Wellington School



Knowledge Organisers Year 7 Spring 2024

Knowledge Organisers

Some subjects like Design Technology organise the curriculum on a carousel, as such all the organisers for that subject are in the Spring Term booklet.

<u>Contents</u>

An introduction to Knowledge Organisers Art Computing Drama Design Technology (DT) English Geography History Mathematics MFL Music PSHE Religion, Ethics and Philosophy (REP)

*Some subjects have Knowledge Organisers which last two terms or a year, therefore it will be the same as the Autumn Term.

An Introduction to Knowledge Organisers

What is a Knowledge Organiser?

A knowledge organiser is a document, usually one side of A4, occasionally two, that contains key facts and information that children need to have a basic knowledge and understanding of a topic, or in some cases a series of topics.

Students are expected to bring their Knowledge Organiser Booklet to school every day. Students will be issued with a new booklet to bring each term. However, it is import they keep the old booklets to help with revision for end of year exams.

What are the benefits of knowledge organisers?

The main benefit of knowledge organisers is that they give students and parents the 'bigger picture' of a topic or subject area. Some topics can be complicated, so having the essential knowledge, clear diagrams, explanations and key terms on one document can be really helpful.

Research shows that our brains remember things more efficiently when we know the 'bigger picture' and can see the way that nuggets of knowledge within that subject area link together. Making links, essentially, helps information move into our long-term memory.

How can the students use them?

As mentioned earlier, students are expected to bring their Knowledge Organiser Booklet to school everyday. In lessons they can be used in a number of ways, for example, to look up the meaning of key words, spell words correctly and do some additional work if they have finished classwork.

At home knowledge organisers can be used to support homework, independent work and revise for tests and exams. Two quick and easy ways to do this are:

- 1. <u>Look, cover write, check</u> look at <u>part</u> of the knowledge organiser, cover it, write as much as you can remember and then check it
- 2. <u>Word up</u> Pick out any words you don't understand. Use a dictionary or thesaurus to find the meaning. If they don't help as your teacher.

The more often you do this the better. YouTube has some clips on them; search 'Mr Garner look, cover, write, and check 'and 'Mr Garner word up'

How can parents use them?

- Read through the organiser with your son/daughter if you don't understand the content then ask them to explain it to you 'teaching' you helps them to reinforce their learning.
- Test them regularly on the spellings of key words until they are perfect. Get them to make a glossary (list) of key words with definitions or a list of formulae.
- Read sections out to them, missing out key words or phrases that they have to fill in. Miss out more and more until they are word perfect.

How the booklet is organised

The knowledge organisers are in alphabetical order by subject.

Skills. • Planning/proportion • Tone for 3D and surface

Knowledge Organiser Term 283

qualities

Artist understanding/application
Painting echniques

- Measurements/grid planning
- Developing intentions and ideas
- Colour mixing
- Presentation skills

Lina Vicktor

Portraits





Lina Viktor is an Liberian- British artist

Her works across paper and canvas draw on a variety of artistic traditions and visual influences, from European portraiture, classical mythology and astronomy, to ancient Egyptian and African symbolism.

The lustrous blacks are punctuated with luminous gold and opulent ultramarine blue – the limited colour palette making the work high contrast.

Viktor's shows cultural narratives and potent mediations on blackness and being. It is layered with reflections on history and culture. Her portraits present the viewer with a proud and powerful black woman, patterns cross the line between graphic, geometric and symbolic of her heritage Other well known Portrait Artists:

Pablo Picasso Van Gogh Andy Warhol David Hockney Lucian Freud Frida Kahlo





Heywords Proportion Highlight Expression

LINE LINE

Guide lines skin tone Tone Mark making Technique Shape Style Portrait Composition Texture Symmetry

Spreadsheet Reference

Formula view

	А	В	С	D	E
1	Product	Price	Tax rate	Tax amount	Selling price
2	Sprocket	£10.00	20%	=B2*C2	=B2+D2

Normal view

	А	В	С	D	E
1	Product	Price	Tax rate	Tax amount	Selling price
2	Sprocket	£10.00	20%	£2.00	£12.00

A spreadsheet is a document that has a tabular layout.

It is split into boxes **cells**.

Cells have an address or **cell reference.** A1 and E2 are cell references.

Spreadsheets are used for performing calculations.

A computer user has created a spreadsheet to calculate the price of products after tax has been added.

- Cell A2 is a **text label** as it contains data that ill not be used in any calculation.
- B2 is a numeric variable as the user could change the price. It has currency formatting. This means the user doesn't need to type the £ symbol and pence they will be displayed automatically.
- C2 is another numeric variable, but the is time uses **percentage formatting**.
- Cells D2 and E2 contain **formulas**. These are calculations that always begin with the = symbol. They use cell references in their calculations, so if the data in the cells changes, the answer automatically updates too.

Formula operator	Description
+	Addition
-	Subtraction
*	Multiplication
/	Division

Spreadsheet information

- Use a formula for every calculation. Never do them in your head or use a calculator!
- Spreadsheets are the most useful tool on a computer. Almost everyone can benefit from using them. Learn how to use one!
- 3. There are 17,179,869,184 cells on Excel. That's over 17 billion!



when space key pressed go to x: 0 y: 0 point in direction 90 clear pen down move 50 steps turn (~ 90 degrees move 50 steps

This program draws a

square. The **sequence** of

instructions is important.

If they are in a different

order, the outcome of the program will be different.



This program does exactly the same thing. However, it uses a loop to repeat instructions, making it shorter and therefore easier to edit if necessary. This is known as **iteration**.

Computing: Programming with Scratch



This time the program asks the user how many sides the shape should be. This is known as **user input** and the answer is stored in the variable *sides*.

Once the shape has been drawn, the program **outputs** text to the screen. It joins some text with the value of the variable *sides*. This is known as **concatenation**.



The program has been improved further here. It uses two **variables**, *sides* and *n*.

This makes the program more flexible, by being able to draw shapes of different number of sides.

The number of degrees to rotate has been calculated by an **arithmetic operation**:

360 ÷ sides. We use '/' as the division operator (instead of ÷) in computing.



