

Year 9

Knowledge Organiser Spring Term (2) 2023

What you need to know!

Knowledge Organisers – FAQ

What is a Knowledge Organiser?

Every ½ term this academic year, a new Knowledge Organiser will be produced and put on the school website. These documents are produced for Year 7, Year 8 and Year 9 students and contain key information, specific subject terminology and links to additional resources to help you and your child fully understand topics within the different subject areas.

Can Knowledge Organisers be used for revision and preparing for assessments?

These Knowledge Organisers are designed around the content delivered in lessons each half term in Year 7, 8 and 9. Therefore, they are an excellent revision tool to help prepare your child for end of unit tests as well as their end of year exams which cover previously learned subject content.

How should I use the Knowledge Organiser?

In order that these documents are useful and not too complicated, the Knowledge Organiser is designed to include the basic facts and information being covered in a specific subject over that half term. You may choose to print a version in order that you annotate or tick off aspects once they are fully understood. You may also choose to use this as an electronic revision guide, using the hyperlinks to webpages to secure or deepen understanding.

What are the Arrow Tasks?

At Liskeard School & Community College, teachers use Arrow Tasks as a way of stretching your child. These tasks often involve extending their knowledge through research or applying a learned concept in another way. Try to complete all the Arrow Tasks within the Knowledge Organiser to increase your knowledge and extend your conceptual understanding.

Contents

Art Drama English Ethics, Philosophy and World Views French Geography History ICT and Computer Science Maths Music Physical Education Science Spanish Technology: Product Design Technology: Textiles Technology: Food A guide to revision strategies

Please note: These subjects are hyperlinked. Click on the subject to take you to the relevant pages.

Topic: Shape, Abstraction and Signification. Silhouettes, motifs or letter forms.

I need to know: How understanding is created and how understanding is communicated. Through 'Semiotics', understand how signs and symbols are culturally mediated.

Key Words	Definitions
Sign	A sign is an object, quality, event, or entity whose presence or occurrence indicates the probable presence
	or occurrence of something else. A natural sign bears a causal relation to its object—for instance, thunder
	is a sign of storm, or medical symptoms a sign of disease.
Symbol	A symbol is a mark, sign, or word that indicates, signifies, or is understood as representing an idea, object,
	or relationship. Symbols allow people to go beyond what is known or seen by creating linkages between
	otherwise very different concepts and experiences.
Signify	The terms signified and signifier are most commonly related to semiotics, which is in dictionaries as "the
	study of signs and symbols and their use or interpretation".
Semiotics	Refers to the study of how we see the world, and of understanding how the landscape and culture in which
	we live has a massive impact on all of us unconsciously. Our actions and thoughts – what we do
	automatically – are often governed by a complex set of cultural messages and conventions, and dependent
	upon our ability to interpret them instinctively and instantly.
Syntax	The way in which linguistic elements (such as words) are put together to form constituents (such as
	phrases or clauses).
Leading	Leading is a typography term that describes the distance between each line of text. The name comes from
Kawaina	a time when typesetting was done by hand and pieces of lead were used to separate the lines.
Kerning	In typography, kerning is the process of adjusting the spacing between letters, usually to achieve a visually pleasing result.
Rubbing	A rubbing is a reproduction of the texture of a surface created by placing a piece of paper or similar
Rubbillg	material over the subject and then rubbing the paper with something to deposit marks.
Frottage	While superficially similar to rubbing and other forms of rubbing intended to reproduce an existing subject,
TTOLLage	frottage implies using this rubbing technique to create a new, original image.
Stencilling	Stencilling produces an image by applying pigment to a surface through holes cut in thin sheet.
Analogy	A comparison between one thing and another, typically for the purpose of explanation or clarification.
Allegory	A story, poem, or picture that can be interpreted to reveal a hidden meaning, typically a moral or political
7	one.
Metaphor	A metaphor is a figure of speech that, for rhetorical effect, directly refers to one thing by mentioning
	another. It may provide clarity or identify hidden similarities between two ideas. Metaphors are often
	compared with other types of figurative language, such as antithesis, hyperbole, metonymy and simile.
Codes /	A code is a set of conventions or sub-codes currently in use to communicate meaning. The most common is
Conventions	one's spoken language, but the term can also be used to refer to any narrative form: consider the colour
	scheme of an image (e.g. red for danger), or the rules of a board game (e.g. the military signifiers in chess).



Ceci n'est pas une pipe.

René Magritte's 'The Treachery of Images'. What you're looking at is not a pipe. It's a print of a digital image of a photograph of a painting of a pipe.



Frottage is a Surrealist and 'automatic' method of creative production that involves creating a rubbing of a textured surface using a pencil or other drawing material. Surrealist automatism is a method of art making in which the artist suppresses conscious control over the making process, allowing the unconscious mind to have great sway. Max Ernst used a frottage technique to develop many textures in his drawings.

Arrow Task: Research and present a study into a sign that changes meaning. i.e. In the west, the thumbs up sign means everything is OK. This dates back to its use by Roman emperors to signal whether a gladiator should live; its reverse, thumbs down, signified death. In scuba diving this sign means go up to the surface, and by the side of the road it means you want to hitch a lift. In other words, we need to understand the context in which a sign is communicated in order to comprehend its real meaning.

Links to further resources: https://www.tate.org.uk/art/art-terms

Subject: Art and Design

Year: 9 Spring Term

Topic: Shape, Abstraction and Signification. Silhouettes, motifs or letter forms.



Cueva de las Manos, Perito Moreno, Argentina. The art in the cave is dated between 13,000–9,000 BP (Approx 7300 BCE), stencilled, mostly left hands are shown.



Joseph Kosuth. One and Three Chairs, 1965.



Keith Haring.



Monumental brass rubbings are a fun way of exploring, recording and interpreting history.



Neville Brody.



Robert Indiana



Michael Nelson Jagamara's Five Stories, 1984.



Jasper Johns. 0 through 9.



Banksy.

Thinking, questioning and communicating your visual intelligence using practical skills in ART. You will be able to organise your thoughts, understanding and expertise in ART this term under the following headings.

Skills: Manual dexterity, cutting, registering, frottage rubbing, measuring. **Contexts:** History, reasoning, ideas, connections, representations, interpreting, inferring, hypothesising.

Rules: *Visual analysis, exploring juxtaposition, understanding codes and conventions.*

Audience: *Multi-media, social media, politic, interaction, personal, commercial, ethical, moral, cause.*

Resolution: Selection of appropriate media, placement, first hand and appropriated sources, scale, juxtaposition and social comment, decision making, style vs technique, form vs function.

Communication: *Question, interpret, discuss, challenge, critique, represent, notions of truth, analyse, evaluate, talk, show.*

Legacy: *Material, pigment, permanence, honesty, heritage, culture, accuracy, pollution, digital footprint.*

Throughout the year we will be asking you to articulate (to say, explain and use), a number of *Personal, Learning and Thinking skills* to help you develop your knowledge and understanding. This term we will be asking you to reflect upon your: **Independent Learning.** Identify questions, research, explore issues, evaluate different perspectives, influences, reasoned arguments and evidence.

Further thinking (why does this matter?):



On a functional level, it is important to us all that we understand this sign to mean 'One Way' (Semiotics). (The road signage system created by London designers Jock Kinneir and Margaret Calvert was launched and used on all British roads on 1 January 1965).

On a more complex, subtle level, understand that **"Good design is often invisible". "Good art facilitates questions".** Cultural intelligence supports appreciation and tolerance. Artists, designers and performers mediate our entire lives, often subconsciously; their work, woven into the fabric of our choices and directions in our daily lives. Needless to say it has enormous, far reaching impact, not least, economic. Follow the link for some info graphics: https://www.thecreativeindustries.co.uk/resources/infographics

Subject: Drama

Topic: Comedy

Key words	Definitions
Comedy	A genre of performance that aims to make the audience laugh.
Character comedy	A style of comedy that starts with a stereo-typed character
Stand-up	A style of comedy with one person delivering jokes or stories for comic effect
Satire	A style of comedy that highlights a serious topic by making it funny / ridiculous
Parody	A comedy that mocks a well known element of life.
Dark Comedy	A style of comedy that aims to change the audience for the better by getting them to laugh at a 'taboo' topic.
Caption / meme	Comedy that works in visual form with a caption that was not originally intended for the image.
Comedian	The person who is delivering the comedy
Sitcom	Situation comedy that focuses on one group of people in one place / area.
Audience	In comedy, you must consider your audience very carefully.
Convention	An element of content or technique that is crucial for a particular style.
Script	The written form of performance work – preparation for a performance.

I need to know: What the conventions are for the major styles of comedy and how to use them in a practical and written format.

Arrow Tasks:

1: Consideration of audience – list the key features of your audience and connect them to the decisions you have made for performance.

Year: 9 Spring.

2: Analyse the performances that you watch.

3: Watch a wide range of comedy examples and experiment with your own versions.





COMEDY

Wider Reading

- Comedy Writing by Gene
 Perrett
- One Man, Two Guvnors by Richard Bean
- Stand-up comedians on YouTube
- 39 Steps Play by Patrick Barlow
- Fancy a career in comedy: https://www.bbc.co.uk/progr ammes/p03hfdlv

<u>What We Do:</u>

- Explore key styles of the comedy genre, on stage and screen: dark comedy, character comedy, sitcoms, satire and parody, caption comedy and stand-up.
- Experiment with conventions of the different styles.
- Watch and analyse examples of the different styles.
- Experiment with our own versions of the styles in written, comic and performance situations.
- Explore and learn about the impact on the audience and the relationship between target audience and content.

Links to further resources: <u>https://www.youtube.com/watch?v=kEs8rK5Cqt8</u> – Use of emphasis in speech. <u>https://www.youtube.com/watch?v=CFXqyl4C1J4</u> – vocal warm up with National Theatre

Subject: English

Year: 9

Topic: Love and relationships poetry (GCSE text)

I need to know how to respond to different types of poetry. I need to know what to look for and how to analyse key words and techniques in a poem. I also need to begin to think about comparing the poems' themes and ideas.

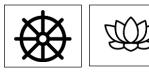
Key Words	Big questions of the texts	Poems:
Alliteration: two words starting with the same sound Stanza: each section of a poem Simile: a comparison of two objects using like or as Metaphor: a comparison of two objects which isn't literally true Persona: the character in a poem Sonnet: a 14 line love poem with a particular rhyme and rhythm pattern Rhyme: two words ending in the same sound pattern Rhythm: the beat of the line	 How do readers use titles and details to understand a story or poem? How do readers identify sequence; compare; contrast? How do readers make inferences about the characters, plot, and setting? How do readers figure out the message or moral or theme of a story or poem? How do readers understand more about a story depending on who narrates? What choices does a writer make to accomplish the purpose of the writing? 	Mother, Any Distance' by Simon Armitage 'Follower' by Seamus Heaney 'Walking Away' by Cecil Day Lewis 'Sonnet 29' by Elizabeth Barrett Browning 'Love's Philosophy' by Percy Bysshe Shelley' 'Before You Were Mine' by Carol Ann Duffy Key themes Secret, forbidden love Regret Pain, loss, death Anger Nature Reconciliation Joy Family Bonds Desire, passion Unrequited love

Suggested activities:

- Think about which poems link naturally together what common themes do they have?
- Why has the poet chosen the layout that they have? How does it represent the subject matter of the poem?
- Research the background context for any of the poems what can you find out about the poems and poets?
- Identify important quotations from each of the poems and begin to analyse why they're important and what they reveal.

