk7 YouTube Cognito - https://www.youtube.com/watch?v=vt8fB3MFzLk			

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The aims of the sequence of learning are to ensure that all students:Describe internal energyExplain how energy transferred via conduction, convection and radiation

Keyword	Definition 🖸	Temperature	Conduction and Convection
Temperature	How hot a substance is	The hotter an object, the more energy it has in its <i>thermal</i> energy store.	Conduction is where energy is transferred by the vibrating particles in a substance. The
Energy	The a bility for something to do work. Measured in Joules (J)	The average speed of particles in a not substance is greater than in a cold substance. Temperature is how hot a substance is. Temperature is	energy is transferred from a hotter region to a cooler region.
Internal energy	The total kinetic and potential energy of particles in a n object.	thermometer. Temperature depends on the average speed of the particles	because the particles are close together.
Chemical store	Organ systems all working together to form a living organism.	In a substance.	Water further from the flame cools. The particles move slower and the water becomes more dense. Hot water rises because it is less dense than the surrounding water. Convection occurs in fluids; a fluid is a substance that can
Thermal energy	Heatenergy	When a material is	Cooter water sinks Hot water rises fluids.
Conduction	The transfer of thermalenergy through a material	heated or cooled, two changes may happen to the particles within the	Cold water sinks Cold w
Convection	The transfer of thermalenergy through a heated fluid	Melting Freezing Chemical bonds between	This process continues. This is called a convection current.
Fluid	A substance that can flow (liquid and gas)	the particles may form, Increasing Increasing Internal	Radiation
Density	The mass of a substance per unit of volume	a change in the chemical potential store of energy in the material	All objects transfer energy to their
Infrared radiation	When energy is transferred by radiation (waves)	Evaporation Condensation The material will heat up or cool down as the	hotter the object, the more infrared radiation it emits.
Emit	To give off, or discharge.	particles within it gain or lose speed. There is a	Infrared radiation is a type of electromagnetic wave. Unlike conduction and convection, there are no particles
Electromagnetic wave	A wave that trave Is through space and carry energy.	change in the thermal store of energy within the material.	involved. This means that energy can be transferred by radiation when there are no particles, like the vacuum of space.

Newsome Academy Year 8 – Heating and cooling

The aims of the sequence of learning are to ensure that all students: •Describe internal energy •Explain how energy transferred via conduction, convection and radiation

Retrieval Practice

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Questions	Answers
What equipment do we use for measuring temperature?	Thermometer
What does temperature depend upon?	The averagespeed of the particles in a substance.
What changes occur when a substance is heated or cooled?	Chemical bonds may break, form or stretch. The particles change speed.
Which substances have the most internal energy?	Gases
Which substances have the least internal energy?	Solids
What is conduction?	When energy is transferred through vibrating particles in a substance.
Which substances conduct heat the fastest?	Solids because the particles are close together.
What is convection?	When heat is transferred through a fluid.
What is a fluid?	A substance that can flow. This is gases and liquids.
What happens to fluids when they are heated?	They become less dense and particles rise.
What happens to fluids when they cool?	They become more dense and particles sink.
What is radiation?	When objects transfer energy to their surroundings.
What is the electromagnetic spectrum?	The range of all types of electromagnetic radiation including infrared radiation.

Career Focus - Where could this take you?

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I am a heat engineer. I install and service heating and air conditioning systems in buildings like offices, schools and hospitals. I can also find and fix faults as well as carry out routine maintenance on systems. Doing a college course helped me learn some skills to get a trainee engineer apprenticeship. These skill include knowledge of building and construction, problem solving skills, analytical thinking skills and the ability to use my initiative.

Challenge Activities







Humanities

Our students will:

- know and understand the history of these islands as a coherent, chronological narrative, from the earliest times to the present day: how people's lives have shaped this nation and how Britain has influenced and been influenced by the wider world
- understand historical concepts such as continuity and change, cause and consequence, similarity, difference and significance, and use them to make connections, draw contrasts, analyse trends, frame historically-valid questions and create their own structured accounts, including written narratives and analyses
- understand the methods of historical enquiry, including how evidence is used rigorously to make historical claims, and discern how and why contrasting arguments and interpretations of the past have been constructed
- develop contextual knowledge of the location of globally significant places both terrestrial and marine – including their defining physical and human characteristics and how these provide a geographical context for understanding the actions of processes
- understand the processes that give rise to key physical and human geographical features of the world, how these are interdependent and how they bring about spatial variation and change over time



Year 8: The Industrial Revolution

The aims of the sequence of learning are to ensure that all students:

Explore changes and continuity in Britain between 1750 and 1900.Explain why British Industry was so successful.

- Analyse a variety of sources to explain what life was like for children working in the mills.
- Evaluate positive and negative features of working in the Mill Industry.

Keyword	Definition	Key Concepts
Industrial Revolution	A time ofgreat change in Britain between 1750 to 1900.	Industrial Changes Overview: Reasons for the Industrial Revolution: Britain was the leader of the Industrial Revolution and 1750 Population increase = demand for more food and clothes.
Population	Number of people living in a particular place.	to 1900 s a w major changes: Transport moved from horse power to steam power. Production moved from things being made in houses Clothes made quicker on machines = factories built. Use of coal for steam = power for machines. Transport gets quicker = easier to get goods to shops.
Invention	Something new which is created - it can be an object or an idea.	(domestic) to being made in factories. People moved from the countryside to the city . Inventions improved production in factories. Ritain became the centre of the trading world
Economy	System of how money is used within a particular country.	An of this means more made that the test of the trading world.
Agriculture	Process of producing food by farming of certain plants or raising animals.	Changes in agriculture 1750 farms were still using medieval ways of planting crops and rearing animals. As population increased, new machines,
Poverty	La ck of basic human needs such as clean water, nutrition, healthcare, e ducation a nd shelter.	crops and ways of farming were introduced, e.g. bigger a ni mals and steam powered threshers for wheat. Small fields were replaced and hedges removed. This meant farm
Industry	Process of making products by using machines and factories.	workers lost their jobs and many had to move to towns and cities.
Factory	Place where machines are used to produce goods	Changes in population: Factory working conditions In 1750, the total population of the UK was about 11 million. This In 1750, the total population of the UK was about 11 million. This
Mass production	Production of many products in one go, e.g. textiles	grew to about 42 million by 1900! Moving from rural to urban areas also saw a huge rise; in 1750, only 20% of the population lived in towns, but by 1900 it was
Patent	Gives the inventor the right to exclude others from making, using or selling their invention for a certain time period.	70%. This meant far more people were working in new industries but this also caused problems because they all needed food and homes. As a result, poverty increased, overcrowding was enclosed by the powerty increased, overcrowding and children. An even better option was to take on an apprentice, as they didn't receive any wages but were given
Rural	Countryside living with not many houses or people.	inhabitants.
Urban	Towns and cities where many people live and work.	Some inventions of The Steam Engine – 1717: Thomas Newcomen invented the first steam engine. It Some inventions of the Industrial Revolution The Locomotive – 1814: Richard Trevithick was a pigneer in early state and not allowing toilet breaks were also sticks or a leather strap. Other punishments included nailing children's ears to the table and dowsing them in water to keep them a wake. Fines and not allowing toilet breaks were also
Orphan	A child who has lost both parents.	would later be improved by James Watt which meant to any accidents including loss of limbs and
Apprentice	A young person who works for someone in order to learn their skill.	water and horsepower in a wide variety of industries, easily. His machines did not need by mater, to spin cotton into yam, quickly and easily. His machines did not need by mater and horsepower in a spin cotton into yam, quickly and easily. His machines did not need by mater and horsepower in a spin cotton into yam, quickly and easily. His machines did not need by mater and horsepower in a spin cotton into yam, quickly and easily. His machines did not need by mater and horsepower in a spin cotton into yam, quickly and easily. His machines did not need by mater and horsepower in a spin cotton into yam, quickly and easily. His machines did not need by mater and horsepower in a spin cotton into yam, quickly and passengers. This invention made transport much easier.
Parliament	Lawmaking group, in the UK government.	to be built. skilled operators so anybody could work on them. and quicker. workers' hearing.