Finally, the user is given a choice of colours. This part of the program uses a **Boolean expression** to compare the user input with 'r'.

If this is *true* (the users types 'r'), the pen colour is red.

If this is *false* (the user doesn't type `r'), the pen will be blue.

If... else statements are known as **selection**.

DRAMA KNOWLEDGE ORGANISER: YEAR 7

CHARLIE AND THE CHOCOLATE FACTORY	ROALD DAHL	HARRY POTTER
 Students to perform in 'stereotype' linking to the main characters in the book - Charlie Bucket, Mike TV, Augustus Gloop, Violet Beauregarde and Veruca Salt. Using strong physicalisation to represent characters. Using and understanding scripts to perform in an effective way to fully embody the characters. Using role on the wall to fully create and develop a character. Developing the skill of Tableaux. 	 Students will different Roald Dahl stories, The BFG, The Twits, Georges Marvellous Medicines, Matilda and James and the Giant Peach. Using the skills of Physical Theatre, Hot Seating, Conscience Alley, Choral Speaking, Tableaux and Script. Understanding the themes and messages within the different stories. 	 Students to use physical theatre (performing using your body with gesture and movement). Looking at key characters from the book - Harry Potter, Ron Weasley, Hermione Granger, The Dursleys, Snape. Understanding different types of genre within theatre. Looking at stereotypical characters. Marking the moment - showing a significant moment within performance. Using exaggerated movement and gestures to show characters personalities and feelings.
PANTOMIME	SPY SCHOOL	KEY WORDS
 Inspired by Commedia Del Arte and clowning. Originated in Italy. Commedia means "the comedy" Very popular in Shakespearian time. Actors using no script - Improvisation - making up performance on the spot. Started by being performed on the street. Comedic in style - characters are very physical and over the top. Main Characters - Prince, Princess, Dame, Evil Choral elements are vital to this performance style - talking in unison. Singing, dancing and acting are involved. 	 Introduction to practitioner Konstantin Stanislavski and his 'System.' Stanislavski - Father of Modern Theatre born in 1863 from Russia - created Method Acting. Teacher in Role - teacher performing in character to create sense of realism. Naturalism - performance that is like real life. Physical Apparatus - actors voice and body. Hot Seating - questioning actors in role. Magic If - how the actor would feel IF they were in the characters situation. Emotion Memory - Using a past memory to influence your acting. 	 Tableaux Characterisation Body Language Slap stick Stanislavski Commedia Del Marking the moment Stereotypes Physical Theatre Comedy Chorus/Ensemble Naturalism Magic If Emotion Memory Teacher in role Cross-cutting Over exaggeration Setting Script/Plot

EMPLOYABILITY:

Team work, Collaboration, Listening skills, Creative thinking, Leadership, Focus, Concentration, Positivity, Confidence, Self-belief, Self-discipline

Year 7 Cooking & Nutrition Knowledge Organiser

Practical Skills

Skill Group	Techniques
Knife skills	Fruit and Vegetables—bridge hold, claw grip, peel,
	slice, dice and cut into even pieces.
Weigh and	Be able to demonstrate accurate measurement of
measure	liquids and solids.
Use of equipment	Use a grater, vegetable peeler, paring knife,
	saucepans and wok.
Using the hob	 boiling and simmering
	• stir frying
Using the oven	• baking
Make sauces	Make a reduction sauce (pasta sauce)
Test for	Use a knife/skewer, finger or poke test, bite or
readiness	visual colour check to establish whether a recipe
	or ingredient is ready.
Judge and	Demonstrate:
manipulate	 how to taste and season during cooking
sensory	• presentation and food styling—use garnishes &
properties	decorative techniques.

Nutrition – The Eatwell Guide



Equipment





Wok

Measuring Jug

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Hygiene & Safety Rules
Tie up long hair
Wear an apron
Tuck tie in
Washhands
No running
Use oven gloves when necessary
Clean practical equipment thoroughly

Key abbreviations: Weights and Measurements				
L	Litres	Litres		
g	Grams			
ml	millilitres 1000ml=1litre			
Kg	kilograms	1000g		
Tbsp	tablespoons 15ml			
Tsp	teaspoon 5ml			
1pt	1pint 568ml			

Food Labelling

Kitchen

Scales

Each serving (150g) contains

Energy 1046kJ 250kcal	Fat 3.0g	Saturate 1.3g
ZJUKCAI	LOW	LOW
13%	4%	7%

of an adult's reference intake Typical values (as sold) per 100g: 697kJ/167kcal



Key Messages:

- Eat at least 5 portions of fruit and vegetables per day.
- Base meals on potatoes, bread, rice,
- pasta or other starchy carbohydrates.
- Have some dairy or dairy alternatives.
- Eat some beans, eggs, fish, meat and other proteins.
- Choose unsaturated oils and spreads and eat in small amounts.
- Drink 6-8 cups/glasses of fluid per day.





Fish Slice

Vegetable knife



Year 7 Graphic Products Knowledge Organiser

Automata Project

design

technology

Key Skills

- Responding to a Design Brief
- Analysing & researching information
- Creating a suitable idea for a target audience
- Isometric drawing techniques
- Developing CAD drawing skills using:
 - Serif Draw / Techsoft Design
- Rendering techniques
- presentation skills
- Developing & testing
- Manufacturing with modelling materials (card & paper)
- Evaluating the design & making process



IC Products r	\nowleag	e Urganis	ser
	_	_	
_			
FC	DLLOWER	8	
a SL	IDE		
O ← R	OLLER s	SHAFT	
		FOL	LOWER
	EAK	TTA	CRANK
	IAIL/DROP	САМ	
	AM	CAM	
	ERTICAL		-
C C	ENTRE LINE		

Key vocabulary
An written outline which explains the aims and object.
The person or people most likely to be interested in
What a product does, how it works and what it will b
A system of parts working together in a machine.
Something moving or being moved.
A rotating or sliding piece used to transfer rotary m
To present ideas to the user (target audience) or clie
To judge or calculate the quality, importance, amour
Motion moving along a straight line.
Motion moving clockwise or anti-clockwise.



jectives and milestones of a design

your design or product.

be used for?

notion into linear motion or vice versa.

ient.