Links to further resources: <u>https://www.bbc.co.uk/bitesize/topics/z4nc87h</u> <u>https://mrbruff.com/wp-content/uploads/2019/10/Love-and-Relationships-worksheets.pdf</u> <u>https://padlet.com/MrDowling/LoveandRelationships</u>

Year 9: Spring term 1



Topic: Should happiness be the purpose of life?

I need to know:

- Compare and explain different ways to happiness (Christian, Buddhist and non-religious).
- ٠ How Christians use the Bible in deciding what the purpose of life is.
- Explain how Buddhists use teachings of the Buddha and • other sources in deciding what the purpose of life is.
- Show how beliefs and teachings can affect people's views ٠ on whether or not it is important to achieve happiness.
- How research findings can affect people's views whether • or not it is important to achieve happiness.

Key Words and Definitions

- Happiness A state of well-being and • contentment. A pleasurable or satisfying experience.
- Asrey Used in the Old Testament • meaning 'happy' or 'blessed'.
- ٠ Makarios - Used in the New Testament meaning 'happy' or 'blessed'.
- Dharma 'Universal law' or 'ultimate ٠ truth'. The teachings of the Buddha.
- Dukkha 'suffering', • 'unsatisfactoriness' or 'imperfection'.
- Samsara The circle of life, Birth, . death, rebirth.
- Karma Intentional actions have . consequences in this and future lives.
- Nibbana the state of secure peace • that results after removing cravings and desires.
- **Utilitarianism** An action is morally • right if the most amount benefit from it.

Categories for happiness include: Emotions, purpose, pleasure, flourishing in life, something beyond the material world and satisfaction.

Buddhism – The Four Noble Truths (happiness)

- 1. Life is characterised by Dukkah. There is much discontentment in the world.
- 2. Humans cause discontentment through craving and hatred.
- 3. We need to be aware of our craving and hatred and not allow them to drive our actions.
- Follow the middle way (The Noble Eightfold Path). The end result will be a state of happiness and peace (Nibbana).

Buddhism - The Noble Eightfold Path (action for happiness)

Wisdom

- Right understanding of life and Dharma .
- Right intention having the right attitude and motivation)

Morality

- Right speech. Speak positively to and about other. •
- Right action. Have positive relationships and behave well.
- Right livelihood. Have a job that makes a positive contribution.

Mental Training

- Right effort to make all thoughts and actions worthwhile.
- Right mindfulness and ensuring you are alert to what is ٠ going on inside and around you.

Christianity

The Bible uses the terms *asrey* in the Old Testament and *makarios* in the New Testament. Both can be translated as 'happy', although many translations use the word 'blessed' instead. This would indicate that happiness is a gift from God. Two key ideas...

happiness in relationship with God. ٠

happiness derived from action. ٠

Happy are those who respect the LORD, who want what he commands. Psalm 112.1

Happy are those who consider the poor. Psalm 41:1 Happy are all who take refuge in God. Psalm 2:12

The Sunday Assembly

This is a non-religious (secular) gathering of people, which aim to replicate a Church – but without any faith in God. For example, they may sing uplifting songs and have an inspirational talk. The first took place in London in 2013.

Utilitarianism

Jeremey Bentham was the founder of Utilitarianism. Utilitarianism is an approach to ethics and to making moral decisions. It is based on the principle, the greatest happiness of the greatest number. A moral decision or action is right, if it results in the greatest number of happiness of people in a group or society.



Action for happiness

campaign

.

٠

٠

.

.

٠

Giving

Relating

Exercising

Awareness

Trying out

Direction

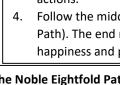
Resilience

Acceptance

Emotion

Meaning

Arrow Tasks You could enhance your learning by visiting one of the suggested websites regarding happiness such as https://www.bbc.co.uk/newsround/49487510 http://worldhappiness.report/ www.sundayassembly.com/ Evaluation guestion challenges – "It is possible to achieve happiness by practising the Noble Eightfold Path in the twenty-first century'.' Discuss. 'Happiness should be the purpose of life.' Discuss. 'Unhappiness is caused by cravings and selfishness.' Discuss.



Year 9: Spring term 2



Topic: How are Sikh teachings on equality and service put into practice today?

I need to know:

- The key beliefs of Sikhism.
- The life of Guru Nanak and it's importance today.
- The Gurus and their importance for Sikhs living in Britain today.
- How Sikhs interpret the Mool Mantar and what it tells them about God, life and how to live.
- How and why Sikhs put their beliefs into action in different ways.
- How beliefs and teachings guide Sikhs in responding to the challenges of life in Britain.
- How Sikh teachings on equality and service put into practice today?

Key Words and Definitions

- **Guru** moving from darkness (gu) to light (ru).
- Khanda the Sikh symbol which is a double-edged sword.
- The Guru Granth Sahib The Sikh holy book.
- Gurdwara the Sikh place of worship.
- Mool Mantar A poem by Guru Nanak describing God.
- Sewa selfish service to others.
- Gukta Prayer book.
- Langar A kitchen where vegetarian food is prepared for free.
- Nam Simran meditation on God's name
- Kirat karna hard work.
- Vand chhakna sharing, charitable giving.
- Gurmurkhi the language developed by Guru Nanak.

The Five Ks -These are five items worn for Sikhs to show their faith. This was instructed by Guru Gobind Singh to the Khalsa. 1) Kesh – uncut hair. 2) Kara – a steel bracelet/ bangle. 3) Kangha – a wooden comb. 4) Kirpan – steel sword 5) Kachera – cotton shorts. Guru Nanak was born in 1469 and died in 1539. He was the founder of Sikhism. Following Guru Nanak there were nine other Gurus that led Sikhism until 1708. The last of the Ten Gurus was Guru Gobind Singh.

The Ten Gurus

- Guru Nanak the founder of Sikhism.
- Guru Angad taught people to read the script that Nanak used to record hymns.
- Guru Amar Das worked for the rights of women
- Guru Ram Das helped to reorganise the religion and the city that became Amritsar.
- Guru Arjun Dev Built the Golden Temple.
- Guru Hargobind Freed 52 prisoners of conscience and designed the Sikh flag, the Nishan Sahib.
- Guru Har Rai Collected plants, rare species. An expert in medicine.
- Guru Har Krishan He died as a child while he served people with cholera and smallpox during a pandemic.
- Guru Tegh Bahadur he led a nation-wide nonviolent protest movement against new laws. He was executed in 1675 for defending the right of non-traditional Muslims and non-Muslims to practise their beliefs.
- Guru Gobind Singh Finalised the Sikh scriptures and founded the khalsa in 1699. The Khalsa are a dedicated religious group that Sikhs can join.

All Gurus achieved liberation (mukti).

The story of Guru Nanak

Guru Nanak was the first Guru of the Sikhs. Although he was born into a Muslim family he didn't want to be tied to the Hindu faith. Even at the age of 13, he refused to take the Scared Thread ceremony, which was the most important ceremony for Hindu boys. His best friend Mardana, was a Muslim.

When Nanak was 30 years old (1499), he went to bathe in a river and disappeared. Many thought he was dead but he returned three days later. When he reappeared in the same spot where he disappeared, his face was said to have had a special glow. His first words were: *'There is no Hindu, there is no Muslim'*. He said there was one true God. He claimed he had been taken into the presence of God. He said he had been given direct knowledge about God, life and reality.

Nanak had achieved liberation (mukti). He gave away all his possessions to the poor. He travelled over 30,000 miles to spread the message.

Sikh's three duties:

- 1. Nam Simran -meditation on God's name.
- 2. Kirat karna hard work
- 3. Vand chhakna sharing and charitable giving.

In Sikhism, God is called the Real Guru.

The Sikh path of life

Do not be self-centred (manmukh) but be God-centred (gurmukh). Overcome the ego (haumai) by living according to the will of God (hukam). This will enable a person to escape from the cycle of life, death and rebirth (samsara) and achieve liberation (mukti).

Arrow Tasks You could enhance your learning by visiting one of the suggested websites such as https://www.bbc.co.uk/bitesize/topics/zws4d2p, https://www.bbc.co.uk/bitesize/guides/znnmtv4/revision/2 (on the Mool Mantar), https://www.bbc.co.uk/bitesize/guides/znnmtv4/revision/2 (on the Mool Mantar), https://www.bbc.co.uk/bitesize/guides/znnmtv4/revision/2 (on the Mool Mantar), https://www.youtube.com/watch?v=zi6i_fNEgZU (sewa). Find out how did Sikhs help in the UK during the covid-19 pandemic?

Subject: French

Year 9: Spring Term 2

It is necessary/one must

"il faut" means "you must/you have to/we need to".

It is followed by the infinitive

Eg: il ne faut pas acheter de chocola = we don't need

Eg: II faut acheter du lait = you need to buy milk

"Il ne faut pas" means "we don't have to"

There will be more specific vocabulary.

This will be given to you by your class

Topic: Chez moi, chez toi

I need to be able to: talk about where you live, your home, what you have for meals, special occasions.

Key Words	Definitions
Verb	Words which tell you the action
Subject	Words that tell you who is doing the
pronouns	action.
Noun	A place, person or a thing.
Gender	In French, nouns and adjectives can be
	either masculine or feminine.
Adjective	Words which describe nouns.
	In French adjectives are the same gender
	as the noun which they describe.
Definite	'the'
article	
Indefinite	'a' 'some'
article	
Singular	One
Plural	More than one
Positive	ʻis', ʻdoʻ ʻdoes
phrase	
Negative	'is not',' does not', 'don't', 'never'
phrase	
Possessive	My (in French, there are 3 forms;
adjectives	masculine, feminine and plural)

<u>Arrow Tasks</u>: create and draw a floor plan of your dream house. Label each room in French and write a short description of 4 rooms in detail (furniture/colour/size..)