Year 8: The Industrial Revolution

The aims of the sequence of learning are to ensure that all students:

Explore changes and continuity in Britain between 1750 and 1900. Explain why British Industry was so successful.

Analyse a variety of sources to explain what life was like for children working in the mills.

Evaluate positive and negative features of working in the Mill Industry.

		·
Retrieval Practice		Career Focus - Where could this take you?
Questions	Answers	
Explain how education changed between 1750 and 1900?	Education changed by the implementation of schools; schools were built near factories in order to encourage people to move to areas where there were factories.	
Name one improvement in health and medicine in Britain by the 1900s:	The Industrial Revolution betw een 1750 and 1900 brought on major advances in medicine, especially in the fields of hygiene and vaccinations for previously deadly diseases.	
Explain what is meant by the term 'raw materials'?	Raw materials are resources that are extracted from the earth in order to make products. They can also be taken from plants and animals.	
Why was British industry so successful? Give two reasons.	The British Industry was successful because the bigger population meant more workers for the factories. Food became cheaper so people's diets improved so less people died. There were more people to buy the goods and to work, due to more raw materials, coal, iron clay, etc. industry could thrive. Improvements in transport, like, ships and the railway.	Challenge Activities
How did Richard Arkwright's waterframe help factories and production?	The water frame allow ed for the mass production of cotton thread as it allow ed production to be quicker and the thread stronger, which in turn led to the proliferation of factories and the rise of the industrial economy.	 Research the History of local mills in H Calderdale and Bradford) and product include key information about the mil
Tell me two ways you could become a child worker in the mills	You could become a child worker as if you were poor, you would be sold into it, or if your family lived in the housing on site of the factory you would work there after finishing school.	 2. Design a board game based around questions for players to ask, stumblir find the winner. 3. Imagine it is the early 1800s; write a
What job roles were children given in the mills? Give two examples	Children would be scavengers picking up material, thread and clearing dirt and dust, They could also work as piecers, who stood at the spinning machines and repaired broken thread	and conditions for people in Britain and for children working in the mills and fa
What we rewarding conditions like in the mills	Long working hours, low wages, arus dissipling, fierce systems of fines, assidents	Topic Links
and factories?	risks to health	This topic links to other humanities topics such as:
How did the Factory Act of 1819 improve conditions in the mills?	No child under the age of nine to w ork. Children betw een the ages of nine and 13 years: 48-hour w eek; must go to school part-time. This Act applied to cotton factories. Once again there w as no formal w ay to enforce this act as no inspectors were created to investigate factories	 The Slave Trade Jack the Ripper The making of the UK Twentieth Century World
In your opinion, what was the most significant change during the Industrial Revolution in Britain and why?	I believe the most significant change was the invention of machines in factories to do the work of hand tools because it meant more items could be produced.	 We will also be practicing how to: Use statistical data as a source Write a piece of Historical Fiction



I am a Novelist: Myjob is to write books of fiction, and sometime non-fiction, creating characters and plots that may be imaginary or based on real events. I have to make sure I have researched the area I want to focus on and plan my ideas, plots and characters. I will then draft, write, edit and proof-read my work.

Activities

	Chancinge Activities								
 Research the History of local mills in Huddersfield or surrounding areas (within Kirklees, Calderdale and Bradford) and produce a PowerPoint to explain your findings. You must include key information about the mill then and now and include images. Design a board game based around 'factory working conditions'. This should include clues, questions for players to ask, stumbling blocks along the way and then a puzzle to solve to find the winner. Imagine it is the early 1800s; write a report to Parliament explaining why the working day and conditions for people in Britain are unfair. Especially highlight what needs to change for children working in the mills and factories. 									
		Additional Resources							
	This topic links to other humanities topics such as: The Slave Trade Jack the Ripper The making of the UK Twentieth Century World	To further practise and develop you knowledge see: https://www.calderdale.gov.uk/wtw/timeline/1810- 1850/1810-1850-1.html https://yorkshire.u08.eu/halifax/							













Year 8 Horn of Africa

The aims of the sequence of learning are to ensure that all students:

- Name the countries, and their capitals of the Horn of Africa
 Describe the Horn of Africa's main physical features
- Describe the climate patterns in the Horn of Africa.

- Explain how people live and earn money in the Horn and be able to give facts on jobs people do
- Explain how Djibouti's location has supported its development

Keyword	Definition 💽
Agriculture	The practice of growing crops or animals
Civilisation	The society, culture, and way of life of a particular area
Conflict	An extended struggle or battle
Economy	All the business activity going on in a country
Depression	An area of sunken land
Fair trade	Trade between companies in developed countries and producers in developing countries in which fair prices are paid to the producers.
Grazing	Land with vegetation on where animals feed
Hostile	Unfriendly and not liking something
Nomadic	People with no fixed home who travel to find grazing land
Region	An area having definable characteristics but not always fixed boundaries
Relief	The difference in height from the surrounding terrain
Rural	Countryside, where people live in farms or in small villages
Semi- nomadic	People living usually in portable or temporary housing who farm animals and crops

Key Concepts



Coffee and Salt

Ethiopia is the home of coffee, around 15 million Ethiopians depend on it (farming or involved in the selling of it) for a living. Around £50 billion is spent on it globally a year

Salt is mined in the Danakil Depression; in the past the Red Sea flooded the area. When the waters fell the water in the Depression slowly evaporated leaving thick beds of salt. You might have had some on your food?





Year 8 Horn of Africa

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- Explain how people live and earn money in the Horn and be able to give facts on jobs people do
- Explain how Djibouti's location has supported its development

Key Concepts



<u>Nomads</u>

In the Horn of Africa nomads live in the dry areas where there is too little rain for crops. They follow the rains to find grass and vegetation



<u>Djibouti</u>



Djibouti is a tiny country, with a population or only 1.1 million. It has few natural resources but it is in a great location.