Int, or value of something

Year 7 Product Design Knowledge Organiser

Catamaran Boat Design

Key Skills

- Responding to a Design Brief
- Identifying a target audience and product function
- Applying Health & Safety procedures and PPE in the workshop environment
- Developing practical skills to create housing & dowel joints to join materials
- Identifying specific workshop tools and equipment
- Manufacturing a prototype model
- **Finishing materials**
- **Presentation skills**
- Evaluating the manufacturing process







Timber is a natural material with imperfections, knots and grain. Remember always sand with the grain



From coniferous trees that are evergreen, which are faster to grow and are less expensive than hardwoods. Softwoods are a sustainable material as the resource can be regrown and not depleted. Softwoods are strong and easy to work with.



He	ealth & s		
Tie long hair back			
Wear an apro	on		
Wear safety	aoaales m		
Move slowly			
Be aware of	where the		
Ensure the ve	entilation is		
Only one pers	son operat		
Report any in	juries or b		
	K		
Design Brief			
	and objec		
	project.		
Function	What a pr will be us		
Target			
Target Audience	The perso		
Materials	intereste What son		
Finishing	The proce		
	protect a		
Wood grain	Wood gra fibres in t		
Modelling	To preser		
	audience		
 Prototype	A prototy		
	see if it is		
	further m		
PPE	Personal		
	such as g		

Bench vice

Marking gauge

File

Pillar drill



safety in the workshop

nust be worn when using machinery

e workshop

emergency stop buttons

is switch on prior to using a machine

ting a machine at one time

preakages to the teacher immediately

Key vocabulary

en outline which explains the aims ctives and milestones of a design

roduct does, how it works and what it sed for?

on or people most likely to be d in your design or product. nething is made from.

ess of applying a finish to preserve or material & improve aesthetics.

ain is the pattern made by the wood trees when it grows.

nt ideas in 2D & 3D to the user (target) or client.

pe is a model that is built to test to s successful or whether it needs

nodification or improvements.

protective equipment are items

goggles and aprons.

Year 7 Textiles Knowledge Organiser

Animal Cushion Design

Key Skills

- Responding to a Design Brief
- Analysing existing products
- Identifying a target audience
- Designing & annotating to include a range of decorative and construction techniques
- Demonstrating ability to complete a range of decorative by techniques by hand:
 - $\,\circ\,$ Embroidery stitches (running stitch,
 - back stitch & blanket stitch)
 - $\circ \text{ Appliqué}$
 - \circ Adding components e.g. buttons or
 - googly eyes
- Using a sewing machine to complete construction techniques to make seams



SEWING Used as a deco	
stitch or for seams. St	itch is 🎚
easy but also not very s	strong. 🔐
RUNNING Stitches should be small &	even.
STITCH	
Back'	ВАСК
Chung hand stitch for holding	
	STITCH
seams together and inserting zippers	
by hand. Stitches overlap on the back.	- 12 1
	Front
	1
	h
BLANKET	
Good stitch for finishing edge	es.
STITCH Stab from bottom up, and w	rap
	9
thread around half exposed	needle
in the direction you are sewi	ng

HAND



Product features		
Creative design that is personalised	A theme that is identifiable and original	
Hand embroidery	Consideration of a specified target market	
Hand appliqué	Components used as decoration	
Components used as decoration	Machine sewing	F

Кеу voc
Being aesthetically pleasi
What something is made f
The parts/materials/threa
What a product does, how
How a product or design l
The person or people mos or product.
Even stitch widths and ler
A decorative technique wh another by hand.
An written outline which milestones of a design pro



Health & safety

ollow teacher instructions

Move slowly around the room do not run

ie long hair back

lold scissors or shears correctly when valking around the room.

eport any injuries or breakages to the eacher immediately

cabulary

ing to the eye.

from?

ads needed to make a product.

it works and what it will be used for?

looks .

st likely to be interested in your design

ngths completed by hand sewn stitches.

hereby one material is sewn on top of

explains the aims and objectives and oject.

Key Knowledge	Definition	Making
ANECDOTE	A short amusing or interesting story about a real incident or person.	My Mark
OPINION	A view or judgement formed about something, not necessarily based on fact or knowledge.	
STATISTIC	A fact or piece of data obtained from a study.	
IMPERATIVE	A command.	
RHETORICAL QUESTION	A question which does not require an answer.	
TRICOLON	A series of three parallel words, phrases, or clauses	KLIMÄTE
DIRECT ADDRESS	Addressing a person or a group of people directly through use of name or personal pronouns.	
HYPERBOLE	Exaggerated statements or claims that are not meant to be take literally.	
PATHOS	Language which makes the audience feel a particular emotion.	Speech: a formal address or
METAPHOR	A figure of speech that implicitly compares two unrelated things, typically by stating that one thing is another	discourse delivered to an audience.
ANAPHORA	The repetition of a word or phrase at the beginning of multiple sentences.	printed communication, sent in an envelope by post or messenger.
ANALOGY	A comparison between one thing and another, typically for the purpose of explanation.	Article: a piece of writing -
GALVANISE	Shock or excite (someone) into taking action	included with others - in a newspaper, magazine, or other print or online
RHETORIC	The art of effective persuasive speaking or writing	publication.



Year 7 Geography Unit 2: Settlement







Year 7 Geography Unit 3: Ecosystems

Plants get their energy from the Sun. They are called **producers** because they make their own food.

Animals are called **consumers** because they eat plants and other animals. They do not make their own food.

Animals that eat other animals are called **predators**. The animals they eat are called **prey**.

Tropical Rainforests

This biome is located on three continents:

- South America
- Africa
- South east Asia

The temperature ranges from 21 to 30 degrees Celsius. Rainfall remains high all year round.

The tropical rainforests are being cut down for the following reasons:

- 1. To sell the wood
- 2. To build on the land
- 3. To find minerals in the ground
- 4. To use the land for agriculture (cattle farming)

This means that:

- 1. Indigenous people lose their homes
- 2. Animals lose their habitat
- 3. Unique plants are lost forever
- 4. Less carbon dioxide is removed from the atmosphere. This will make the world a warmer place to live.