<u>Comparative</u>

Adjectives can be used to compare nouns with each other

Eg il est <u>plus</u> grand <u>que</u> moi.

plus...que : more than

to buy chocolate

moinsque : less than

Eg: il est moins gentil que moi

boire: to drink

je bois = I drink

Tu bois = You drink Il/elle boit = he/she drinks

Nous buvons = We drink

Vous buvez = You drink

Ils/elles boivent = they drink

prendre to take/have

je prends = I take

Tu prends = You take

Il/elle prend = he/she takes

Nous prenons = We take Vous prenez = You take

Ils/elles prennent = they take

Prepositions

They tell us where things are		
entre= between	dans = in	
sur = on	sous= under	
devant = in front of	derrière= behind	
Some prepositions are fo	llowed by "de"	
à côté de = next to		
en face de: opposite		
près de : near		
à droite de = on the right of	of	
à gauche de = on the left	of	

How to say "some" in French.					
	In front of In front of In front of a word In front of a masculine word feminine word starting with vowel plural noun				
some	du	de la	de l'	des	

Links to further resources: https://www.bbc.co.uk/bitesize/topics/zjx947h/articles/zbqkvk7

1. J'habite dans une petite maison nouvelle à Liskeard.	I live in a small new house in Liskeard.
2. J'aime beaucoup habiter ici parce que c'est calme!	I like a lot living here because it is quiet
3. J'habite avec mes parents, mon petit frère et ma grande	I live with my parents, my little brother and my big sister.
soeur.	
4. J'aime ma maison parce qu'elle est belle et comfortable.	I like my house because it is beautiful and comfortable, but I
Mais, je préfèrerais vivre à au bord de la mer!	would prefer to live by the sea!
5. Mon copain habite dans une vieille ferme à la campagne.	My friend lives on an old farm in the countryside. His farm is
Sa ferme est plus grande que ma maison!	bigger than my house
6. Chez moi, la cuisine est plus moderne que le salon mais le	In my house, the kitchen is more modern than than the living-
salon est plus grand que la cuisine!	room, but the living room is bigger than the kitchen!
7. Chez moi, il y a sept pieces: la cuisine, le salon, la salle à	In my house, there are 7 rooms: the kitchen, the living-room, the
manger, une salle de bains et trois chambres	dining room, a bathroom and 3 bedrooms.
8. Cependant, il n'y a pas de salle de jeux, c'est dommage!	Nevertheless, there is no games room, it is a shame!
9. Il y a aussi un petit jardin devant la maison et à côté de la	There is also a small garden in front of the house and next to the
cuisine il y a un grand garage.	kitchen there is a big garage.
10.J'aime beaucoup ma chambre mais elle est plus petite	I really like my bedroom but it is smaller than my brother's. it is
que la chambre de mon frère. Ce n'est pas juste!	not fair!
11.Dans ma chambre, il y a un petit lit en bois et en face de la	In my bedroom, there is a small wooden bed, and opposite the
fenêtre, il y a une armoire double. C'est très pratique!	window there is a double wardrobe . it is very convenient!
13. Sur le bureau, il y a une lampe et un ordinateur mais il n'y a pas de télé!	On the desk, there is a lamp and a computer but there is no TV!
14. D'habitude, pour le petit-déjeuner, je mange des tartines	Usually, for breakfast, I eat some toasts with butter and jam and I
avec du beurre et de la confiture et je bois du chocolat	drink some hot chocolate.
chaud.	
15. Le soir, nous prenons le diner en famille à six heures.	In the evening, we have family dinner at 6 o'clock. Usually, we
Normalement, nous mangeons de la viande et des	eat meat and vegetables.
légumes.	
16. Après, je prends un yaourt ou un fruit mais je préfère la	After, I have a yoghurt or a fruit but I prefer chocolate ice-
glace au chocolat. C'est mon dessert préféré!	cream.It is my favourite pudding!

17. J'adore les plats à emporter. C'est mon repas préféré!	I love takeaway food! It is my favourite dish!
18. Je ne mange pas de viande car je suis végétarien!	I don't eat meat because I am vegetarian!
19. Hier, c'était l'anniversaire de ma mère alors on a mangé au	Yesterday, it was my mum's birthday, so we ate in an Indian
restaurant indien. Cétait délicieux!	restaurant. It was delicious!
20. J'adore les crêpes au jambon fromage mais mon frères	I love cheese and mushroom pancakes but my brother prefers
préfère les crêpes aux champignons!	mushroom pancakes!
21. Pour preparer la pâte à crêpe, il faut acheter du lait, de la	To make pancake batter, you need to buy some milk, some flour
farine et des oeufs!	and some eggs.
22. Pour la Chandeleur, on va manger des crêpes et ensuite on	For the "Chandeleur", we are going to eat pancakes and then we
va regarder un film en famille!	are going to watch a film together!
23. L'année dernière, je suis allé au carnaval de Nice. C'était	Last year, I went to the Nice carnival. It was great! We danced
génial. On a dansé et on a regardé le défilé!	and watched the parade!
24. L'année prochaine, je vais faire quelque chose de different.	Next year, I am going to do something different. We are going to
On va aller à Paris pour la fête du 14 juillet et on va	go to Paris for the 14 th of July and we are going to watch the
regarder le feu d'artifice. Ça sera super! On va beaucoup	fireworks. It will be great. We are going to have a lot of fun
s'ammuser	

I need to know: In this topic, you will explore how borders between countries are decided and how they change over time. You will also investigate how these borders, and the resources found within them, can cause conflict between different countries or areas. You will have the opportunity to investigate conflicts in the UK and in other countries across different continents.

Key Words	Definitions	Arrow Tasks:
Physical	The earth's natural features and what our planet is like such	
geography	as rivers, oceans, ecosystems and hazards.	These questions will be asked of you in lesson to help extend and
Human geography	How and where people live, such as population, development and settlement.	further your understanding. Can you come up with some answers to these questions?
Border	A boundary or outer edge of something.	
Conflict	To disagree with someone or something. This can lead to arguments or fighting.	Will Europe's borders change again in the future? Justify your decision.
Resource	A resource is something that humans attach value to due to its usefulness.	 How might the factors that influence where borders are located also influence where people live?
Territory	A geographical area (space) that belongs to a particular group.	 What might happen if a country does not have enough energy to meet its demand? How will it affect people and businesses?
Physical map	A map showing landforms and natural features in an area.	• Suggest solutions to the conflict. What should each of the sides
Religion	A set of beliefs or ideals that a group follow.	do? Is there a solution where everybody is happy?
Language	The words used and understood by a group of people. There	
	are many different languages across the world.	Homework Tasks: These are some examples of homework tasks you
Culture	Culture is a pattern of behaviour shared by a society, or group of people. Many different things make up a society's culture. These things include food, language, clothing, tools, music, arts, customs, beliefs, and religion.	might get for this topic to help develop your geographical skills. Your teacher will explain the tasks in more detail, especially if they give you one not listed here.
Your teacher wil	I give you any more key words that you learn about.	 Research a 'local' conflict – a conflict in a small area. Is there any 'conflicts' happening where we live?

Subject: Geography Topic: Borders and Conflict

Borders

Borders are everywhere! Whether you are thinking about the border around countries, counties or towns, they all look very different. What borders do you know?



Physical and Human Geography

These are the two types of geography you have studied so far and will continue to do so in this unit. You will explore how the borders of Europe have changed over time. Are the borders there because of physical features or because of human decision?





Conflict

In geography, we look at conflict by studying the how disagreements might happen over the use of space. This could be disagreement over how to use land or resources, over government powers and over territory. Conflicts can happen at different scales:

- Local
- National
- Global

Conflict over Water Links to Further Resources **Conflict over Energy** How has the building and filling of a reservoir in Africa World Atlas What would happen if the lights went out? led to conflict? https://www.worldatlas.com/ Not just the lights... all the energy to power our The Grand Renaissance Dam has been built in Europe's changing borders homes, cars and businesses? Ethiopia, who want to begin producing Hydro http://news.bbc.co.uk/1/shared/spl/hi/europe/02 Electric Power (HEP) to help develop their country. /euro borders/html/ Russia supplies lots of countries in Europe with gas Egypt needs the water supply to maintain Russia and Ukraine by a series of pipelines through Ukraine. This helps agriculture and livelihoods in its own country. https://www.cfr.org/global-conflictto power our homes and businesses. What could You will explore the issues around this and come tracker/conflict/conflict-ukraine happen to the supply of energy to Europe if to a decision... Should Ethiopia be allowed to The Grand Ethiopain Renaissance Dam tensions between Russia and Ukraine build? construct and fill up the reservoir? https://www.bbc.co.uk/news/topics/cyz5g9xez7m t/river-nile-dam-dispute World Conflict Tracker https://www.cfr.org/global-conflicttracker/?category=us

Subject: History

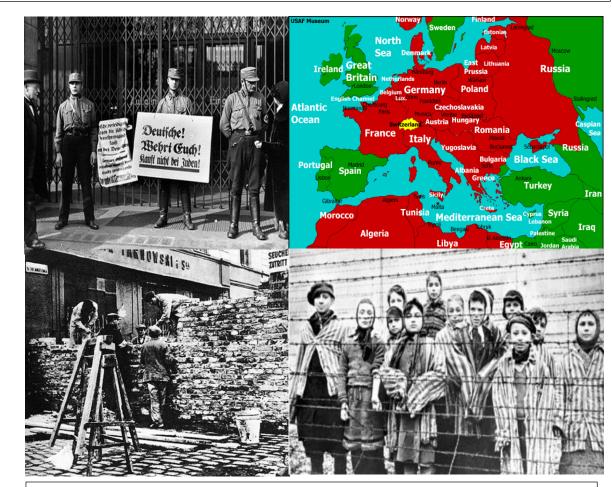
Year: 9 Spring Term 2

Topic: The Holocaust

<u>I need to know</u>: The Holocaust the most infamous genocide in History. Hitler and the Nazis wanted to remove all Jews from Europe. From the time that Hitler became Chancellor of Germany in 1933 life got harder and harder for the Jews. As the years passed there were more and more limitations on their freedoms, they were persecuted, and eventually isolated from the rest of society. By 1942, during World War Two, the Nazis started to kill Jews in huge numbers and in total 6 million Jews were murdered.

Definitions		
The term used to describe the killing of 6 million		
Jewish people by Hitler and the Nazis		
The deliberate killing of a large group of people		
Hatred of the Jewish		
Harass with ill-treatment, especially due to race,		
religion, or belief		
Belief that one race is superior to another		
To deliberately stop using something or going		
somewhere		
An overcrowded, slum area of a city		
Prison Camps for political prisoners where life was		
tough, lots of hard labour, poor conditions		
Extensions to concentration camps, or newly built		
camps, where Jews were killed in large numbers		
e.g gas chambers		
The programme of mass killings of Jews		
One of the most well-known Death Camps		
The group of Nazis who ran the death camps		
One of the few brave people who tried to help the		
Jews – he gave them work to prevent them being		
killed.		
Being set free/released		

Arrow Tasks: Did anyone try and stop the Holocaust? Why? How? How was it possible for the Nazis to carry out their plans?



Top left: Boycotting of a Jewish shop Bottom left: Bricking up the Warsaw Ghetto Top right: Land under Nazi control in WW2 Bottom right: Jewish prisoners at Auschwitz

Links to further resources: <u>https://www.bbc.co.uk/bitesize/guides/zkfk7ty/revision/1</u>

Paper 1 | GCSE Computer Science | Networks

Factors that affect the performance of networks

Bandwidth- amount of data that can be transferred in a give time. Measured in bits per second (bps). This indicates the number of bits of information that can travel down the line in 1 second. The greater the bandwidth the better the network.

Wired connections faster and more reliable than wireless.