It sits at the entrance to the Red Sea, so half the world's container ships pass it on journeys from

	Djibouti	Eritrea	Ethiopia	Somalia	UK
Population (millions)	0.9	5.9	85.2	9.8	64
% aged 14 or under	34	41	44	44	17
% living in towns and cities	77	21	17	38	80
How long a new baby is likely to live for (years)	62	63	60	51	80
% of population with access to clean safe water	92	61	44	29	100
What % of workforce are farmers?	under 30	80	85	71	1.4
GDP per person (PPP) (in dollars)	\$2700	\$800	\$1200	\$600	\$37 500



Year 8 Horn of Africa

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- Describe the Horn of Africa's main physical features
 - Describe the climate patterns in the Horn of Africa.
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Retrieval Practice



Career Focus - Social Researcher



Questions	Answers	I am a social researcher. I study people and the way they interact with each other. I might ask					
Name the 4 countries in the Horn of Africa	Djibouti, Ethiopia, Eritrea and Somalia	questions, observe behaviour, or do experiments to learn more about how people behave in different situations. Luse this information to try					
What is the capital city of Ethiopia?	Addis Ababa	to understand why people do the things they do and how we can make the world a better place for everyone. It's kind of like being a detective.					
Name 2 rivers in the Horn of Africa	Blue Nile and Awash	but instead of solving crimes, I try to solve puzzles about how people think and act.					
How far below sea level is the Danakil Depression	100m	Challenge Activities					
Which area of the Horn of Africa receives most rainfall and why?The Ethiopian Highlands because the higher you go the air cools causing precipitation (rain) to develop		 Write a song, poem or rap about nomads and their lifestyle. You can then perform and film/record this Create a poster or information leaflet about Fairtrade products and why people should buy them 					
How does Djibouti earn money?	The port with ships loading and unloading cargo and it has foreign military bases	• Research and write travel guide to Ethiopia - Include details on the climate, physical features cities, population and what people could see or do there					
Why do nomads move around?	To follow rainfall and find grazing land for their animals	Topic Links O Additional Resources					
How was salt formed in the Danakil Depression?	The Red Sea flooded the area. When the waters fell the water in the Depression slowly evaporated leaving thick beds of salt	This topic links to themes in:Horn of AfricaAfrica• History - slavery and empire• Music - African music• • • • • • • • • • • • • • • • • • •					
What % of people in Somalia have access to safe, clean water?	29%	Science - Biomes					



Key Concepts: World – Countries and Oceans







Newsome Academy Veryone Exceptional Everydey Year 8 When does life begin?

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The aims of the sequence of learning are to ensure that all students:

- Describe one religious perspective on abortion
- Should Carla Foster be sent to prison?

Keyword	Definition	Key Concepts
Fetus	A developing baby	The Law on Abortion in the UK Abortion is lawful in England, Scotland, and Wales provided the criteria in the Abortion Act 1967 are met. In all other circumstances, administering or procuring an abortion is a crime.
Abortion	The intentional ending of a pregnancy	Unless abortion is necessary to save a woman's life or prevent grave permanent injury, doctors have a right of conscientious objection under the Abortion Act or the Abortion (Northem Ireland) Regulations. At the same time, patients have a right to receive objective and non-judgmental care. Doctors with a conscientious objection should inform patients as soon as possible and must tell them about their right to see another doctor, making sure they have enough information to exercise that right. If it is not practical for a patient to arrange to see another doctor, the doctor must make sure that arrangements are made for another suitably qualified colleague to take over care of the patient.
Age of consent	Age at which it is legal to have sex (16 in the UK)	As with all other medical procedures, patients must give the appropriate consent for abortion. Under-16s can consent to an abortion if they are competent to do so. Those with parental responsibility for minors lacking competency can consent to treatment in their best interests on their behalf. Patients, both adult and child, have the right to confidentiality. This cannot be overridden except in exceptional circumstances.
		Religious Perspective ISLAM: Muslims regard abortion as wrong and haram (forbidden), but many accept that it may be permitted in certain cases.
Infertility	The inability to be able to produce children	All schools of Muslim law accept that abortion is permitted if continuing the pregnancy would put the mother's life in real danger. This is the only reason accepted for abortion after 120 days of the pregnancy. Different schools of Muslim law hold different views on whether any other reasons for abortion are permitted, and at what stage of pregnancy.
		if so.
Miscarriage	Natural ending of a pregnancy before the Fetus is viable	<u>Judaism</u> does not forbid abortion, but it does not permit abortion on demand. Abortion is only permitted for serious reasons. Judaism expects every case to be considered on its own merits and the decision to be taken after consultation with a rabbi competent to give advice on such matters.
		Strict Judaism permits abortion only in cases where continuing the pregnancy would put the mother's life in serious danger.
Pregnancy	The state of having a fetus within the	the mother's life is more important than that of the foetus. The Church of England encourages people to think through the issue of abortion very carefully and recognises that each individual will have
Conscientious Objection	A moral objection to something	differing views on the subject. The Church of England shares the Roman Catholic view that abortion is 'gravely contrary to the moral law'. The Church of England is keen to ensure that as many abortions as possible are carried out as early as possible. However, in the rare exceptions
Sanctity of life	All human life is sacred and a gift from God	that a termination has to be carried out beyond 24 weeks, it should only take place where there is a serious foetal disability and survival will be for a very short period of time.



The aims of the sequence of learning are to ensure that all students:

- Describe one religious perspective on abortion
- Should Carla Foster be sent to prison?

The Case Study of Carla Foster



Carla Foster had admitted to illegally procuring her own abortion when she was between 32 and 34 weeks pregnant.

A judge told her last month she would serve half her 28-month term in custody and the remainder on licence, however the Court of Appeal reduced the term to 14 months suspended.

Dame Victoria Sharp, sitting with Lord Justice Holroyde and Mrs Justice Lambert at the London court on Tuesday, called it "a very sad case".

"It is a case that calls for compassion, not punishment," Dame Victoria said.

Foster appeared at the hearing via a video link from Foston Hall prison, Derbyshire. The mother-of-three from Staffordshire was jailed at Stoke-on-Trent Crown Court on 12th June 2023.

The court heard she had moved back in with her ex-partner at the start of lockdown, while pregnant by another man.

Dame Victoria told the court there was "no useful purpose" served by detaining Foster in custody, and added her case had "exceptionally strong mitigation". Foster's barrister Barry White said there had been a lack of "vital reports" into his client's mental health and the pandemic had added to her existing anxiety. The Court of Appeal also heard the prison had not allowed Foster any communication with her children during her 35-day incarceration, one of whom is autistic. Mr White highlighted Foster had voluntarily revealed her actions to police, adding: "Had she not done that, it is highly unlikely that she would have ever been prosecuted." Robert Price, from the Crown Prosecution Service, said the original sentence was not "manifestly excessive" and the judge had "correctly made allowances for mitigating factors in this unusually sensitive case".

As well as the 14-month suspended prison sentence, Foster will also have to complete up to 50 days of activity.

She procured pills by post from the British Pregnancy Advisory Service (BPAS) after providing information that led staff to believe she was seven weeks pregnant.

Although abortion is legal up to 24 weeks, after 10 weeks the procedure is carried out in a clinic. On 11 May 2020, after she took the abortion pills, emergency services received a call to say she had gone into labour.

The baby was born not breathing during the call and pronounced dead about 45 minutes later. Foster was initially charged with child destruction, which she denied.

She later pleaded guilty to an alternative charge of section 58 of the Offences Against the Person Act 1861, administering drugs or using instruments to procure abortion, which was accepted by the prosecution.



In response to the verdict, chief executive of the BPAS Clare Murphy said she was "delighted" the mother would be released from prison and called for a change to the law.

"The court of appeal has today recognised that this cruel, antiquated law does not reflect the values of society today," she said.

"Now is the time to reform abortion law so that no more women are unjustly criminalised for taking desperate actions at a desperate time in their lives."

Right to Life UK, however, urged the government to reject legislation changes and called for a "full inquiry" into how BPAS had come to dispatch Foster's abortion pills.