Deserts

Deserts are found along the Tropic of Capricorn and the Tropic of Cancer. The **largest** desert is the **Sahara**.

There is very little biodiversity in hot deserts because of the harsh climate.

In the day, temperatures can exceed 40 degrees Celsius but drop below 0 degrees Celsius at night.

Plant adaptations – Plants have developed special adaptations to survive the harsh climate.

Spines -lose less water than leaves so are very efficient in a hot climate. They also stop animals from eating the plant.

Waxy skin - some leaves have a thick, waxy skin on their surface. This reduces water loss by transpiration.

Polar

Polar biomes, such as Antarctica, are cold and dry all year round. 99 per cent of it is covered by ice.

Antarctica is the 5th largest **continent**, 25 per cent larger than Europe. During the winter, much of the water

During the winter, much of the wa

surrounding Antarctica freezes.

Countries have claimed ownership of parts of Antarctica.

The Antarctic Treaty was agreed in 1961 to help control human activity in the location and also to resolve disagreements over territory.

The biodiversity is low. Emperor penguins live in Antarctica. Polar bears do not!





Definition



	Deminion
Food Chain	A series of organisms each dependent on the next as a source of food.
Biome	A large naturally occurring ecosystem such as tropical rainforest.
Deforestation	The removal of trees.
Adaptation	The process of change by which an organism becomes better suited to its environment.
Sustainable	The process of maintaining a balanced environment. It is where we act in a way to provide for the needs of today without compromising the needs of the future generations.







 \checkmark

Wellington History

Year 7 HT 3 Knowledge Organiser

Why did Europeans go on Crusades to the Middle East?

How did the Mongols create a World Empire?

What and why?

You will learn about the invasions of the Middle East in the Medieval Era and about global trade.

 You will learn about who Genghis Khan was and how the Mongols created the largest land empire.
 Stop, think and link: What motivated other invasions that we've studied?

Want to explore further?

Book: The Silk Roads Illustrated by Peter Frankopan Book: The Boy Knight: A Tale of the Crusades by G A Henty Book: Daily Life in the Islamic Golden Age by Don Nardo Website:

https://www.bbc.co.uk/bitesize/guides/zjbj6sg/revision/1



Key Questions

- What were the Crusades?
- Who fought each other in the Crusades?
- Why was Jerusalem so important?
- Why did people join in fighting in the Crusades?
- What were relationships like between Christians and Muslims?
- What impact did the Crusades have on the world?
- Who was Genghis Khan?
- Where did the Mongols conquer, and how?
- How did the Mongols control their empire?
- Were the Mongols brutal conquerors, or bringers of peace?
- What did Europeans think of the Mongols?

Key events and Key People

1096-1099 First Crusade

- 1147-1149 Second Crusade 1189-1192 Third Crusade 1202-1204 Fourth Crusade
- Pope Urban II (1042-1099) Sent out a call to all Christia
- fight in the name of God to win back the Holy Land from Muslin rule, which they did in 1099.
- Saladin (1137-1193) Muslim General. He recaptured Jerusalem in 1187.

King Richard I "the Lionheart" (1157-1199) - English King won many battles against the Muslim armies but did not recapture Jerusalem.

Genghis Khan (1162-1227): the founder of the Mongol Empire Kublai Khan (1215-1294): Grandson of Genghis Khan, Emperor of China 1260-1294.



	A terrible crime
	Byzantine Empire
	Empire in South-East Europe and Asia Minor (Turkey) which
d	was formed from the Eastern Roman Empire. Its capital was
~	Constantinople (Byzantium).
	Holy Land
	The land sacred to Jews, Christians and Muslims in what was
	ancient Palestine (now Israel, Palestine and Jordan).
	Knight
	A soldier on horseback who serves a baron.
	Massacre
	Killing a large number of people in a violent manner.
	Pilgrimage
	A journey which has religious or spiritual significance, usually
	to an important religious place.
	Pope The Disher of Demo and hand of the Demon Catholic
	The Bishop of Rome and head of the Roman Catholic Church.
ns to	Sin
Muslim	Act of rebellion or disobedience against the known will of
	God in Judaism, Christianity or Islam. Crusade
usalem	An expedition to reclaim the Holy Land.
won	Mongol:
ture	Someone from the Mongolian steppes in Central Asia
cur c	Tribe:
npire	A societal group linked by family ties.

Keywords

Atrocity

Khan:

Ruler



Wellington History

Year 7 HT 4 Knowledge Organiser

What caused Medieval Kings to lose power?



 What and why? ✓ You will learn about how much power Medieval Monarchs had and the events that started to chip away at the power of the Monarch. ✓ You will see how both the barons and the peasants contributed to limit what a Monarch could do and how the Black Death also caused unhappiness. ♦ Want to explore further? Book: Good Masters! Sweet Ladies! Voices from a Medieval Village by Laura Amy Schlitz Book: The Door in the Wall by Marguerite De Angeli Book: Horrible Histories – The Measly Middle Ages by Terry Deary Website: https://www.bbc.co.uk/bitesize/topics/zfphvcw 	 Key Questions What made a good Medieval King? Why was Thomas Becket killed and how was Henry II punished? Why did the Barons rebel against King John? Which other Medieval Monarchs faced rebellions and how did they fair? Why did the peasants revolt in 1381? Who was the best English King of the Middle Ages? Why were Medieval people so powerless against the Black Death? Why was the Black Death so significant? 	Keywords Monarch A King or Queen. Pope Head of the Catholic Church. Archbishop of Canterbury The head of the Church in England. He was appointed by the Pope. King's Courts Law courts which were controlled by the King and his justice. Church Courts These were controlled by the church for religious offences and for any crimes committed by the clergy. Magna Carta The document that King John was forced to sign by the barons in 1215 that limited some of his power. Baron A title of honour given to any nobleman who pledged his loyalty and
	Key events and Key People 1170AD – Thomas Becket murdered in Canterbury Cathedral 1215AD – The barons rebel against King John and force him to sign the Magna Carta 1327AD – The murder of Edward II 1337-1453AD - Hundred Years War between England and France. 1348AD - The Black Death comes to Britain. 1381AD – The Peasants' Revolt. 1455-85AD - The Wars of the Roses (the Cousins' War) between the Houses of Lancaster and York.	service to a Monarch in return for land. Black Death A pandemic (global) disease that killed 1/3 of England's population in the 14 th Century. Freemen Peasants that paid rent to the lord to farm their land, but they weren't 'owned' by the Lord, and could come and go as they pleased. Villein Medieval peasants who were 'tied' to the Lord's land. They had to farm their own land and the land of the Lord. Poll Tax Introduced by King Richard II to pay for the Hundred Years War. Everyone had to pay 4p every year – later increased. Rebel To rise in opposition against a leader Peasants' Revolt A popular revolt in 1381 against the rule of Richard II, his advisors and taxation led by Wat Tyler.