Latency is a measure of delay. The time it takes for some data to get to its destination across the network. It is usually measured as a round trip delay - the time taken for information to get to its destination and back again. Latency is usually measured in milliseconds (ms).

Hardware

NICs-

- Allows device to connect to a network.
- Built into motherboard.

Routers

 Transmits data between networks- they're always connected to two networks- ADSL port connects to internet & Ethernet is connected to LAN.

Switches-

- Connect devices on a LAN.
- Receive data (in units called frames).
- Transmit the data on the network with the correct MAC address.

Wireless Access Point (WAP)

- This is a switch that allows devices to connect wirelessly.
- **A hotspot is a location where you can connect to a WAP**

Cables-

- <u>Ethernet</u>- connect devices in LAN e.g. CAT 5e and CAT 6. Made of twisted copper wires.
- <u>Coaxial-</u> single copper wire surrounded by plastic and metallic mesh to stop interference.
- <u>Fibre optic-</u> transmit data as light, no interference, transmits large distances.

Wi-Fi is the standard for Wireless Network

- 2.4 GHz- greater range and better at getting through walls.
- 5 GHz is faster over shorter distances.
- Bands are split into numbered channels that each cover a small frequency range.

LAN

- Connects computers, peripherals, and other devices in a single building or other small geographic area.
- Typically owned by the company that uses them.
- Advantages- Can install and update software on all computers at once, rather than one by one. Can share files & work collaboratively. Can share hardware e.g. printers.

WAN

- Allows the transmission of data across greater geographic distance.
- Organisations hire infrastructure from telecommunications companies who own and manage the WAN.
- Connected using fibre or copper telephone lines, satellite links or radio links.

Client server-

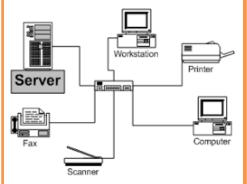
- Managed by server.
- Devices called clients.
- Clients send requests to server. Server processes the request and responds.
- Server stores profiles, passwords and access information.

Pros-

- Central storage of files.
- Easy to back up.
- Easy to install software.
- Easy to manage security.
- Reliable

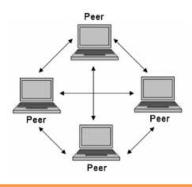
Cons-

- Expensive
- Needs specialists
- If server down, all clients lose access.

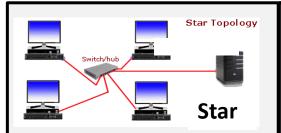


Peer to peer networks-

- NO server.
- All devices equal.
- Files stored on each device. **Pros-**
- Easy to maintain.
- No dependence on server. Cons-
- No centralised management so all updates done on each device.
- Copying files causes duplicate files.
- Less reliable.
- Machines prone to slowing down when other devices access them.
- **Skype is an example of a P2P**



Network Topologies

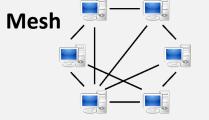


Pros of STAR topologies-

- If device fails the rest of the network is unaffected.
- Simple to add more devices.
- Better performance as data goes straight to device.

Cons-

- All devices needs a cable to connect to main switch or server.
- Can be expensive. .
- If switch or server breaks whole network affected.



- Decentralised- networking devices are either directly or indirectly connected to each other.
- No need for a switch or a server.
- Works by sending the data along the fastest route possible.

Pros of Mesh topologies-

- No single point where network can fail.
- If one device fails the data will be sent along another route.

Cons of Mesh topologies

Used to be expensive with lots of cables. • HOWEVER with the use of wireless technology this has become more practical.





The Internet

- Network of networks.
- It's a WAN connecting devices and networks over the world.
- Based around the protocol TCP/IP. ٠

World Wide Web

- Collection of website hosted on web ser
- Accessed through the **http** protocol. ٠

URLs

٠

 Addresses used to access web servers and resources. on them.

Domain Name Server (DNS)

Websites domain name into its IP address.

Virtual networks

- Network that is software based. Partitioning off some physical network bandwidth to form separate network.
- Several virtual networks can exist on the same physical network.
- Share the same hardware.
- Has their own security. •
- A Virtual private network is a type of virtual network that can be used to send data securely over a large network, like a WAN or the internet. E.g. a VPN could be used to set up a school intranet that all the students access from home.
- Virtual LAN allows you to split a LAN into several separate networks using the same hardware.

Pros of the cloud.

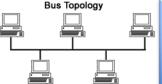
- Access from any device.
- No hardware or IT staff required.
- Can increase storage.
- Provides security. .
 - Updated

٠

automatically.

Cons of the cloud.

- Need to connect to the internet.
- Dependent on host for security.
- Data vulnerable to • hackers.
- Unclear of ownership. •
- Subscription costs.







Bus

- Devices in a line.
- Connected with backbone cable.
- Data sent both ways which slows the network.

Ring

- Data moves in one direction which prevents collisions.
- Only one device can send at a • time.
 - Data passes through many devices before destination.

- causes data collisions which

Network protocols- set of rules of how devices communicate & how data is transmitted across a network.

MAC addresses-

- Unique identifiers.
- Assigned to all network enabled devices.
- 48 or 64 bit binary numbers converted to HEX.
- Used by Ethernet protocol on LANs. LAN switches read the MAC addresses and use them to direct data to the correct device.



Communication between different networks uses IP Addresses

- Used when sending data between networks.
- IP addresses not linked to hardware.
- Assigned manually when before device can access the network.
- <u>Static IP addresses</u> are permanent and used to connect printers on a LAN & hosting websites on the internet.
- <u>Dynamic IP addresses</u> assigned to the device by a network server. Devices can have different IP addresses each time they log on.
- IP addresses can be 32-bit (converted to denary) or 128-bit (converted to HEX).

File Transfer Protocol [FTP]

FTP is used to transfer large files. It is often used for organizing files on a web server for a website. You can have private access to an area on an FTP server where you can upload your files. You can then give another user access to download the documents that you have shared.

Hyper Text Transfer Protocol [HTTP]

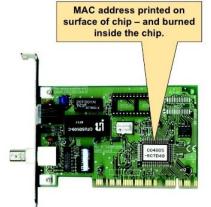
HTTP transfers web pages from web servers to the client. All web page addresses start with http.

Hyper Text Transfer Protocol Secure [HTTPS]

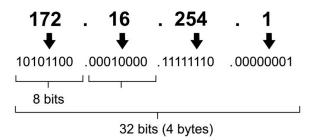
An https address is a secure web address which has been encrypted. An https address is used for sites holding bank details and secure information.

The NIC

- Each system must have a unique identifier
- Media Access Control (MAC) address
 - A unique address burned into a ROM chip on the network card
 - Each MAC address is 12 hex characters or 48 bits in length



IPv4 address in dotted-decimal notation



Simple Mail Transfer Protocol [SMTP] and Post Office Protocol [POP]

Email uses these protocols to communicate with mail servers. SMTPis used to send the email; POP is used to receive email. Most email clients allow for transfers of up to 10 MB.

Voice Over Internet Protocol (VOIP)

VOIP is a set of protocols that enables people to have voice conversations over the internet. Used for Skype for example.

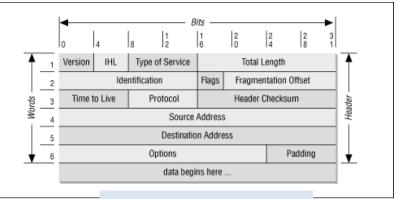
Internet Message Access Protocol (IMAP)

Used to retrieve emails from a server. Server holds the email until you actually delete it. You only download a copy.

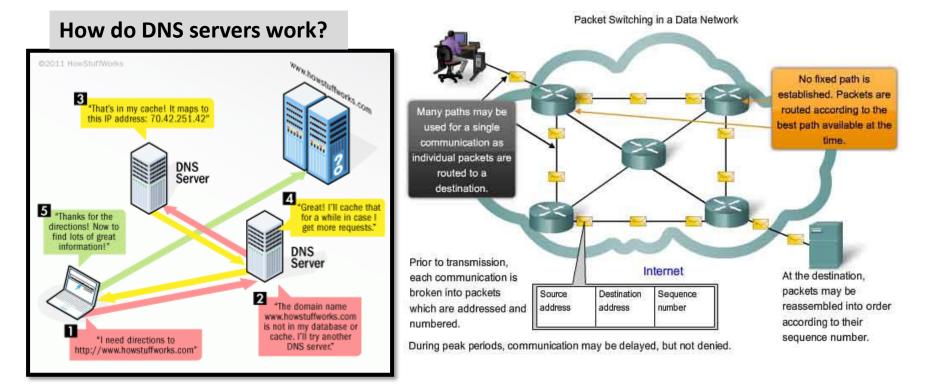
Network protocols- Between networks (e.g. over the internet), data is sent in packets and directed by routers using TCP/ IP protocols.

Packets

- Packet has <u>header</u> (control info) which includes the <u>destination address</u>, <u>source</u> <u>address</u> and <u>packet number</u>.
- Payload-the thing the person is to read e.g. the email or document or webpage.
- Packets include the **checksum number** which is a form of validation to check for corruption.
- Packet switching is used by routers to direct data packets on the internet & other IP networks.
- Sending device splits data into packets > Packet given packet number to show order of the data > router reads header and decides which way to send it next > packet can take different routes > packets can arrive in different orders but reassembled using the packet number > if packets are not received there is a timeout message > if all data is received & checksum matched a receipt confirmation is sent.



An example Packet



Network protocols & layers

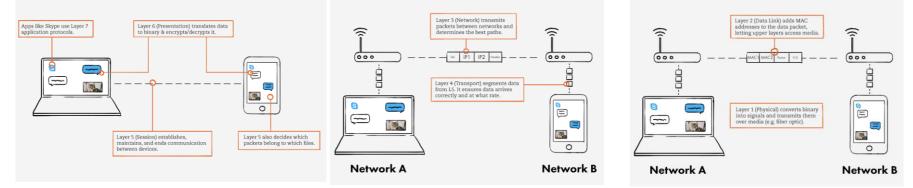
Open Systems Interconnection (OSI)

Network protocols are divided into layers

- Layer- group of protocols with similar functions.
- Layers are self contained. They do their job and don't worry about the other layers.
 - Each layer serves the layer above.

Layer 7	Application Layer	Web browser, email, file management e.g. SNMP, HTTP, FTP.	
Layer 6	Presentation Layer	e.g. Encryption, ASCII, PNG, MIDI.	
Layer 5	Session layer	determines which data packets belong to which files, as well as where these packets go. Also establishes, maintains, and ends communication between devices e.g. Syn/Ack	
Layer 4	Transport Layer	Creating and sequencing packets on a WAN. Error checking of packets e.g. TCP, port numbers.	
Layer 3	Network Layer	Routing packets on a WAN e.g. IP, routers.	
Layer 2	Data Link Layer	Creating and routing frames on a LAN. Error checking of frames e.g. MAC, switches.	
Layer 1	Physical Layer	Methods of encoding bits onto wires and wireless. Frequencies and channels e.g. cables, RJ45.	