"Campaigners, led by BPAS... are using this tragic case to call for the removal of more abortion safeguards and the introduction of abortion up to birth across the United Kingdom," said spokesperson Catherine Robinson. "At at least 32 weeks or around eight months' gestation, [the baby] was a fully formed human child. If her mother had been given an in-person appointment by BPAS, she would still be alive," she added.

Newsome Academy Everyone Exceptional Everyday

The aims of the sequence of learning are to ensure that all students:

- Describe one religious perspective on abortion
- Should Carla Foster be sent to prison?

Retrieval Practice		Career Fo
Questions	Answers	
What is abortion?	Decision to terminate a pregnancy	
What is the UK law on abortion?	Abortion is legal up to 24 weeks of pregnancy, unless the mother is at risk.	
What religions believe that abortion is morally wrong?	All religions believe that abortion is morally wrong.	Challeng
What is the Sanctity of Life?	The belief that all life, no matter at what stage, is sacred and a gift from God.	Rese
Who was Carla Foster?	Carla Foster was a British woman who aborted her baby between 32-34 weeks of pregnancy during the 2020 covid pandemic lockdown. She was sent to prison and many ethical debates were raised surrounding this issue.	Topic Lin This topic • This to
Who can issue an abortion?	It can only be a doctor. There would be a proves before one can have an abortion.	We will a

Career Focus - Where could this take you?



I am a doctor. I help those who are injured but also may have to help those who seek help for their babies. Understanding the law and moral and ethical debates like abortion is essential when I perform medical procedures on patients and give them medical advice.

nallenge Activities

- Explain in your own words, what two religions believe about when life begins.
- Research different case studies of abortion cases in the media.

Topic Links	Additional Resources
This topic links to other RE topics such as Euthanasia Christianity (and other religions) 	To further practise and develop your knowledge see:
This topic links with other subjects such as: PME Science We will also be practising how to Argue a point and practise our Voice 21 Participate in debates	https://www.bbc.co.uk/ethics/abortion/ https://www.bbc.co.uk/ethics/abortion/child/alive_1.shtml



Key Concepts

Religion name	Follower	SYMBOL	NAME OF GOD/GODS	COUNTRY OF ORIGIN	FOUNDER /MESSENGER	HOLY BOOK/S	PLACE OF WORSHIP	MAIN FESTIVALS	Denominations /schools/type/	Followers in the UK (approx.)	Followers in the world (approx.)
BUDDHISM	Buddhist	Dharmachakra	none	India (Today in Nepal)	Siddhartha Gotama (The Buddha)	Tripitaka	Temple Shrine room Vihara	Wesak Dharma day	Theravada Mahayana Zen Triratna Pure Land	98,000	376 million
HINDUISM	Hindu	Om/Aum	Brahman (Shiva Vishnu Brahma)	Indus Valley	none	Vedas Bhagavad Gita Mahabharata	Mandir Temple	Holi Diwali		272,000	1 billion
CHRISTIANITY	Christian	Cross	God	Palestine Israel	Jesus of Nazareth	Bible	Church Cathedral	Easter Christmas	Catholic Eastern Orthodox Church of England Baptist Quaker	30 million	2.2 billion
JUDAISM	Jew	Star of David	G_d	Israel	Abraham	Torah Tenakh	Synagogue	Rosh Hashanah Pesach Yom Kippur	Hasidic Orthodox Reform Liberal	214,000	14 million
SIKHISM	Sikh	Khanda	God Waheguru	Punjab, India	Guru Nanak The ten Gurus	Guru Granth Sahib	Gurdwara	Vaisakhi Diwali	Sahajdhari Amritdhari	239,000	23 million
ISLAM	Muslim	Five pointed star & crescent moon	Allah (God)	Saudi Arabia	Muhammad (pbuh)	Quran	Mosque	Eid-ul-Fitr Eid-ul- Adha	Sunni Shi'a Sufi	1,278,000	1.6 billion



Theist = Someone that believes in God

Monotheist = Someone that believes in one God Polytheist = Someone that believes in many gods

Atheist= Someone that doesn't believe in God Agnostic = Someone that is not sure about the existence of God

Timeline of religions (all dates approximate)

1	1	1	1	1	1	^
2000 BC	1500BC	560 BC	0	30 AD	610 AD	1500 AD
Hinduism	Judaism	Buddhism		Christianity	Islam	Sikhism





Our students will:

- understand and respond to spoken and written language from a variety of authentic sources
- speak with increasing confidence, fluency and spontaneity, finding ways of communicating what they want to say, including through discussion and asking questions, and continually improving the accuracy of their pronunciation and intonation
- can write at varying length, for different purposes and audiences, using the variety of grammatical structures that they have learnt
- > discover and develop an appreciation of a range of writing in the language studied.

Newsome Academy Everyone Exceptional Everyday Year 8 Le monde est petit

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🚓 😚

- The aims of the sequence of learning are to ensure that all students can:
- describe where they and others live. talk about the weather.
- Explain what there is to do in their area.

- talk about helping at home
- Use reflexive verbs to describe their daily routine

Keyword C Definition				Key Concepts								
Oùhabites-tu?Wheredo you live?		Where do you live?	Saying wher	e I live			Phonics and Vocabulary					
Elle est <u>co</u>	mment ta régior	ו?	What is your area like?	Elle es	Elle est comment, ta région?				oi	- (wa)		
Qu'est-ce qu'on peut faire à Huddersfield?		à	What can you do in Huddersfield?			plein de plenty of peu de little not	touristes tourists	poisson		Je dois	froid	
Quel temp Huddersfi	os fait-il a eld?		What is the weather like in Huddersfield?		il y a	many trop de too	magasins shops		,	ToPo	₩J	
Qu'est-ce qu'on doit faire pour aider à la maison?		9	What do you have to do to help at home?	Dans ma région In my region	there is/are	un a	champ – field lac – lake		Mar	Ma routine		
Tu te lèves à quelle heure?.		e?.	What time do you get up at?			une	jardin public - park montagne - mountain plage - beach	je me lève je prends le p	etit déjeuner	I get up I have break	fast	
Qu'est-ce	que tu fais le ma	tin?	What do you do in the			а	rivière - river	je me douche I have a shower je me coiffe I do my hair				
			morning?		il y'a pas de bâtin there are no voitu		bâtiments - buildings plages - beaches	je m'habille I get je me lave les dents I clea		I get dresse	essed	
Que pens	es-tu de		What do you think about your area?				voitures - cars	je quitte la je me lave	maison	I leave the house I have a wash		
		un v	illage - a village	Qu'est-ce qu'on peut faire à Huddersfield? Je me couche I go to bed								
	dans - in	une le d	ville - a town ésert - the desert		manger o	des crêpes - ea	t pancakes	Qu'est-c	e qu'on doit ·	faire pour aide	er à la maison?	
	à la - in the	cam	pagne – countryside		visiter le	es monuments h	istoriques - visit historic	faire la cuisine - do the cooking		e cooking		
J'habite	au - at	bor	d de la mer - the seaside		visiter d	es grottes - vis	it caves	– I must	faire la	vaisselle – do t	he washing up	
1 live	sur - on	une	île - an island		aller au cinéma / à la plage / en ville - go to the cinema/beach/town		Tu dois –you	nourrir	lessive - do th les animaux - f	e wasning eed the animals		
	en - in	Fra	nce /Suisse - France/Switzerland	On peut faire les magasins - go shopping II doit		Il doit	garder	ma soeur - look	after my sister			
	au - in	Mar	roc - Morocco	You can faire des randonnées - go for walks faire du canoë-kayak - go canoeing faire du ski - go skiing			– he must	garder ranger	garder mon frère - look after my brother ranger ma chambre - tidy my room			

Newsome Academy Everyone Exceptional Everyday Veryone Exceptional Everyday

- The aims of the sequence of learning are to ensure that all students can:
- describe where they and others live.
 talk about the weather.
- Explain what there is to do in their area.