Topic/Skill	Definition/Tips	Example	Non-example
1. Integers	Multiplication can be thought of as repeated addition or scaling the size of something.	$7 \times 4 = 7 + 7 + 7 + 7$ 7 made 4 times greater	
	Multiplier x multiplicand = product	$56 = 8 \times 7$ 56 is the product 8 is the multiplicand 7 is the multiplier	
	Multiplication is commutative and associative.	$8 \times 6 = 6 \times 8$ $2 \times 3 \times 4 = 6 \times 4$ $2 \times 3 \times 4 = 2 \times 12$	
	We can <u>disassociate</u> numbers into separate components to simplify calculations.	$49 \times 6 = (50 - 1) \times 6$	
	The <u>Distributive law</u> allows us to perform an operation over another. The distributive law works commonly with addition/subtraction and multiplication.	$(10+3) \times 6 = 10 \times 6 + 3 \times 6$ $8 \times (20-1) = 8 \times 20 - 8 \times 1$	
	The Chinese grid method can be used for multiplication.	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
	The grid method can be used for multiplication.	50 7 1500 210 400 56	

2.	Equivalent calculations	To find an equivalent calculation, multiply/divide the multiplicand and then do the <u>inverse</u> to the multiplier.	$8 \times 15 = 4 \times 30$	$7 \times 6 \neq 5 \times 8$ $8 \times 6 \neq 4 \times 3$
		To find an adjusted calculation, multiply/divide the multiplicand/multiplier and then do the <u>same</u> to the product.	If $40 \times 6 = 240$, then $20 \times 6 = 120$ $40 \times 60 = 2400$	If $40 \times 6 = 240$, then $40 \times 3 \neq 480$
3.	Negatives	A negative multiplied by a positive produces a negative product.	$8 \times -3 = -24$ $-6 \times 7 = -42$	$5 \times -2 \neq 3$
		A negative multiplied by a negative produces a positive product.	$-7 \times -2 = 14$ $-6 \times -7 = 42$	$-6 \times -3 \neq -9$
4.	Algebra	We can simplify terms by writing as single powers using index laws.	$a \times a \times a = a^{3}$ $b^{4} \times b^{6} = b^{10}$	$a \times a \neq 2a$ $b^2 \times b^5 \neq b^{10}$
		When multiplying, we multiply the numbers and then use index laws.	$4x \times 8y = 32xy$ $6x^2y \times 8x^3y^2 = 48x^5y^3$	$7x^3y \times 6x^4y^5 \neq 13x^{12}y^5$
		We can expand brackets using the grid method.	$4 \boxed{\begin{array}{c c} 2x & -3 \\ 8x & -12 \\ 4(2x-3) = 8x - 12 \end{array}}$	
			$2x \boxed{\begin{array}{c c} 7x & -2y \\ 14x^2 & -4xy \\ 2x(7x - 2y) = 14x^2 - 4xy \end{array}}$	

5.	Decimals	To multiply decimals, we do the integer division and then adjust the calculation.	$7 \times 6 = 42$ $70 \times 6 = 420$ $70 \times 0.6 = 42$ $70 \times 0.06 = 4.2$ $70 \times 0.006 = 0.42$	
6.	Fractions	Multiplying an integer and a fraction can be thought of as repeated addition.	$4 \times \frac{2}{3} = \frac{2}{3} + \frac{2}{3} + \frac{2}{3} + \frac{2}{3} + \frac{2}{3} = \frac{8}{3}$	$5 \times \frac{3}{4} \neq \frac{15}{20}$
		To multiply two fractions, multiply the numerators and multiply the denominators.	$\frac{3}{4} \times \frac{8}{9} = \frac{24}{36} = \frac{2}{3}$	
		Difficult calculations can be simplified by cross- cancelling before multiplying.	$\frac{{}^{3}_{44}}{{}^{44}_{4}} \times \frac{{}^{33}_{5}}{{}^{5}_{1}}$	
			$\frac{15}{44} \times \frac{33}{5} = \frac{3}{4} \times \frac{3}{1} = \frac{9}{4}$	
		To multiply mixed numbers, convert to improper fractions.	$3\frac{1}{2} \times 1\frac{2}{3} = \frac{7}{2} \times \frac{5}{3} = \frac{35}{6}$	