•

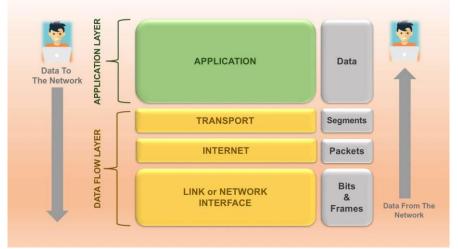


One popular mnemonic, starting with Layer 1: "Please Do Not Throw Sausage Pizza Away."



Network protocols & layers

4 layer model- **This model is the one in the OCR exam **



Advantages of using layers

Breaks network communication into manageable pieces which helps developers concentrate on only one side of the network.

Layers are self contained, they can be changed without other layers being affected.

Standards for each layer forces companies to make compatible, universal hardware and software, so other brands with work with each other.

Layer	Protocols in this layer cover	Protocol examples
Layer 4- Application layer	Turning data into websites and other applications and vice versa	HTTP, FTP, SMTP
Layer 3- Transport layer	Controlling data flow- e.g. checking data is sent and delivered.	ТСР
Layer 2- Network or Internet Layer	Making connections between networks and directing data.	IP
Layer 1- Data link or Network interface	Passing data (as electrical signals) over physical networks.	Ethernet

Each layer serves the layer above it- it does the hidden work needed for an action on the layer above . So in the example 4-layer model, when you send an email (on layer 4), this triggers actions in layer 3, which triggers actions in layer 2, all the way down to layer 1.

Network Attacks and Security threats

Malware is short for 'malicious software'.

A general term for any hostile or intrusive software. For example it may disrupt computer operations (virus), or it may seek to secretly monitor what the user is doing (spyware).

image



- How do they access your computer?
- Computer Virus- attaches to files e.g. .exe. Spread by copying infected files and activate by opening files.
- Trojan- malware disguised as legitimate software. Users install them.
- Worms- like viruses but they self-replicate and spread very quickly.

What are the typical actions of malware?

- Spyware- Secretly monitors users actions e.g. key presses.
- Adware-
- Pharming-
- Click fraud
- Ransomware
- Rootkits- alter permissions, giving malware & hackers administration level access.
- Scareware- tells user computer is infected- scares them into opening malicious links or paying for solutions.

Network attacks comes in different forms

Passive attack- monitoring data travelling on a network and intercepts information. Use network- monitoring hardware & software such as packet sniffers.

Active attack- someone attacks a network with malware. Defence against it is using firewalls.

Insider attack- someone in an organization exploits the network access to steal information.

Brute force attack- cracking passwords through trial and error. Uses automated software producing hundreds of passwords.

Denial-of-service attack- DoS- hacker tries to stop users from accessing a park of network or website. Floods network with useless traffic, slowing it down.

Social engineering.

- People can make mistakes; they can be tricked, fooled, bribed, or threatened. All of these threats to a network are labeled together as 'social attacks'.
- Bribing a user into allowing an attacker access to a system
- Putting a thumb-drive full of malware somewhere a user might pick it up, and labelling it like "Salary Records" or "Staff redundancies".
- Phoning up a user at work and convincing them to break policy and give them the information they want directly, like patient information records.

SQL injections (structured query language).

- SQL is one of the main coding languages used to access information in databases.
- SQL injections are pieces of SQL typed into a website input box to reveal sensitive information.

Network policies to prevent vulnerabilities

Good network policies will....

- **Test** the network to find and fix security weaknesses and investigate problems.
- Use **passwords** to prevent unauthorized access.
- Enforce user access levels to limit the number of people with access to sensitive information.
- Install anti-malware and firewall software to prevent and destroy malicious software.
- Encrypt sensitive data.

Penetration testing- Staff simulate potential attacks on the network. Identifies weakness in the security. Results reported back.

Network forensics- Investigations to find the cause of attacks on a network. They capture the data packets as they enter the network. The packets are analysed. Decisions made on how to prevent future attacks.

Passwords- Help prevent unauthorised users accessing the network. Combination of letters, numbers and symbols. Changed regularly.

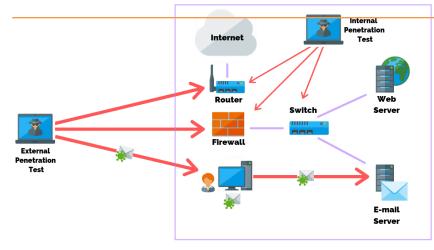
User access levels.

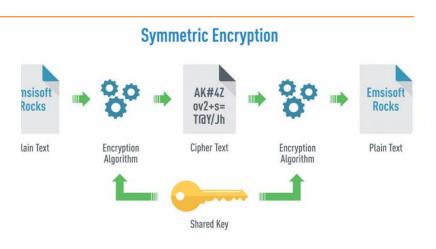
- E.g. a Business manager has a higher access level allowing them to access more sensitive data e.g. salaries.
- Limits the amount of people with access to important data therefore helping to prevent insider attacks.

Anti malware software-

- Designed to find and stop malware from damaging an organisations network and the devices on it.
- Firewalls examine all data entering and leaving the network and block any potential threats.

Encryption- Data translated into a code which only someone with the correct key can access. Encrypted text is called <u>cipher text.</u> Data not encrypted is called <u>plain text.</u> Allows data to be sent securely.





LANs, WANs and Hardware- Exam questions

Describe 2 differences between a LAN and WAN?	Explain one advantage of a wired network over a wireless network.
Describe some of the advantages of using a LAN?	What is the difference between a WAP and a Hot spot?
How does bandwidth affect the performance of a network?	What is the difference between 2.4GHz and 5GHz radio frequency bands.
How does latency affect the performance of a network?	Draw a client server and a peer to peer network
How is a switch used in a network?	Explain the differences between a client server network and a peer to peer network.
What is a NIC? What is it used for?	What type of network work a small business use?
What is a router used for in a network?	Give three advantages and two disadvantages of using a star network.
What is the difference between an ethernet cable and a fibre optic cable?	Describe the key features of a mesh network.
What is a DNS server? What is its purpose?	What is the difference between a bus topology and a ring topology?

Network protocols, the internet and Network Security-Exam questions

What is the definition of a protocol?	Can you give examples of what happens at each layer of the OSI network protocols.
What is the difference between a MAC address and an IP address?	*Describe each part of the 4 layer network model and how they interlink*
What is the difference between a static and a dynamic IP address.	Can you give examples of the advantages and disadvantages of using the cloud
Can you write step by step how packet switching is used to direct data?	What is a virtual network?
List some of the things that a data packet contains	What is social engineering and who could it affect?
What is a packet number used for?	What is encryption?
What is a checksum? How and when is it used?	Describe 5 different types of network attacks.
Write a sentence explaining what each of the following stands for and what they do : TCP, IP, FTP, HTTP, HTTPS, SMTP, POP3, IMAP	Describe three examples of a good network policy.
What is the mnemonic to remember the 7 layers of the OSI network model?	How does a firewall work?

Subject: Mathematics

I need to know how to:

rate of change

•

.

.

.

٠

٠

Topic: Number and Algebra

Use the form y = mx + c to identify parallel lines

Rearrange an equation into the form y = mx + c

Interpret the gradient of a straight line graph as a

Find approximate solutions to kinematic problems

Plot, sketch, recognise and interpret graphs of

Find the equation of a straight line

quadratic (cubic, reciprocal) functions

involving distance, speed and acceleration

Year: 9 Spring 2

Know the criteria for triangles to be congruent (SSS,

Use known facts to form conjectures about lines and

Explain why the base angles in an isosceles triangle

Explain the connections between Pythagorean triples

SAS, ASA, RHS) and identify congruent triangles

angles in geometrical situations

must be equal

Use known facts to create simple proofs

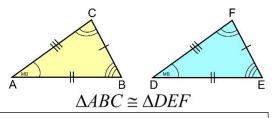
٠

•

٠

.

٠



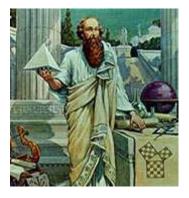
Arrow Tasks

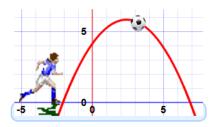
- → Look for examples of different gradients around you, when might it be important to work out the gradient?
- → Can you explain the conditions for congruency to someone else?
- → Sign up on <u>https://parallel.org.uk/</u> and do the quizzes each Thursday.

Key words	Definitions	
<u>Congruent</u>	Congruent shapes are completely identical, same angles, same length sides.	
Cubic	Volume is a cubic measurement as it involves three dimensions being multiplied together. We also have cubic polynomials or expressions where the highest power of x is a 3. For examples: $5x^3$, $x^3 + x^2$, $ax^3 + bx^2 + cx + d$. We can plot graphs of cubics.	
Gradient	Gradient is another word for slope, how steep something is. We can calculate the gradient of a straight line graph.	
Isosceles	This is a type of triangle that has two equal lengths, and two equal angles. The name isosceles comes from the Greek language meaning .equal legs	
Kinematic	Kinematics is all about describing motion.	
Linear	We can draw graphs of linear functions, the graph will be a straight line.	
Parallel	Parallel ones always have the same distance between them, they will never cross.	
Pythagoras' theorem	This is all about the relationship between the 3 sides of a right angled triangle, some right angled triangles have all 3 sides as integers (whole numbers), but not all!	
<u>Quadratic</u>	Quadratic polynomials or expressions have a 2 as the highest power of x. For example: $3x^2 + x - 1$. We can plot graphs of quadratics.	
Reciprocal	A reciprocal function is one where we divide by a changing x value e.g. y = 1/x	

this makes it Quadratic $5x^2 + 3x + 3 = 0$

Links to further resources: https://parallel.org.uk/ https://www.bbc.com/bitesize/subjects/zqhs34j https://nrich.maths.org/secondary





Subject: **Music** Year 9: Spring Term 1 Topic: **Classic Classics**

"Everybody loves classical music, they just don't know about it yet" - - Benjamin Zander

I need to be able to: Recognise, play and understand the style of two pieces of music, Canon by Pachelbel and Fur Elise by Beethoven SO THAT I can appreciate how music of this era has influenced the music of today.

<u>KEY WORDS</u> Classical	MEANING The name given to music that isn't pop, rock etc but also to music written between 1750 and 1820	You will know more classical music than you realise due to adverts, films etc. Here are some to listen to: Zadok the Priest by Handel Ode To Joy by Beethoven		
Baroque	Music written between 1600 and 1750	Dance of the Knights by Prokofiev The Sorcerers Apprentice by Dukas Flight of the Bumblebee by Rimsky-Korsakov	Beethoven 1710 - 1827	
Ground Bass	The name given to a bass line (and chord pattern) that repeats itself a lot!	Pachelbel Canon Andante Moderato C G Am Em F C F G C G Am Em F C F G C G Am Em F C F G	2000	
Textures	How music is layered together			
Counter melody	A second melody that fits over the main melody		Pachelbel 1653 - 1706	
Harpsichord	Keyboard before the piano		1055 - 1700	

LISTEN Here is a lesson on how to play Fur Elise by Beethoven = <u>https://www.youtube.com/watch?v=wfF0zHeU3Zs</u>

And here is a very different take on the well know piece = . <u>https://www.youtube.com/watch?v=AXvctC5QIC8</u>

Arrow Tasks – Using Youtube or online lessons, find another classical piece to learn (look at the list above). Listen to Coolio's 'See You When I Get There' rap and notice how he used Pachelbel's Canon in the background.