- talk about helping at home
- Use reflexive verbs to describe their daily routine

Retrieval Practice



Career Focus - Where could this take you?



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Questions	Answers
<u>Où</u> habites-tu?	J'habite à Huddersfield dans le nord de l'Angleterre. C'est une grande ville.
Elle est comment ta région?	C'est très joli . Il y a beaucoup de <u>champs</u> et il y a aussi <u>des montagnes</u> . Il n'y a pas <u>de lac.</u>
Qu'est-ce qu'on peut faire à Huddersfield?	À Huddersfield on peut <u>visiter les</u> <u>monuments</u> ou on peut <u>voir un match de</u> <u>foot</u> . Je pense que c'est <u>super!</u>
Quel temps fait-il a Huddersfield?	En été <u>il y a du soleil</u> et <u>il fait chaud.</u> En hiver <u>il fait froid</u> et <u>il pleut.</u>
Qu'est-ce qu'on doit faire pour aider à la maison?	Je dois <u>faire la vaisselle</u> tous les jours. C'est <u>nul!</u>
Tu te lèves à quelle heure?.	Normalement, je me lève à sept heures.
Qu'est-ce que tu fais <u>le</u> <u>matin?</u>	Je me lève et puis je prends le petit déjeuner . À huit heures je vais au collège.
Que penses-tu de ta région?	Ma région est <u>très belle</u> . Il y a plein de magasins et restaurants.



I am a tour guide. I work with people from all over the world and travel to lots of different cities. It helps me that I can speak another language, because I can communicate with people who live in the country I am touring. I can also give tours in different languages.

Challenge Activities



- 1. Research a French town or region. Where is it? What is it famous for? Find out as many details as possible.
- 2. Make a tourist map of Huddersfield and label things in French.
- 3. Complete the activities on Language nut.

Topic Links	∂	Additional Resources	
This topic links to:		To further practise and develop your knowledge see:	
• Holidays		Language nut	
 All about me. Hobbies 		Active learn.	
• Time			





Computing

Our students will:

- can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation
- can analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems
- can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems
- are responsible, competent, confident and creative users of information and communication technology

Newsome Academy Unit 8.2: Kodu The aims of the sequence of learning are to ensure that all students:

- Demonstrate knowledge of the Kodu tool bar by describing what each button does Demonstrate knowledge of using Kodu by describing how to accurately use a range of
- Apply knowledge of creating rules and using tools in Kodu to develop a range of games

• Apply knowledge from this unit to accurately describe some keywords





- The aims of the sequence of learning are to ensure that all students:
- Demonstrate knowledge of the Kodu tool bar by describing what each button does
 - Demonstrate knowledge of using Kodu by describing how to accurately use a range of different features
- Apply knowledge of creating rules and using tools in Kodu to develop a range of games
- Apply knowledge from this unit to accurately describe some keywords

Retrieval Practice



Career Focus - Where could this take you?



I am a **Gameplay designer** and work in a team that is responsible for the central part of the game experience – how it plays. My job involves defining the game's structure, its rules, characters, and different modes of play, like story mode or multi-player.

Challenge Activities



- 1. Create a multiplayer game in Kodu that uses all of the tiles, scripts and techniques you have covered in this unit. Also, research the internet and include the use of new tiles and scripts that have not been covered in this unit.
- 2. Create a poster on MS PowerPoint that includes one or all of the following details: how to use variables, iteration, and conditional statements on Kodu to create games
- 3. Create a short vlog about the types of careers you could get into within the gaming industry. Explain what you would need to study at college and university to pursue these career paths

Topic Links	Additional Resources
This topic links to:	To further practise and develop your knowledge see:
• Computing Curriculum: Understand how instructions a restored and executed within a computer system	 <u>https://www.kodugamelab.com/</u> <u>https://www.youtube.com/@KoduTeam</u>
• Mathematics: use of logical inference, problem-solving skills and simple algebra	





Our students will:

- > produce creative work, exploring their ideas and recording their experiences
- > become proficient in drawing, painting, sculpture and other art, craft and design techniques
- > evaluate and analyse creative works using the language of art, craft and design
- > know about great artists, craft makers and designers, and understand the historical and
- cultural development of their art forms.
- develop competence to excel in a broad range of physical activities are physically active for sustained periods of time engage in competitive sports and activities
- lead healthy, active lives.

Newsome Academy Everyone Exceptional Everyday

The aims of the sequence of learning are to ensure that all students can:

- Understand how the brain perceives optical patterns.
- recreate optical illusions using different media.
- Give facts about the artist Bridget Riley.

- make a 3D shape from a 2D net.
- measure accurately when drawing optical patterns.
- create a 3D cube decorated with optical patterns.
- Produce a portrait filled with optical patterns.





Y8 Op Art

The aims of the sequence of learning are to ensure that all students can:

- Understand how the brain perceives optical patterns.
- recreate optical illusions using different media.

make a 3D shape from a 2D net.

- measure accurately when drawing optical patterns.
- create a 3D cube decorated with optical patterns.
- Produce a portrait filled with optical patterns.

Retrieval Practice

What is Optical Art?

Questions







My job is an **architect**. I transform building designs into reality, ensuring functionality, safety, and creative vision. I collaborate with engineers and develop concepts for structures that meet project goals and operational standards.

Challenge Activities



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Topic Links This topic links to:

Mathematics – accurate measuring of lines and shapes.

18 **Additional Resources** To further practice and develop your knowledge see:

Op art | Tate





Newsome Academy Everyone Exceptional Everyday Year 8 Textiles

- The aims of the sequence of learning are to ensure that all students:
- Demonstrate safe use of tools and equipment.
- Explain a range of Regenerated fibre properties
- Rank fibres in order of environmental impact.

- Annotate a range of design ideas which include moral and cultural issues.
- Demonstrate an understanding of smart materials.





Newsome Academy Everyone Exceptional Everyday

- The aims of the sequence of learning are to ensure that all students:
- Demonstrate safe use of tools and equipment. Explain a range of regenerated fibre properties
 - Rank fibres in order of environmental impact.
- Annotate a range of design ideas which include moral and cultural issues.
- Demonstrate an understanding of smart materials.

Retrieval Practice

Question	A1	A2	A3	A4	A5
A. What is a regenerated fibre?	Made from a plant	Made in a factory	Coal & oil	A fibre made from cellulose (wood pulp)	A fibre made from Animals
B. Which fibres are Regenerated?	Wool	Lyocell	Acetate	Cotton	Polyester
(select more than 1) C. What is a design Specification?	A listof design solutions	A listof costings	A listof designissues	A listof important points	A detailed listof what the product mustbe/
D. Which fibres are Synthetic?	Polyester	Nylon	Cotton	Bamboo	Viscose
(select more than 1) E. What is a light emitting Diode?	A type of disco ball	A Type of switch	A type of resistor	LED Light	A type of battery
F. What advantages are they in using a laser cutter? (select more than 1)	Fast	Accurate	Less material wastage	Cuts multi materials (except metal)	Cuts complex shapes and fine detail
Questions you got wrong	Quick Corre	ections (brid	ge learning ${}_{\{\!\!\!\!\ p\ \!\!\!\!\}}$	gaps & misco	onceptions)





A Lab Technician performs tests and analyses in a laboratory. Lab technicians work in a variety of different fields such as medicine, textiles and Engineering.