School subjects		Hiah F	requency words		<u>The timetable</u>			
le français	French	à	at		le lundi		on Mondays	
le théâtre	drama	et	and		le mardi		on Tuesdays	
la géographie/la géo		aussi	also		le mercredi		on Wednesdays	
	geography	mais	but		le jeudi		on Thursdays	
la musique	music	très	very		le vendredi		on Fridays	
la technologie	technology	trop	too		le samedi		, on Saturdays	
l'anglais (m)	English	assez	quite		le dimanche		on Sundays	
l'EPS (f)	PE	un peu	a (little) bit	•	À(neuf heures)		A (nine o'clock)	
l'histoire (f)	history	pourqu	•		J'ai (sciences)		I've got (science)	
l'informatique (f)	ICT	parce of car	jue because because		le matin		(in) the morning	
les arts plastiques (m)	art		s jours everyday				· · ·	
le dessin	art	toujour	• • • •		l'après-midi		(in) the afternoon	
les mathématiques/maths (f)	maths	aujouro	•		le mercredi après-		Wednesday afterno	on
les sciences (f)	science	pardon	•		la recréation/la ré	cré	breaktime	
éducation religieuse/la religion	RE	merci	thank you		le déjeuner		lunch	
<u>pinions</u> u aimes/Est-ce que tu aimes? e préfère 'adore	Do you like ? I prefer	The teache			On a course (le lun On n'a pas cours On commence les c On a quatre cours	coursà	We have lessons (or We don't have lesso We start lessons at We have four lessor	ns
aaore 'aime beaucoup	I love I likea lot.	•	f est (trop) sévère.	Reasons				
aime beaucoup 'aime	I like	The teache	r is (too) strict.	C'est	it is	Il est	<u>me is it?</u>	It's
'aime assez	I quite like	- On a beau	coup de devoirs.	intéressan	t interesting	huit heu	res	eight o'clock
e n'aime pas	I don't like	We have a	ot of homework.	ennuyeux	boring	huit heu		five past eight
e déteste	I hate		-	barbant	boring	huit heu		ten past eight
est ma matière préférée.	It's my favour	ite subject.		facile	easy	huit heu	res et quart	quarter past eight
a matière preferée c'est…	My favourite s	ubject is		difficile	difficult	huit heu	res vingt	twenty past eight
aime	He likes			génial	great		res vingt cinq	twenty five past eigh [.]
lle aime	She likes			nul .	rubbish		res et demie	half past eight
	Yes, I like tha	t		marrant	funny		ires moins vingt-cinq	twenty five to nine
ui, j'aime ça	•			amusant	fun/funny	📋 neuf hei	ires et vingt	twenty to nine
on, je n'aime pas ça	No, I don't like	e that		acces hion	•	~ · ·	5	•
on, je n'aime pas ça e suis d'accord	No, I don't like I agree	e that		assez bien	quite good		ures moins le quart	quarter to nine
on, je n'aime pas ça e suis d'accord e ne suis pas d'accord	No, I don't like I agree I don't agree	e that		passionnan	quite good t exciting	neuf heu	ures moins le quart ures moins dix	quarter to nine ten to nine
on, je n'aime pas ça e suis d'accord	No, I don't like I agree	e that			quite good	neuf heu	ures moins le quart	quarter to nine

Computers and mobile phone	<u>s</u>
Qu'est-ce que tu fais ?	What do you do/are you doing?
avec ton ordinateur ?	on your computer ?
avec ton portable ?	on your mobie phone ?
Je joue	I play/ I am playing
Je surfe sur internet.	I surf/I'm surfing the net.
Je tchatte sur MSN.	I chat/I'm chatting on MSN.
Je regarde des clips vidéo.	I watch/I am watching video clips.
Je télécharge de la musique.	I download/I'm downloading music.
J'envoie des SMS.	I text/I'm texting.
Je parle avec mes ami(e)s.	I talk/I'm talking to my friends.
J'envoie des emails.	I send/I'm sending emails.

What do you play ?

Tu es sportif/sportive ?

Je joue	I play
au basket	basketball
au billard	billiards/snooker
au foot(ball)	football
au hockey	hockey
au rugby	rugby
au tennis	tennis
au tennis de te	able table tennis
au ping-pong	ping pong
au volleyball	volleyball
à la pétanque/	aux boules boules
sur la Wii	on the Wii

Je n'aime pas regarder Je déteste parler Connectives and et mais but aussi also cependant however Are you sporty? Je suis (assez) sportif/sportive I am quite sporty Je ne suis pas (très) sportif/sportive I am not (very) sporty)

Examples of

Opinions + infinitives

Je préfère jouer J'adore aller J'aime faire

Mon sportif/Ma sportive préféré(e) est...My favourite sports Person

is...

<u>Conjugation of</u> <u>regular -er verbs</u>	<u>The verb jouer=</u> <u>To play</u>
-е	Je jou e
-es	Tu jou es
-е →	Il/Elle/On jou e
-ons	Nous jou ons
-ez	Vous jou ez
-ent	Ils/Elles jou ent

Frequency words (How often)

quelquefois	sometimes
souvent	often
tous les jours	every day
tous les soirs	every evening
tout le temps	all the time
de temps en temps	from time to time
une fois par semaine	once a week
deux fois par semaine	twice a week

Quand? When?

en été en hiver quand il y a du soleil guand il fait beau guand il fait chaud guand il pleut guand il fait froid le soir le weekend le samedi matin

in summer in winter when it's sunny when it's good weath when it's hot when it rains/is raining when it's cold in the evening on the weekend(s)

on Saturday morning(s) Qu'est-ce que tu aimes ? What do you like? Qu'est-ce que tu aimes faire/jouer...? What do you like to do/play...?

	<u>Qu'est-ce que tu fais ? W</u>	<u>/hat do you do ?</u>					
	Je fais du judo	I do judo					
	Je fais du parkour	I do parkour					
	Je fais du patin à glace	I do/go ice skating					
	Je fais du roller	I do/go roller-skating					
	Je fais du skate	I do/go skateboarding					
	Je fais du vélo	I do/go cycling					
	Je fais de la danse	I do dance					
	Je fais de la gymnastique	I do gymnastics					
	Je fais de la natation	I do/go swimming					
	Je fais de l'équitation	I do/go horseriding					
	Je fais des promenades	I go for walks					
Ľ	Lich fragman words						
	High frequency words						
	sur	on					
	en (été)	in summer					
	quand	when					
ne	tout/toute/tous/toutes	all					
	par (deux fois par semaine)	per (twice a week)					
	d'habitude	usually					
	d'abord	first of all/firstly					
	ensuite	then/next					
	puis	then/next					
	What do you like doing?						
	J'aime	I like					
ner …retrouver mes amis		meeting my friends					
regarder la télé		watching TV					
ing	jouer sur ma PlayStation	playing on my					

- ...écouter de la musique ...faire les magasins ...faire du sport
- ...jouer au football
- ...traîner avec mes copains
- ...téléphoner à mes copines...
- Playstation ...listening to music ...going shopping ...doing sport ...playing football ...hanging out with my

...phoning my mates.

mates

Year 7 German Knowledge Organiser: HT3 Me and Others

Body Parts	
der Arm	arm
der Bauch	stomach
das Bein	leg
der Ellenbogen	elbow
der Fuß	foot
das Gesicht	face
die Hand	hand
das Knie	knee
der Kopf	head
die Nase	nose
Ohren (pl)	ears
der Rücken	back
die Schulter	shoulder
groß	big, tall
gut aussehend	good-looking
klein	small
muskulös	muscular
pummelig	chubby
schlank	thin

Was sind deine Lieblingstiere?