Year: 9

Topic: Fitness in Sport

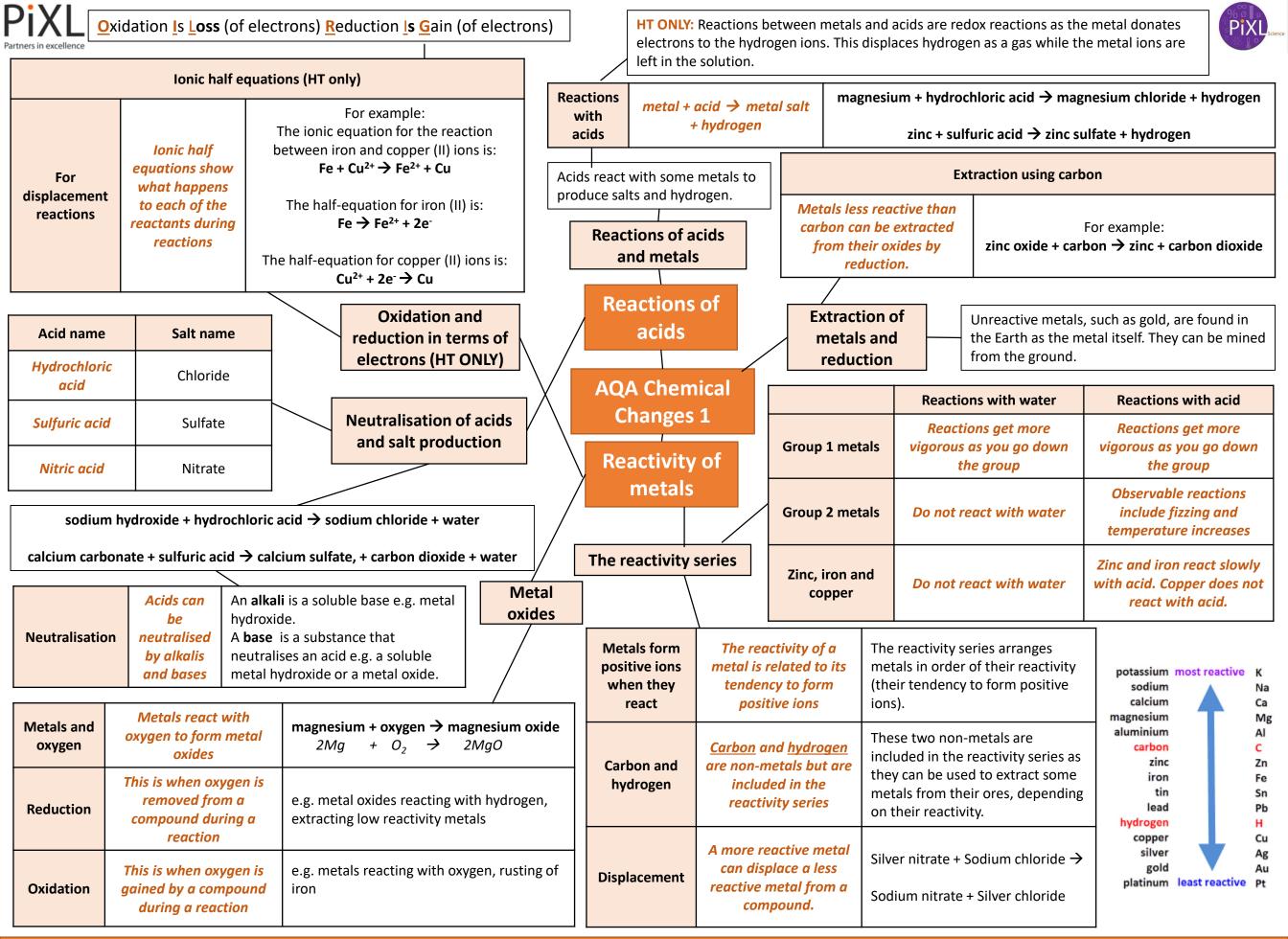
I need to know: To understand the difference between health and skill related components of fitness and how to test the components of fitness.

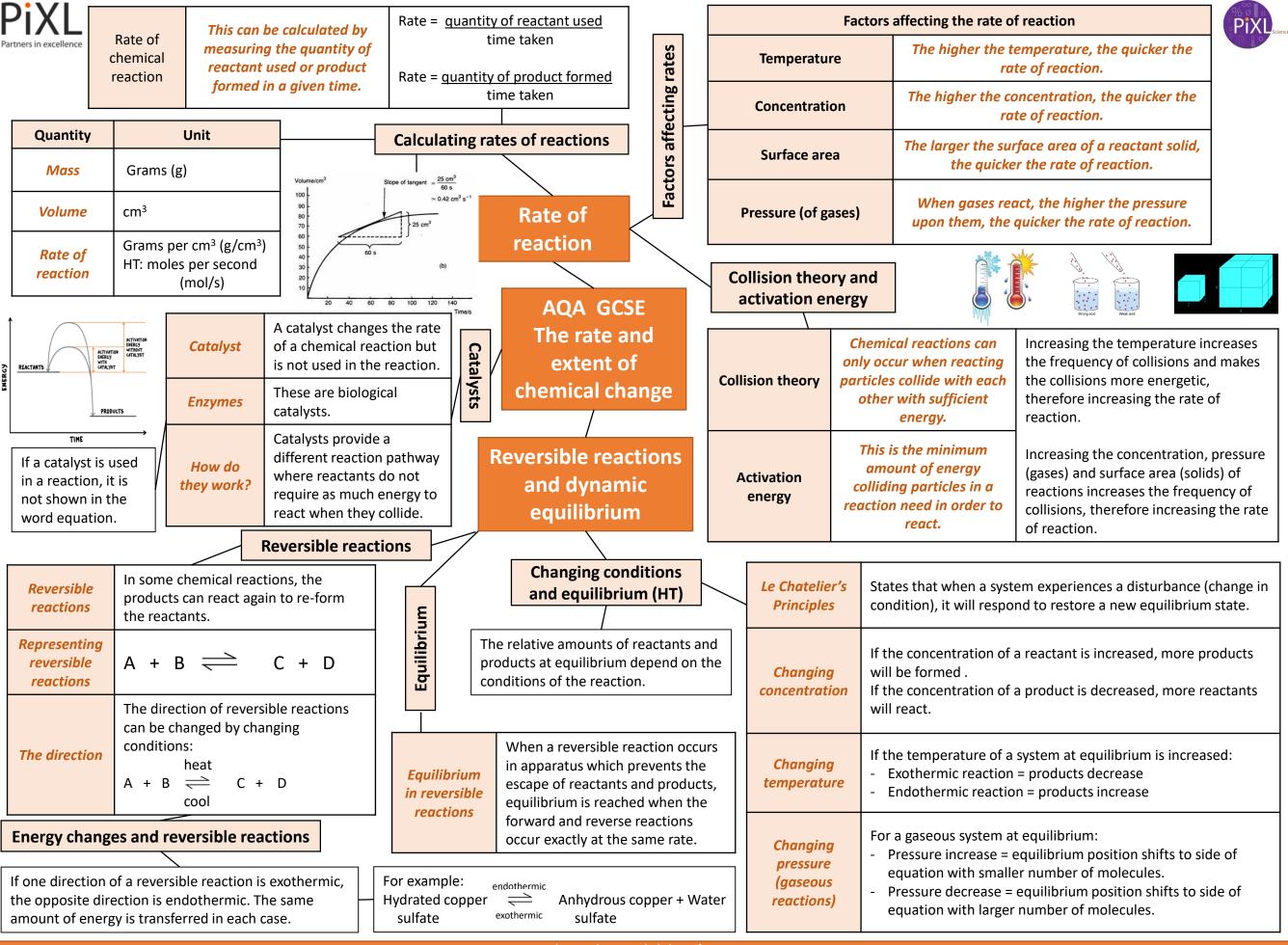
Key Words	Definitions	Test
Agility	The ability to change the direction or position of the body at speed.	Illinois Agility Test
<u>Balance</u>	the ability to retain the centre of mass above the base of support when stationary (static balance) or moving (dynamic balance).	Stork stand test
Body Composition	The percentage of body weight which is fat, muscle or bone	Skinfold test
<u>Cardiovascular Endurance</u>	The ability of the heart, lungs and blood to transport oxygen during sustained exercise. Our heart and lungs are able to cope with activity for relatively long periods of time without getting tired.	Multi-stage fitness test 12-minute cooper run
<u>Co-ordination</u>	The ability to use different (two or more) parts of the body together smoothly and efficiently	Wall throw and catch test
<u>Flexibility</u>	The range of movement (ROM) at a joint. It is the ability to move the joints through their full range of motion.	Sit and Reach Test
<u>Muscular Endurance</u>	The ability to use voluntary (skeletal) muscles repeatedly without tiring.	Sit up test Press up Test
Muscular Strength	The ability of a muscle to apply force and overcome resistance or the amount of force a muscle can exert.	Grip Dynamometer
Power	Power is the ability to perform strength-based movements quickly	Standing Broad Jump Vertical Jump Test
Reaction Time	The amount of time it takes to respond to a stimulus.	Ruler drop test
<u>Speed</u>	The ability to move all or part of the body as quickly as possible.	30-meter fly sprint test