Huddersfield University offer an MA degree in Textile Technology, and you will need an Honours degree (2:2 or above) in a relevant subject or an equivalent professional qualification.

Salaries usually range from £18,000 - £38,000

Challenge Activities

Can you Identify these E-Textile Symbols and Explain when they do?



Topic Links

Additional Resources

2

This topic links to:

- Science- How electronics can be used within textiles and the development of Smart Fibres
- English- Subject specific Vocabulary knowledge, understanding and spelling.

To further practise and develop your knowledge see:







Newsome Academy Everyone Exceptional Everyday

- The aims of the sequence of learning are to ensure that all students: Demonstrate an understanding of gear and pully Demonstrate safe use of tools and equipment.
- Explain a range of Timber Materials and properties/ • •
 - Rank Materials in order of environmental impact.

- systems.
- Demonstrate an understanding of working drawings, measurements and functions.

Keyword	Definition 🖸
Gears	One of a set of toothed wheels that work together to alter the relation between the speed of a driving mechanism
Compression	The action of compressing or being compressed.
Tension	The state of being stretched tight:
Pinewood	An evergreen coniferous tree that has clusters of long needle-shaped leaves
PVA	Polyvinyl acetate used to glue materials
Scroll saw	A scroll saw is a small electric or pedal-operated <u>saw</u> used to cut intricate curves in wood,
Shear	is a process that cuts stock without the formation of chips or the use of burning or melting
Laser	A laser is a device that emits <u>light</u> through a process of <u>optical amplification</u>
Safety Goggles	Protective eyewear to stop fragments entering the eye.
Timber	Timber is wood that has been processed into uniform and useful sizes
Specification	A design specification is a detailed document that sets out exactly what a product or a process should present
Analysis	is the process of breaking a <u>complex topic</u> or <u>substance</u> into smaller parts in order to gain a better <u>understanding</u> of it.
Iconic Design	someone or something that is seen as a <u>cultural icon</u>
Product Lifecycle	is the process of managing the entire lifecycle of a product from its inception through the <u>engineering</u> , <u>design</u> and <u>manufacture</u> ,
Corrugated Cardboard	is a type of packaging material consisting of a <u>fluted corrugated</u> sheet and one or two flat linerboards

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Key Concepts	
FORCES	Materials & End Product
Tension Being stretched	Stainless Steel Spoon
Bending A motion or action that bends	
Compression Putting pressure on an object	Aluminium Aircraft Fittin
Torsion Twisting	
Shear Cutting	Copper Tubing
Triangulation Forming rigid triangles together	

Newsome Academy Year 8 Sweet Dispenser Project

- The aims of the sequence of learning are to ensure that all students: Demonstrate an understanding of gear and pully
 - Demonstrate safe use of tools and equipment.
- Explain a range of Timber Materials and properties/
 - Rank Materials in order of environmental impact.

- systems.
- Demonstrate an understanding of working drawings, measurements and functions.

Retrieval Practice

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Question	A1	A2	A3	A4	A5	
A. What is an Acrylic?	Wood	Metal	Plastic	LED	Film	Wards -
B. Whatis a product analysis?	A Detailed look at a specification	A quick look at a product	A Detailed look at a shoe	A Detailed look at a car	A Detailed look at a product	
C. What is Shear referring to?	Sewing	Drawing	Jumping	Cutting	Dancing	
D. Which are iconic	A					Challenge Activi
one)			Z	M	Ľ	Charles Rennie Macintosh
E. Whatis a scrollsaw?	A bladed machine for cutting wood.	A drillpart	A paper cutter	A saw for cutting Glass	A machine for drilling holes	A
F. What is Timber?	A type of wood	A type of plastic	A type of metal	A type of glass	A type of Fabric	
Questions Which you got wrong	Quick	Corrections (bridg	ge learning gaps	& misconceptio	ns)	Topic Links
						This topic links to:
						 History- Iconic English- Subject knowledge, und
						Maths- Measu



History- Iconic Design

English- Subject specific Vocabulary

Maths- Measurements in cm.

knowledge, understanding and spelling.

Career Focus - Where could this take you?

Engineers, as practitioners of engineering, are professionals who invent, design,

analyse, build and test machines and complex systems.

Kirklees College offer an Engineering and Manufacturing course level 2 and you will need A minimum of 4 GCSEs with the following grades: English at 3 or above and maths at 3 or above and 2 other GCSEs at 3 or above including a science or technology course.

Salaries usually range from £36,000-£48,000

nallenge Activities- Match the Product to the Designer.



Additional Resources

R

Phillipe Starck



James Dyson

To further practise and develop your knowledge see: https://voutu.be/9wHIJXnx0bM

https://voutu.be/b36Lt9bXFsk

https://voutu.be/aHzIWI7CS8E



Year 8 Food Tech

The aims of the sequence of learning are to ensure that all students:

Apply knowledge of Health and Safety in relation to the Food Standards Agency and Legislation Demonstrate knowledge of food provenance Be able to discuss confidently a range of manufacturing processes

Keyword	Definition 🗔	Key Concepts	
Food origin	Where the food originated in the world	The Food Standards Agency (ESA) is responsible for food	
Food provenance	Whether the food was grown, caught or reared	safety and food hygiene in England, Wales and Northern	Food and in partnership with your local authority
Transportation	How food is transported from one place to another	safety regulations and its staff work in meat plants to	food.govuik/ratings
Food processing	Changing food in some way e.g washing, chopping, pasteurising, freezing, fermenting, packaging	check the standards are being met.	FOOD HYGIENE RATING
Food manufacturing	Food manufacturing refers to transforming rawingredients into edible products such as using wheat, oat, and sugar to make cereals, desserts, and pet food.	Food Standards Act 1999	012345
Farming	Farming is the activity of growing crops or keeping animals on a farm.	1999	VERY GOOD
Calcium	Calcium is a mineral your body needs to build and maintain strong bones and to carry out many important functions.	It sets out our main goal to protect public health in	
Carbohydrate	Carbohydrates provide energy for the body. The body breaks carbohydrates down into glucose, which is the primary energy source for the brain and muscles.	relation to food. It gives us the power to act in the consumer's interest at any stage in the food production	The scheme gives businesses a rating from 5 to 0 which is displayed at their premises and online so you can make more informed choices about where to buy and eat food.
Protein	Protein is one of the three nutrients found in food that the body needs in large amounts. It is essential for the maintenance and building of body tissues and muscle.		
Fibre	Fibre is a type of carbohydrate that the body cannot break down and so it passes through our gut into our large intestine (or colon). It is found naturally in plant foods like wholegrains, beans, nuts, fruit and vegetables and is sometimes added to foods or drinks. Fibre helps to keep our digestive system healthy and helps to prevent constipation.	The main responsibilities for all food businesses covered by the Act are to ensure that:	5 – hygiene standards are very good 4 – hygiene standards are good 3 – hygiene standards are generally satisfactory
Fat	The body uses fat as a fuel source, and fat is the major storage form of energy in the body. Fat also has many other important functions in the body, and a moderate amount is needed in the diet for good health. Too much fat or too much of the wrong type of fat can be unhealthy.	 businesses do not include anything in rood, remove anything from food or treat food in any way which means it would be damaging to the health of people eating it 	2 – some improvement is necessary 1 – major improvement is necessary
Cross- contamination	Cross-contamination is the physical movement or transfer of harmful bacteria from one person, object or place to another.	 the food businesses serve or sell is of the nature, substance or quality which consumers would expect 	0 – urgent improvement is required
Nutrient	a substance that provides nourishment essential for the maintenance of life and for growth.	• the food is labelled, advertised and presented in a way that is not false or misleading	
Healthy	In a good physical or mental condition; in good health.		