Hast du ein Haustier? Do you have a pet?					
Ich habe kein Haustier.	I don't have a pet.				
der Fisch	fish				
der Hund	dog				
der Kanarienvogel	canary				
das Kaninchen	rabbit				
die Katze	cat				
das Meerschweinchen	guinea pig				
das Pferd	horse				
die Schlange	snake				
das Tier	animal				
der Vogel	bird				

	Opinions			<u>Pronuncia</u>	<u>tion Tip</u>		
	Ich mag/Ich mag (g	ar) nicht I like/I don't like (at all)		<u>Letters</u>	<u>Sou</u>		
	Ich liebe	I love		ei	eye		
	Ich hasse	I hate		ie	ee		
	aber	but		_	f		
	und	and		V			
	oder	or		W	V		
Wie s	iehst du aus?	What do you look like?	Connective	s and qualifier	rs		
	ieht er/sie aus?	What does he/she look like?	oder	or			
	ind deine Augen?	What are your eyes like?	und	and			
	ind deine Haare?	What is your hair like?	aber	but			
blond		blond	ein bissch	en a bit			
glatt		straight	nicht so not very, not so				
kurz s lang la		short vielleic		perha			
		long	sehr very				
		curly	ziemlich	quit			
mittel	5	medium-length		1			
der Bo		beard	<u>Key verb</u>				
	chnurrbart	moustache	HABEN =	to have			
	ersprossen (pl)	freckles	Ich habe	I have			
blau		blue	Du hast	you have			
braun		brown	Er hat	, he has			
gelb yell		yellow	Sie hat	she has			
grau		grey					
grün		green	Key verb				
orange orange rot red		orange	SEIN = to be				
		red	Ich bin	I am			
schwarz black		black	Du bist you are				
violett	t	purple	Er ist	he is			
		white	Sie ist	she is			

Year 7 German Knowledge Organiser: HT4 Freetime and Hobbies		Das mache ich gern!	Adverbs
Sport macht Spaß! Welche Sportarten machst du? der Sport die Sportart Ich gehe/mache/spiele/tanze angeln gehen Ballett tanzen Basketball spielen Federball spielen ins Fitnesscenter gehen Fußball spielen	Which sports do you do? sport type of sport I go/do/play/dance to go fishing to dance ballet to play basketball to play badminton to go to the gym to play football	Was machst du in deiner Freizeit? What do you do in your free time?bastelnto do crafts einkaufen geheneinkaufen gehento go shopping faulenzenfaulenzento lounge/laze about fernsehento watch television ins Kino gehento go to the cinema lesenlesento read malenmit Freunden chattento chat/text with friends Musik hörenMusik machento play/make music	ab und zu now and then
Gymnastik machen joggen Judo/Karate machen Rugby spielen schwimmen gehen Tennis spielen Yoga machen Wie findest du?	to do gymnastics to jog to do judo/karate to play rugby to go swimming to play tennis to do yoga How do you find?	Rad fahrento ride a bike, to cycleSkateboard fahrento go skateboardingSki fahrento skiSnowboard fahrento snowboardtanzento danceVideospiele spielento play video games	Ich spieleI playdie Geigeviolindie Gitarreguitardas Klavierpianodas Musikinstrumentmusicalinstrumentdas Schlagzeugdie Trompetetrumpet
Es ist anstrengend entspannend schwierig Es macht Spaß. Es gefällt mir nicht. anstrengend entspannend schwierig Es macht Spaß. Es gefällt mir nicht.	It is tiring relaxing difficult It is fun. I don't like it. tiring relaxing difficult It is fun. I don't like it.	Was für Musik hörst du gern? die Musikart die elektronische Musik die klassische Musik der Schlager der/die Komponist/Komponistin das Lieblingsstuck das Lied Liedtexte (pl) die Melodie der/die Sänger/Sängerin singen	type of music electronic dance music, electronica classical music German pop composer favourite piece (of music) song song lyrics melody singer to sing
Was machst du oft/nie? ausruhen/chillen die Familienzeit die Schularbeit zocken zuhause bleiben	What do you often/never to relax family time school work to game/play video games to stay at home	die Stimme aggressiv hart inspirierend	voice aggressive harsh inspiring beautiful Do you play an instrument? I am not musical.

Wellington School Music Department	Music Year 7 Knowledge Organiser: Classical Traditions					LOOKS LIKE	SOUNDS LIKE	DURATION	NAME
						0	LI-I-I-ME	4	SEMIBREVE
¢.						GRA-PE	2	MINIM	
String	Wind	Brass	Percu	ission	Keyboard		PEAR		
Violin	Piccolo	Trumpet	Tim	pani	Keyboard		7	1	CROTCHET
Viola	Flute	French Horn	Tamb	ourine	Piano			-	CROTCHET
Cello	Oboe	Trombone	Tria	ngle	Harpsichord				
Double Bass	Cor Anglais	Tuba	Casta	anets	Organ		APP-LE	1/2	QUAVER
Harp	Clarinet		Side	Drum	Synthesiser			1/2 EACH	(USUALLY GROUPED IN
	Bassoon		Xylophone						2S)
Baroque (160	Baroque (1600-1750) Classical (1750-1820) Romantic (1820-1899)								0
Bach H	Bach Handel Mozart Haydn Beethoven			Tchaikov	sky Chopin Liszt		2 📕 🕻		N
 Small ensembles Mainly string Vocal Music Mainly string orchestra with some wind and brass More use of dynamics 		More eChroma	wind and brass extreme dynamics atic chords Rubato (playing	Schubert	zart Verdi Verdi Gershwin Gershwin Bach	Beeth	Hayda.		