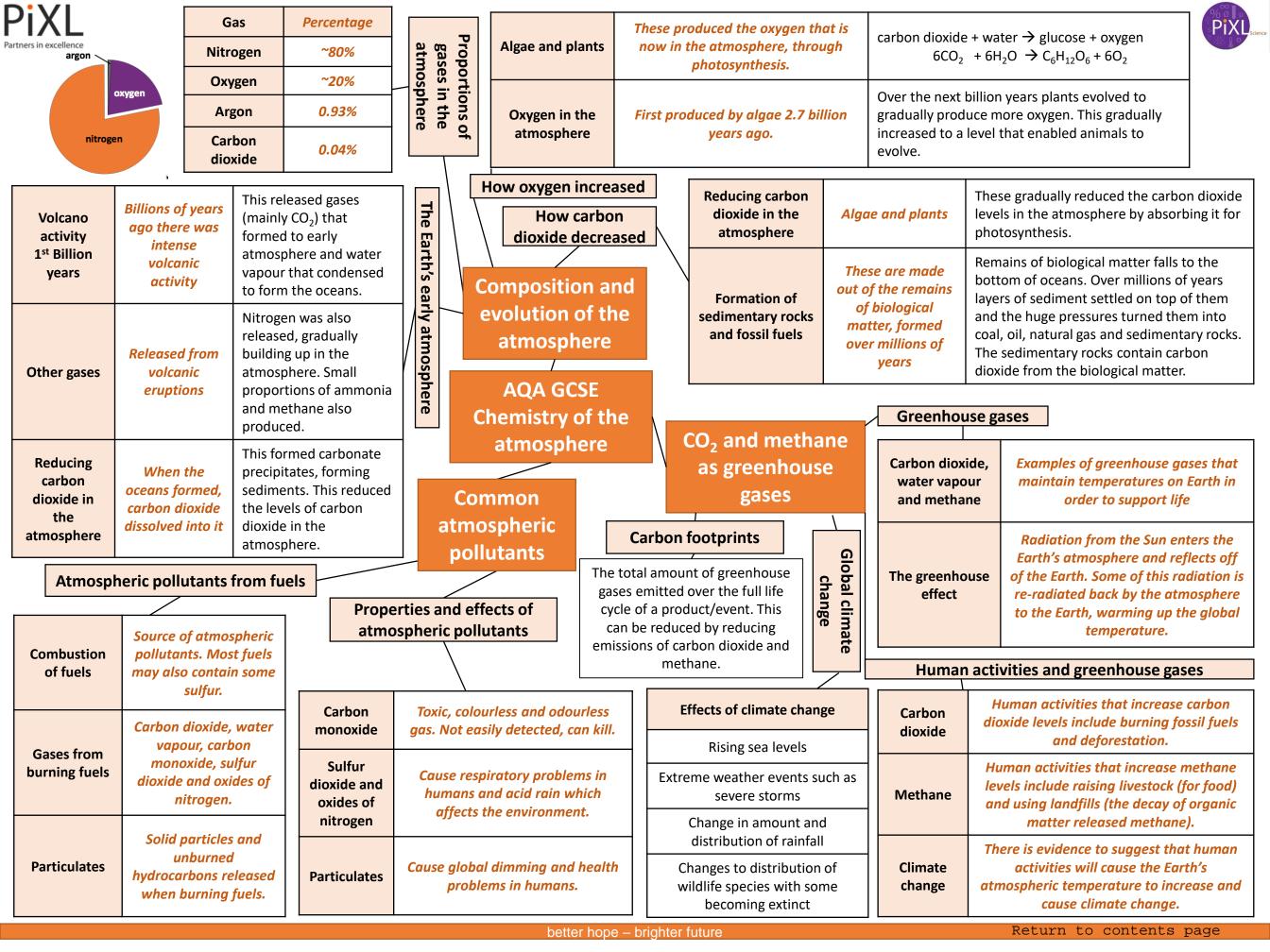
Arrow Tasks

Choose a famous sportsperson and describe what components of fitness they use for their sport and why they need them.

Links to further resources: <u>https://www.bbc.co.uk/bitesize/guides/zcn6sg8/revision/4</u>







Subject: Spanish

Year: 9 Spring 2 2021

Topic: Module 4 - ¿Qué Hacemos?

I need to be able to: talk and write about going out, getting ready, talking about what to wear and say what happened.

Key Words	Definitions	Example of a stem	Example of a reflexive verb	Using 'this' and 'these'
Verb Infinitive Subject pronouns Noun Gender Adjective	 Words which tell you the action Original form of verb ending in -ar,-er,-ir Words that tell you who is doing the action. A place, person or a thing. In Spanish, nouns and adjectives can be either masculine or feminine. Words which describe nouns. In Spanish adjectives are the same gender as the noun which they describe. 	changing verb in the Present Tense Querer = to want Quiero = I want Quieres = you want Quiere = he/she wants Queremos = we want	in the present tense: Ducharse = to have a shower Me ducho = I Te duchas = you Se ducha = he/she Nos duchamos = we Os ducháis = you(pl)	Masculine (s) = este Este vestido = this dress Masculine (pl) = estos Estos zapatos = these shoes Feminine (s) = esta Esta camiseta = this T-Shirt
Definite article Indefinite article Singular	'the' 'a' 'some' One	Queréis = You want (pl) Quieren = they want	Se duchan = they	Feminine (pl) = estas Estas zapatillas = these trainers
Plural	More than one			
Positive phrase Negative	'is', 'do' 'does 'is not',' does not', 'don't', 'never'		HIGH FREQUENCY WORDS	There will be more
phrase Possessive adjectives	My (in Spanish, there are 2 forms; singular and plural – Mi /mis	demasia	sto = of course o = too (much) os = too many	specific vocabulary. This will be given to you by your class teacher.

estos/estás = thes

¡Lo pasé fenomenal! = I had a fantastic time

Arrow Tasks: Research Spanish designers, describe one of their designs, give your opinion about it.

Create a fact file or presentation about fashion in Spain.

Links to further resources: https://www.bbc.com/bitesize/subjects/zgdqxnb

teacher.

	español	inglés
1	¿te gustaría ir al cine o a la bolera?	Would you like to go to the cinema or to the bowling alley?
2	Prefiero ir a la pista de hielo ¿Qué piensas?	I prefer to go the ice rink, what do you think?
3	De acuerdo	All right, OK
4	¿Te gustaría venir a mi casa después?s	Would you like to come to my house afterwards?
5	Sí, me gustaría mucho	Yes, I would like that very much.
6	¿Te gustaría ir al parque esta tarde?	Would you like to go to the park this afternoon?
7	iNi hablar!no tengo ganas, prefería ir al polideportivo.	No way!I don't feel like it, I would prefer to go to the sports centre.
8	¿Dónde quedamos?	Where shall we meet?
9	Puesdelante de la cafetería o en frente del cine	Well in front of the café or opposite the cinema?
10	Muy bien.	Very well.
11	¿A qué hora? ¿a las tres y media?	At what time? At 3:30?
12	Lo siento puedo, éa las cuatro menos cuarto?	I'm sorry, I can'tat a quarter to four?
13	¿Quieres salir esta noche?	Do you want to go out tonight?
14	Lo siento, no puedo, tengo que cuidar a mi hermano menor y	I'm sorry, I can't, I have to look after my little brother and I don't have
	no tengo dinero y tengo que lavarme el pelo también.	any money and I have to wash my hair also.
15	¿Cómo te preparas cuando sales de fiesta?	How do you get ready when you go to a party?
16	Primero, me baño o me ducho	At first I have a bath or a shower
17	me lavo la cara y me lavo los dientes, claro	I wash my face and I clean my teeth, of course.
18	Me maquillo, me visto luego me aliso el pelo pero no me	I put on make-up, I get dressed, then I straighten my hair but I don't put
	pongo gomina.	gel on my hair.
19	¿Qué llevas normalmente?	What do you normally wear?
20	Por lo general llevo unos vaqueros y una sudadera.	Normally I wear jeans and a hoodie.
21	A veces mi padre dice que soy demasiado joven para salir a	Sometimes my dad says that I am too young to go out to parties.
	unas fiestas.	
22	i No es justo! En mi opinión no tiene razón	It is not fair! In my opinion he is not right.
23	¿Tú qué opinas?	What do you think?

Year 9 Product Design: Candle Holder

I need to be able to:

Key Words/

- understand how to design using CAD Adobe Illustrator ٠
- identify the key features of the Modernist Design Movement ٠
- demonstrate the importance of aesthetics within the designing and making process. ٠
- develop practical skills in metalwork and woodwork ٠

Definition





		S	everity of Harm (Impa	ct)
		Low (L)	Medium (M)	High (H)
p	High (H)	3	4	5
Likelihood	Medium (M)	2	3	4
5	Low (L)	1	2	3

PLANISHED TEXTURE

Workshop Safety Personal Protective Equipment (PPE)

Risk Assessment



	-
MODERNIST	
Design influen	/ ce:

Arrow Tasks:

- Research alternative materials and techniques that could be used for the candle holder and see if you can incorporate them into your own design
- Explain the different materials and techniques you could use.

Terms	
Task Analysis	To analyse the product design project to ensure that you are aware of what is expected.
Modernist Design	The style of visual arts, architecture and design. Modernism promoted sleek, clean lines and used modern technologies
Research:	The systematic investigation into and study of mate- rials and sources in order to establish facts and reach new conclusions
Sconce	This is the cup-shaped component at the top of a candlestick /candelabrum which holds the candle in place
Surface Finish	The final design will be created using CAD (computer aided design) and CAM (computer aided manufacture). The cut parts will be joined and the surface will be 'finished' by fine sanding and applying a wax coat in layers to create a pro- tective, smooth finish
Packaging	Products are usually displayed and sold in packag- ing which protects the contents and gives visual information about the product in the form of graphics - images and text

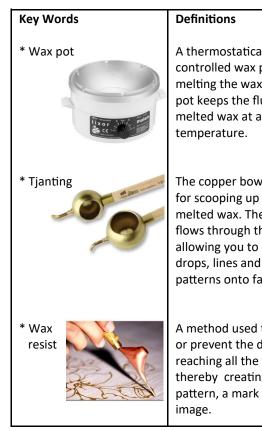
Links to further resources:

https://www.bbc.co.uk/bitesize/topics/zhv8g6f/resources/1 http://wiki.dtonline.org/index.php/Main_Page https://www.technologystudent.com/equip1/equipex1.htm

Topic: Wall Hangings

I need to be able to:

- understand the batik process and the importance of colour theory.
- identify the key features of Marcia Baldwin's work and to understand its context.
- demonstrate the importance of aesthetics . within the designing and making process.
- develop practical sewing skills & fabric dying, and knowledge of embellishments.



A thermostatically controlled wax pot for melting the wax. The wax pot keeps the fluid melted wax at a constant

The copper bowl is used for scooping up the melted wax. The wax flows through the spout allowing you to create drops, lines and surface patterns onto fabric.

A method used to "resist" or prevent the dye from reaching all the fabric, thereby creating a pattern, a mark or an

Who is Marcia Baldwin?

An American artist that works in many styles from realistic through to abstract, specialising in artwork based upon nature, animals and flowers. Baldwin's batik work contains bold and vivid colours which draw the eye in and help to create a sense of movement.





Year: 9

Batik

What is Batik?

A method (originally used in Java, Indonesia) of producing coloured designs on textiles by dyeing them, having first applied wax to the parts to be left undyed.

The Batik method

- Outline your design in wax onto the fabric (this will 1. create the undyed areas).
- Paint batik dye over the fabric. Start by creating 2. thin washes of colour and build it up like a watercolour. The wax will act as a resist and hold back the paint that will spread on the fabric.
- 3. Apply a second layer of wax to protect some of the dyed areas and paint again using mid tones of colour.
- Apply a third layer of wax to protect more of the 4. dyed areas and paint again using dark tones of colour.
- 5. Iron the fabric between layers of newspaper to remove the wax.

Textile Embellishments

The process of adding colour, pattern or texture to fabric through the use of mediums such as thread, ribbon, sequins, yarns and buttons.



Ribbon - provides straight lines.

Beading - creates a focal point.





Embroidery - creates an outline. Applique - creates a sense of depth.

Arrow Task: Research 3 batik artists and compare their styles of work- do they have similarities/how do their styles differ from one another?