Year 8 Food Tech

The aims of the sequence of learning are to ensure that all students:

Use safe and hygienic practices in a working kitchen environment
 Demonstrate sound preparation skills of both equipment and ingredients

Safely use a range of cooking techniques, a ppropriate to the task

Key Concepts

Scones



Ingredients:

85g diced butter

350g self-raising flour

¼ tsp salt

1 1/2 tsp bicarbonate of soda

4 tbsp caster sugar

- 200ml milk, warmed to
- room temperature, plus a splash extra
- Crushed sugar cubes, to decorate. 7.

*** Container with a lid ***



Method:

- 1. Heat oven to 200C/180C fan/gas 6.
- 2. Whizz butter into flour.
- 3. Tip into a bowl and stir in salt with bicarbonate of soda and sugar.
- 4. Using a cutlery knife, quickly stir in milk don't overmix.
- 5. Tip out onto a lightly floured surface and turn over a couple of times to very gently bring together with your hands.
- 6. Gently pat to about 1in thick, then stamp out rounds with a floured cutter.
 - Pat together trimmings to stamp out more.
- 8. Brush the tops with a splash more milk, then scatter with crushed sugar cubes.
- 9. Bake on a baking sheet for 10-12 mins until risen and golden.

<u>Equipment</u>

- Baking tray
- Cutlery
- Mixing bowl
- Rounded knife
- Fork
- Measuring bowl
- Weighting scales

Adaptions:

- Choose 2 from:
- 10 glace cherries
- 50g raisins/sultanas/dates
- 50g coconut
- 1 eating apple
- 1tsp cinnamon

HYGIENE & SAFETY TIPS

- Wash your hands with warm soapy water before you begin.
- Check gas ovens are lit correctly.
- Use oven gloves when you take tray out of the oven



Year 8 Food Tech

The aims of the sequence of learning are to ensure that all students:

Apply knowledge of Health and Safety in relation to the Food Standards Agency and Legislation

Demonstrate knowledge of food provenance Be able to discuss confidently a range of manufacturing processes

Chicken / Vegetable Curry





Equipment:

- Chopping board
- Vegetable knife
- Large panWooden spoon
- Cutlery

****container with a lid****



• 2 chicken breasts

Ingredients:

- 1 red onion
- ½ red or green pepper
- 1 tin of chopped tomatoes
- 2 tsp curry powder or paste
- 1 tbsp. tomato puree
- 4 button mushrooms
- 25g natural yoghurt or single cream (optional)
- 2tsp vegetable oil
- Replace chicken with either: 100g green or red lentils, Quorn pieces, potato, spinach or mushroom combination.

 Skills:
 Meaning:

 1.
 General Practical Skills: Weighing ingredients, measuring, preparing ingredients and equipment, correct cooking times, testing for readiness and sensory testing.

 2.
 Knife skills: Can use equipment safely. Slicing, dicing and chopping.

- 3. Preparing fruit and vegetables: I can prepare fruit and vegetables in many different ways: Slicing, peeling, grating, dicing and chopping.
- 4. Use of the cooker (and Skills 6: Cooking Methods): Using the cooker including: the hob, grill and oven.
- 6. Cooking Methods: Using the cooker including: the hob, grill and oven.
- 7. **Preparing, combine and shape:** Techniques to prepare, cook and combine different ingredients

Method:

- 1. Chop any vegetables and place in pan with vegetable oil.
- 2. Put pan on low heat stir with wooden spoon.
- 3. Chop chicken into pieces.
- 4. Add chicken to pan being careful to avoid cross contamination.
- 5. Stir chicken with wooden spoon and turn to medium heat.
- 6. Add curry powder and continue to cook ensuring chicken doesn't stick to pan.
- 7. Once chicken is cooked through (no longer pink in the middle) stir in tin tomatoes and puree.
- 8. Continue to cook on medium heat to low heat (simmer).
- 9. Stir in yoghurt or cream.
- 10. Turn off heat and transfer to container.



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The aims of the sequence of learning are to ensure that all students can: Year 8 Blues Music • Use the blues scale and chords to create a Blues style composition Perform the 12-bar blues and blues scale using correct technique

improvise and sing, using the blues scale and blues melodies

demonstrate understanding of the stylistic features and context of Blues music through a range of listening activities

Keyword	Definition
12 bar blues	Traditional style of music using 3 chords over a 12-bar cycle
Walkingbass	The bass part in the Blues 'walks' up and down the keyboard creating a bass line
Syncopation	Where music is played off beat (not played on the main beat of the bar)
Improvisation	Music that is made up on the spot by the performer, often based on specific set of notes
Swing rhythm	When playing quavers, the first note is held slightly longer and the second shorter, to give a swinging feel
Guitars	The original blues instrument. It plays chords and melodies, often improvised. the bass guitar (or double bass) plays the bass line
Horn section	This is often made up of saxophones, trumpets and trombones
Keyboards	The piano/organ is often used for both melodies and chords
Drum kit	Use to play the rhythm in Blues bands – often playing a swing rhythm







The aims of the sequence of learning are to ensure that all students can: Year 8 Blues Music • Use the blues scale and chords to create a Blues style composition • Perform the 12-bar blues and blues scale using correct technique

improvise and sing, using the blues scale and blues melodies

• demonstrate understanding of the stylistic features and context of Blues music through a range of listening activities

12 Ba	r Blues witl	h a walking	bass line	C = C E G	
Play the cho with your rig hand	ord Eb _		Bb C	F = F A C G = G B D	
Play the bas line with you left hand	CEGA SFACD	C Bb A G E F Eb D C A	C CEGA CEGA	C Bb A G E C Bb A G E	Challenge Activitie Practise playing the difficult bassline. Have a go at impro- inspiration: <u>https://www.youtu</u> Or if you would ra with vocals <u>https://www.youtu</u> Topic Links This topic links to: • History-there is so Blues music and w about this in class
	G g b d b	F F A C A	C c e g e	G G B D B	 the slave trade you his tory lessons Geography – Blues style that originate states in America find New Orleans the map. Two imp the Blues movements states are they in a sta

Career Focus - Where could this take you?