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Wellington School

Year 7 Unit 2: Relationships

KNOWLEDGE

R1. about different types of relationships, including those within families, friendships, romantic or intimate relationships and the factors that can affect them **R2.** indicators of positive, healthy relationships and unhealthy relationships, including online

R3. about the similarities, differences and diversity among people of different race, culture, ability, sex, gender identity, age and sexual orientation

R4. the difference between biological sex, gender identity and sexual orientation

R5. to recognise that sexual attraction and sexuality are diverse

R6. that marriage is a legal, social and emotional commitment that should be entered into freely, and never forced upon someone through threat or coercion

R9. to clarify and develop personal values in friendships & relationships

R10. the importance of trust in relationships and the behaviours that can undermine or build trust

R13. how to safely and responsibly form, maintain and manage positive relationships, including online **R14.** the qualities and behaviours they should expect and exhibit in a wide variety of positive relationships (including in school and wider society, family and friendships, including online)

R19. to develop conflict management skills and strategies to reconcile after Disagreements **R21.** how to manage the breakdown of a relationship (including its digital legacy), loss and change in relationships

R22. the effects of change, including loss, separation, divorce and bereavement; strategies for managing these and accessing support

R35. the roles and responsibilities of parents, carers and children in families

R36. the nature and importance of stable, long-term relationships (including marriage and civil partnerships) for family life and bringing up children
R38. to recognise bullying, and its impact, in all its forms; the skills and strategies to manage being targeted or witnessing others being bullied
R39. the impact of stereotyping, prejudice and discrimination on individuals and relationships
R40. about the unacceptability of prejudice-based language and behaviour, offline and online, including

sexism, homophobia, biphobia, transphobia, racism, ableism

and faith-based prejudice

R41. the need to promote inclusion and challenge discrimination, and how to do so safely, including online

<u>SKILLS</u>

1. Engage with and reflect on different ideas, opinions and beliefs to help develop personal opinion.

2. Can express and explain opinions through discussion and written work.

3. Develop empathy with others and an understanding of how to safely and respectfully interact.

4. Is reflective about the knowledge and skills needed for setting realistic targets and personal goals.

5. Work individually and with others to negotiate, plan and take action.

6. Can recognise and reduce risk,

minimising harm and getting help. 7. Develop skills of enquiry and advocacy via research and group work







Y7: REP Term 2

68% of the worlds population have stated that they have some belief in God or would claim to have some element of religious faith. Religion remains an important feature of our world and has been part of our lives for thousands of years. However, are we now at a crossroads where religions are often misunderstood, are misused and some would argue in decline. You are going to consider a variety of different religious, ethical and philosophical ideas to consider why religion is still important and the role it continues to play in the world today in shaping our views.

Knowledge Organiser Basics of REP The World

Big Questions Morality

Lesson 13-14

What does it mean to be an atheist or agnostic?

Can you understand why some may choose to be a theist and an atheist?

What are the alternatives to having a faith?

Lesson 19-20

What makes you, you?

Can you explain and discuss different beliefs about what makes us, who we are? This Include religious views on the soul and self.

<u>Lesson 15-16</u>

How was the world made?

Can you give arguments to suggest that God is responsible for creating the world?

Can you give arguments to suggest that creation has nothing to do with God or a divine being?

Lesson 21-22

The Ten Commandments: Do we need laws and rules?

Can you explain why these rules may be seen to be important or unimportant in society today?

<mark>Lesson 17-18</mark>

Should we care about the world?

Can you give examples of how we are harming our planet and what religious groups believe we should do about this?

Lesson 23-24

Stereotyping and Prejudice: Are there enough good Samaritans?

Can you define the terms prejudice & discrimination and identify examples of this and what we can do to prevent them from happening? Can you link this to and describe the story of the Good Samaritan?

*Pupils will be assessed in lessons and complete an extended project on a religion of their choice. They will complete a formal examination at the end of the year.

7C2	<u>Properties of metals</u> Metals are good conductors of heat and electricity, have a high			
Elements and compounds	density, melting and boiling points. They are sonorous, malleable and ductile.			
Atoms, Molecules, Elements, compounds and mixtures An atom is the smallest particle of a chemical element that can exist. Molecules form when two or more atoms form chemical bonds with each other. An element is a substance that contains only one type of atom. A compound is a substance containing two or more elements chemically bonded together. A mixture is a substance containing two or more elements/compounds, not chemically bonded.	Chemical and physical changes Chemical changes occur when elements and compounds combine to form a new substance. The change is permanent. Physical changes occur without forming new substances. This are not permanent and are reversible. Gas given off Smell Chemical Change Temperature change Colour change Colour change Formation of a solid.			
Elements and the periodic table Dmitri Mendeleev created first version of the modern periodic table. Elements are arranged into periods (horizontal) and groups (vertical) on the periodic table. Each element has a unique chemical symbol. Elements are either metals or non-metals. TRENDS can be found in properties along periods and down groups.	Properties of compounds Compounds have very different properties to the elements from which they are made. This is because the atoms are joined together differently.			
He Non-Metals Be Non-Metals Be Li Be Be Mag Mag Mag Be Sator Non-Metals Be Sator Non-Metals Be Be Sator Non-Metals Be Be Sator Non-Metals Be Sator Non-Metals Be Sator Non-Metals Non-Metals Be Sator Non-Metals Be Sator Non-Metals Non-Metals Be Sator Non-Metals Non-Metals Be Sator Non-Metals Non-Metals Non-Metals Non-Metals Be Sator Non-Metals Non-Metals <td>$\begin{array}{ccc} carbon & oxygen & carbon dioxide \\ (element) & (element) \\ C_{(S)} & O_{2(g)} \\ \hline$</td>	$\begin{array}{ccc} carbon & oxygen & carbon dioxide \\ (element) & (element) \\ C_{(S)} & O_{2(g)} \\ \hline $			
Rb rubidum Sr strontum Y strum Zr sitoonum Nb rubidum Mo nob/denum TC technetium Ru rubinium Pd rubidum Ag site Cd site In rubidum Sn tindum Sn tindum	Rusting is a type of chemical reaction when oxygen reacts with iron			



Year 7 P2 Waves Lesson 1