Return to contents page

Link to further resources: https://www.batikguild.org.uk/artists

Year: 9

Topic: Food

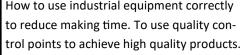


I need to be able to: secure and demonstrate a range of complex food skills, applying the knowledge of food science and dietary related diseases to modifying recipes, to cook a wider range of dishes, safely and hygienically, and understand commercial food production/ provenance of ingredients.

Key word Allergic reaction	Definition The immune system is part of the body's defence system, as it protects against foreign organisms like bacteria and viruses. In some people, it may also react to substances in foods, or in		Gelatinised sauce— flour, butter and milk is cooked to make a sauce—Macaroni cheese, lasagne sauce. Quality control—thick smooth glossy sauce.	Getting worm Fin suelling up 10 Image: Section of the sectio
Lactose intolerance	the environment, e.g. pollen, milk, nuts A person is allergic to lactose found in milk– this also includes all products made with milk– cheese, yogurt, cream, butter.		Reduction sauce — to simmer a sauce to evaporate the water to increase the thick- ness and intensity of the flavour.—curry— lasagne meat sauce. Quality control—thick	
Coeliac	A person is allergic to gluten found in wheat. This includes any product made with it—flour, bread, pasta, pastry, cakes, biscuits, commercial products containing starch.		rich viscosity.	
Gelatinisation	Starch (flour) is used to thicken a sauce . It absorbs the liquid , swells and bursts open at 100 °c thickening the sauce.		Lamination- rough puff pastry. Creating layers of fat, air and pastry so it rises when baked.—Filled pastry parcels.	
Reduction	Boiling a sauce to thicken it. The water boils at 100°c turning to steam. The water evaporates from the sauce causing it to thicken.	IFT What is Sensory Evaluation?	Quality control—well risen flaky layers. Cake methods—creaming, melting,	What method of cake making would you use for these? 1)
Lamination	To roll and fold pastry to create layers of air, fat and pastry (lamination) so it rises when baked– flaky , rough puff pastry.	A scientific discipline used to rooks: measure analyze and interpret those responses to products that are parceived by the senses of sight, smell, touch, taste and hearing."	whisking, rubbing in—investigating the structural, sensory properties. Evaluation techniques.	
Arrow Tasks -	the benefits of seasonal local foods. Apply this to the food r		How to use industrial equipment correctly	

• Explain the benefits of seasonal local foods. Apply this to the food miles, carbon footprint and link to global warming. Understand welfare issues when producing meat, poultry and fish. Explain how commercial foods are produced and understand food labelling . Apply this information to make informed food choices relating to diet, allergies, religious beliefs and consumer choices - vegan, vegetarian, Buddhism, low fat diet, coeliac etc.





Quality control example—elastic dough gluten window check

We hope you find these pages about revision useful. You will need to use these skills throughout your time at school, from Year 7 all the way through to Year 13. Developing these skills early means they will become second nature and revision will become easy!

We want you to achieve the best possible results throughout your time at school and achieve results that will not only increase your life chances but also take you to the next step on your chosen career pathway. Speak to any one of your teachers for more advice on revision.

Points to remember	6	Attendance
 Revision is re-looking at information you have learnt previously. The idea is that you know the information that will be tested and can remember it for the exam. Your attitude is important. You only fail if you give up. If you fail to plan, you plan to fail. 		 Every lesson counts and your attendance is vital. Try you best in all lessons and make them work for you. It is what you are getting out of it that matters. This is YOUR result, so make it count. You will get out of it what you put in - so do your best.
Believe in yourself, be positive. If you think you can succeed you will.	6 6	

	-	1 Mar 1
	(
		2
	A	•
	(1	
	1	
		٩.
	(1)	
	1	۱.
		/
	_	
	U	
	V.)
	C	
		5
	A	۱.
	Œ	
	(f	
	V,	
	1	۱.
	a.	
1	V	
Ľ	Y	
	-+	



Top Tip: Revision materials are available from the school shop in the library. You can also buy these items very cheaply from a local pound shop!

	Monday	Tuesday	Wednesday	ion Pla Thursday	Friday	Saturday	Sunday
Morning							
Afternoon							
Evening							

Revision Strategies

- Plan your time create a revision timetable
- Break revision into chunks
- Find a quiet space to revise



- Revise in 20 minute blocks
 - This is the optimum concentration time
 - Have a short break between blocks



- Avoid distractions!
 - Turn off your phone
 - Turn off the TV



Brain Dump

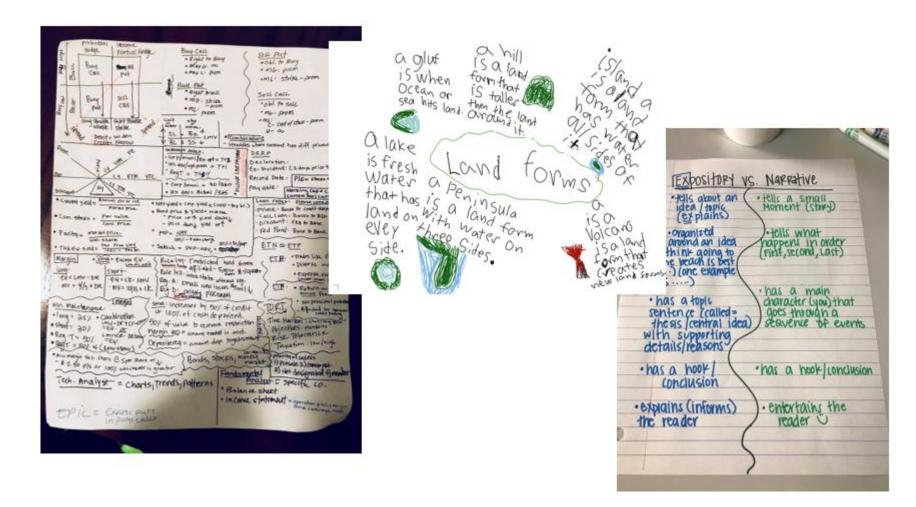
WHEN: beginning of 20 minute revision block

HOW:

- Take a blank piece of paper
- Write down (DUMP!) everything you know about the topic
 - No books
 - No notes
 - Be as messy as you like
- Time limit of 60 seconds
- Now revise the topic (15 minutes)
- Finally, go back to your DUMP and add everything you have learnt
 - Use a different colour pen

IMPACT: you should be able to add 7-15 new things to your DUMP

Examples of Brain Dumps



Top Tip: Repeat a brain dump regularly.

This will help identify which aspects of a topic you have **forgotten** to include. These are the areas you need to **focus on** when revising!

MIND MAPS

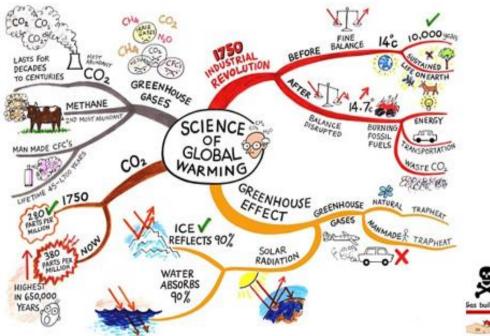
WHEN: to organise information from your exercise/text book.

HOW:

- Put the topic in the centre of a blank page
- Add big branches with the main ideas/themes of the topics
- · Add small branches to these with more detail
- Try to write only 1 or 2 words per branch
 - Focus on the key points only
- Add an image to each branch (dual code)
- Revisit your mind map next time you DUMP

IMPACT: whole topic with the key ideas on a single page.

Examples of Mind Maps



Top Tip: Use different **colours** for each branch of your mind map.

This helps your brain distinguish between each of the different information stems.

Top Tip: Use **'dual coding'** in your mind maps.

Dual coding means using both words and images to record the information you need to remember.



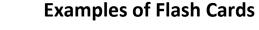
FLASH CARDS

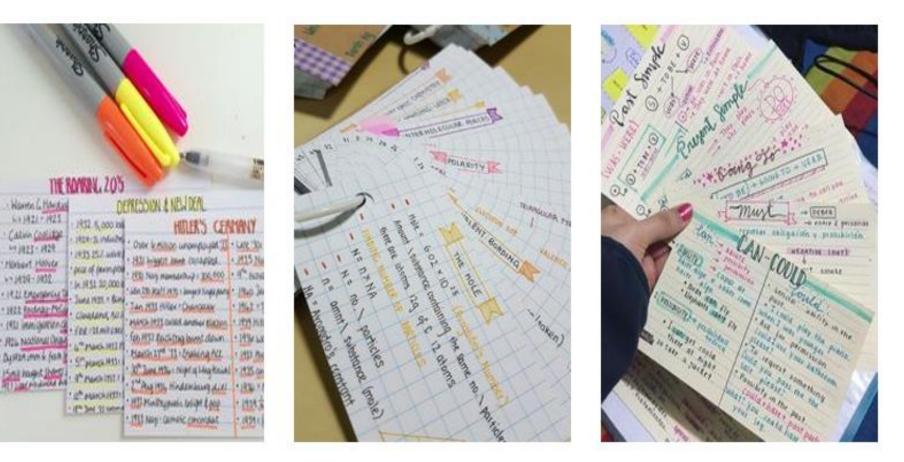
WHEN: to organise information from your exercise or text book.

HOW:

- Put a key question on one side
- Bullet point the key points that answer the question on the other side
- Put a formula / word on one side
- · Put the definition on the other side
- You might be able to group key formulae/words together
- Bullet point the key points of a topic on one card (use both sides)

IMPACT: great for targeting key questions/formulae/words that you are finding hard to remember. Easy to carry around.





Top Tip: Once you have created your flash cards, take a photo with your phone.

Create revision folders in your gallery so that you can revise in the car, on the bus... in fact anywhere when you've got a few spare minutes!

Mnemonics

WHEN: remembering a list of things or items in a particular order

HOW:

• Create a song, rhyme or poem using the first letter of each word in a sequence

For example:

- Richard of York gave battle in vain (to remember the colours of the rainbow)
- Red Orange Yellow Green Blue Indigo Violet



 Write out the first letter of each word in a sequence or list then make up your own rhyme

IMPACT: great for remembering sequences and orders of words relating to a topic.

Top Tip: Be creative when using mnemonics.

The sillier the rhyme, the more likely you are to remember it! **Repeat** the rhyme **regularly** to make sure it goes into your long term memory

Liskeard's Six Effective Learning Strategies

Check out the link on our school website for more information: http://www.liskeard.cornwall.sch.uk/students/six-strategies-for-effective-learning



Revision Websites

In addition to the website links within the subject pages, there are as a wide range of resources available online. Below is just a small section of those available.

https://www.educationquizzes.com/ks3/ https://www.bbc.com/bitesize/levels/z4kw2hv Resources for a wide range of subjects https://mathsmadeeasy.co.uk/ks3-revision/ https://www.senecalearning.com/

Interactive resources for a wide range of subjects Great for maths, also offers English and science resources Quick fire interactive questions across a range of subjects

Top Tip: Ask your teacher for a list of the topics you need to revise. Websites contain a lot of information, some of which that will not be relevant to your course. Make sure you revise everything you need to know!