I am a composer for film and TV programmes. I write in a variety of different styles to suit the job that I am commissioned to do. I use a range of musical skills but mostly my keyboard and music technology skills are used. I have an excellent understanding of composing devices and how musical cliches work.

e 12 bar blues at home. You can try the simple or the more vising over the bluess cale – watch this video for some

be.com/watch?v=RJu-wptS6Ng

ther sing, this is a great lesson on using the Blues scale

ibe.com/watch?v=S7Tc0HEiuVs

Topic Links	Additional Listening
This topic links to: • History – there is such a history to	BB KING The Thrill is Gone
Blues music and we will be learning about this in class and how it links to the slave trade you learn about in bictoryloscopy	<u>Robert Johnson -</u> <u>Crossroads</u>
 Geography – Blues is a nimportant style that originated in various 	<u>Memphis Minnie - Hoodoo</u> <u>Lady Blues</u>
states in America - see if you can find New Orleans and Chicago on the map. Two important cities in	<u>Bessie Smith - St. Louis</u> <u>Blues</u>
the Bluesmovement. Also, what states are they in?	<u>Miles Davis - Kinda Blue (full</u> <u>album)</u>
	 Topic Links This topic links to: History-there is such a history to Blues music and we will be learning a bout this in class and how it links to the slave trade you learn about in history lessons Geography-Blues is an important style that originated in various states in America - see if you can find New Orleans and Chicago on the map. Two important cities in the Blues movement. Also, what states are they in?

Newsome Academy Everyone Exceptional Everyday	Year 8 Net and Wa	 The aims of the sequence of learning are to ensure that all students: Can identify at least three core skills required for net and wall games Demonstrate core skills in a practice situation Demonstrate core skills in a game situation
Keyword	Definition	Key Concepts You should already know: - The aim of net and wall games You will be assessed on: - Understanding - Technique in isolation - Technique in game - Leadership - Attitude to learning
Racket	A piece of equipment with a handle, frame and head. This is used to hit the shuttle or ball over the net	Table Tennis Key Concepts Events Key Concepts Ready Position Players should always be in the ready positon before receiving the ball. Events and Drive Controlled backswing, with striking arm opening up
Shuttle	A cone shaped object with a cork base. This is hit over the net with the racket.	 Knees bent Feet shoulder width apart Feet shoulder width apart Racket should be level with the table and in front of body Racket should be level with the table and in front of body Strike the ball on top of the bounce Follow through the shot, moving upwards and finishes in line with your nose
Net	Rectangular net placed across the court. It divides the court in two.	Backhand serve Ready position The ball rests in the palm of the resting hand
Court	The playing surface area marked out with lines	Backhand push Arm moves back towards chest Toss the ball up (at least 15cm) Forward movement comes from the elbow making controlled backswing so your elbow bends inwards towards chest (making on L chests)
Table	The playing surface used to play table tennis	Forward movement comes from the elbow making contact underneath the ball Finish by extending your arm in the follow through (changing from an L shape to a I shape) Head should be over the ball when making contact • Follow through by returning to the ready position
Serve	A shot that is selected to start a game in net and wall activities	Badminton Key Concepts
Forehand shot	Shot taken with the palm of your hand facing the direction of the stroke	BADMINTON Ine basics BADMINTON your opponent's court before they hit it. A point can also be gained when your opponent's naise your opponent's half of the court. Whenever you do this, you have won a rally; win enough rallies, and you win the match. your opponent has the same goal. He will try to reach the shuttle and send it back into your half of the court. You can also win rallies from your opponent's mistakes: if he hits the shuttle into or under the net, or out of court, then you win the rally. To win a game you must reach 21 points before your opponent. If you do so then you will have won that set. If the scores are tied at 20-20 then it comes down to whicher player manages to get two clear points ahead. If the points are still tied at 29-29 the you to win 2 out of the 3 sets played.



Year 8 Net and Wall Games

- The aims of the sequence of learning are to ensure that all students:
- Can identify at least three core skills required for net and wall games
- Demonstrate core skills in a practice situation
- Demonstrate core skills in a game situation

Lead a small group of peers in a skill practice session

Retrieval Practice



Career Focus - Where could this take you?



I am a professional badminton racket maker. My main job is to repair and re-string professional athlete's rackets. I have to ensure the quality and accuracy with the weight of the racket, balance point, string tension and hand grip.

Challenge Activities



Design a skill card:-

This can be used in a PE lesson to help a student to assess their current ability level. Make the skill card to teach the correct way to Serve in either badminton or table tennis.

Create a rules of the game poster:-

This can be used by all students in their PE lessons for badminton or table tennis when their role is umpiring a game so that all games can be played fairly, following RITA values. Your poster should have 3-5 basic rules.

Topic Links	Additional Resources
This topic links to: •Science – The role of the cardiovascular system; the physics of sports •English – understanding and defining key terminology •Mathematics – problem solving, recording figures and a nalysing performance and score keeping •Voice 21 – coaching peers and explaining rules by officiating	To further practise and develop your knowledge see: https://www.badmintonengland.co.uk/ https://www.tabletennisengland.co.uk/



The aims of the sequence of learning are to ensure that all students can:

- demonstrate the: set up, completion and interpretation of fitness tests.
- understand the components of fitness and how they can be trained
- Identify which components of fitness are important to specific types of athlete.
- complete training sessions to train specific components of fitness.
- understand how to live a healthy, active lifestyle.

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Keyword	Definition
Power	The maximum strength and maximum speed or your muscles in order yourself forward. Power = strength x speed.
Co-ordination	The ability for muscles to work together in pair to move different body parts in time.
Reaction Time	The time taken for a person to react to a stimulus.
Agility	The ability to change direction at speed withou making a mistake in your performance.
Balance	The ability to maintain your centre of mass and control without falling over.
Speed	To moves as fast as possible over a distance in the shortest time. Speed=distance/time.
Cardiovascular endurance	The ability for the heart and blood vessels to transport oxygenated blood to the working muscles in sports performance so a person can work for a long time without getting tired.
Muscular strength	The maximum force that your muscles can make to move an object.
Muscular endurance	Your muscles can work continuously at moderate intensity for a long period of time without them getting tired.
Flexibility	This is the range of movement that can be performed around a joint by the muscles.
Body composition	This is the total amount of fat, bone and muscles of a persons body.



Year 8 Health and Fitness

The aims of the sequence of learning are to ensure that all students can:

- demonstrate the: set up, completion and interpretation of fitness tests.
- understand the components of fitness and how they can be trained

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- Identify which components of fitness are important to specific types of athlete.
- complete training sessions to train specific components of fitness.
 - understand how to live a healthy, active lifestyle.

Retrieval Practice:

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Unscramble the component of fitness keywords and match them to the correct definitions





Career Focus - Where could this take you?

I am a personal trainer. My job is to carry out various tasks, starting from assessing my clients' physical condition and creating unique workout routines for them. I explain the exercises in a clear and efficient way, while demonstrating how to use the training equipment safely and how to avoid injuries. I also help with giving advice on lifestyle choices linked to nutrition and healthy eating habits.

Challenge Activities



Design a training programme:-

Can you create a 4-week training programme that shows 5 different exercises that get progressively harder each week. Use the example provided on the previous page for guidance.

Create a match the keywords to definition poster:-

Select between four to six different keywords and match them to the correct definition answers. Make sure on the reverse of your skill card you have included the correct answers so students can test and assess themselves and others.

Topic Links	Additional Resources
This topic links to: •RSHE – Understanding how physical activity can reduce	To further practise and develop your knowledge see:
s tress and anxiety and promote physical, mental and social wellbeing	https://www.topendsports.com/testing/tests/
 Mathematics – problems olving, recording figures and a nalysing performance. Voice 21–testing others in the class on keywords. 	https://www.teachpe.com/training-fitness/fitness-testing



Usernames and Passwords