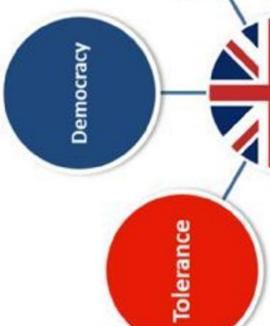
Year 8 Knowledge Organiser Spring Term 2021/22

Name: Form:



Core British Values

- unacceptable to dismiss the beliefs and opinions of I recognise that it is anyone.
- I understand that discussions about sensitive issues will be controlled and structured.
- I can influence the way the school runs through the school council and by talking to staff.
- I can influence my lessons through putting my hand up and responding.



I am free to think as I see fit.

Liberty

accountable for all my actions. I have the freedom to make choices that affect me but I recognise that I am



I take responsibility for all of

my actions - good or bad.

responsible for my learning

as my teacher.

I recognise that I am as

Respect

Responsibility

to promote and protect the

wellbeing of others.

We all have a responsibility

Law

- long as it does not promote I recognise that everyone is entitled to their opinion as extremism.
- I understand that everyone is entitled to a voice within the classroom.
- would like to be listened to. I will listen to others as I



I understand that the school rules are used to

Social - Moral - Spiritual - Cultural



Contents Page

Page	Content
4	Instructions for using your Knowledge Organiser
5	How to make the most of your Knowledge Organiser
6 – 9	Learning Strategies
10 – 11	Homework log and parental check
12 – 13	Reading log
14 – 15	Art
16 – 17	Citizenship
18 – 19	Computing
20 – 21	Drama
22 - 23	English
24 – 25	Food
26 – 27	French
28 – 29	Geography
30 – 31	German
32 - 33	History
34 – 35	Mathematics
36 – 37	Music
38 – 39	PE
40 – 41	Religious Studies
42 – 43	Science – Biology
44 – 45	Science – Physics
46 – 47	Spanish
48 – 49	Technology

Instructions for using your Knowledge Organiser

Every school day, you should study 1 to 2 subjects from your knowledge organiser for homework lasting at least 1 hour in total.

On pages 6 and 7 there is space for you to record the subjects you have studied to make sure you are giving equal time to all of them. Your parent should sign off your homework each evening on these pages.

Your parent should also sign your reading log on pages 8 and 9.

You can use the note pages in this booklet to help with your studies.

You need to bring your Knowledge Organiser to school every day. It will be checked regularly during form time.

You will be regularly tested on knowledge contained in this booklet in your lessons and through quizzes on Show My Homework.

Self-testing

You can use your Knowledge Organiser in a number of different ways but you should not just copy from the organiser. Use the following tips and guidance to help you get the most out of learning and revising your subject knowledge.

These are some possible tasks you could try:

- Ask someone to write questions for you
- Write your own challenging questions, leave them overnight and try answering them the next day
- Create mind maps
- Create flash cards
- Put the key words into new sentences
- Look, write, cover and check
- Write a mnemonic

- Use the 'clock' template to divide the information into smaller sections
- Give yourself a spelling test
- Give yourself a definition test
- Draw images and annotate/label them with extra information
- Do further research on the topic
- Create fact files
- Create flowcharts
- Draw diagrams

How to make the most of your knowledge organiser

Questions/Answers, Answers/Questions

Ask a parent, carer, study partner to write you questions (or answers) and then you write the answer (or possible question that would respond to that answer). You can also write your own questions but if you do this leave it until the next day before you answer them to see what you can remember after a break.

Always remember to check and correct

Flashcards

These are a very good and simple self-testing tool.

To make your own, take some card and cut into rectangles roughly 10cm x 6cm. Write the key word on one side and the definition on the other.

Then go through your cards looking at one side and seeing if you can remember the keyword/definition on the other side.

The Learning Scientists

As a trust, we have always been keen to find out more about how we learn and how we can support our students in their learning.

The Learning Scientists are a group of cognitive psychological scientists interested in research on education. Their main research focus is on the science of learning. (Hence, "The Learning Scientists"!)

Through decades of research, they have identified and developed six key learning strategies, which are explained over the next few pages. These are the main strategies we encourage our students to apply to their studies.

Please visit the Learning Scientists' website for more useful information, including blogs for parents to help support their children with their learning.

https://www.learningscientists.org/

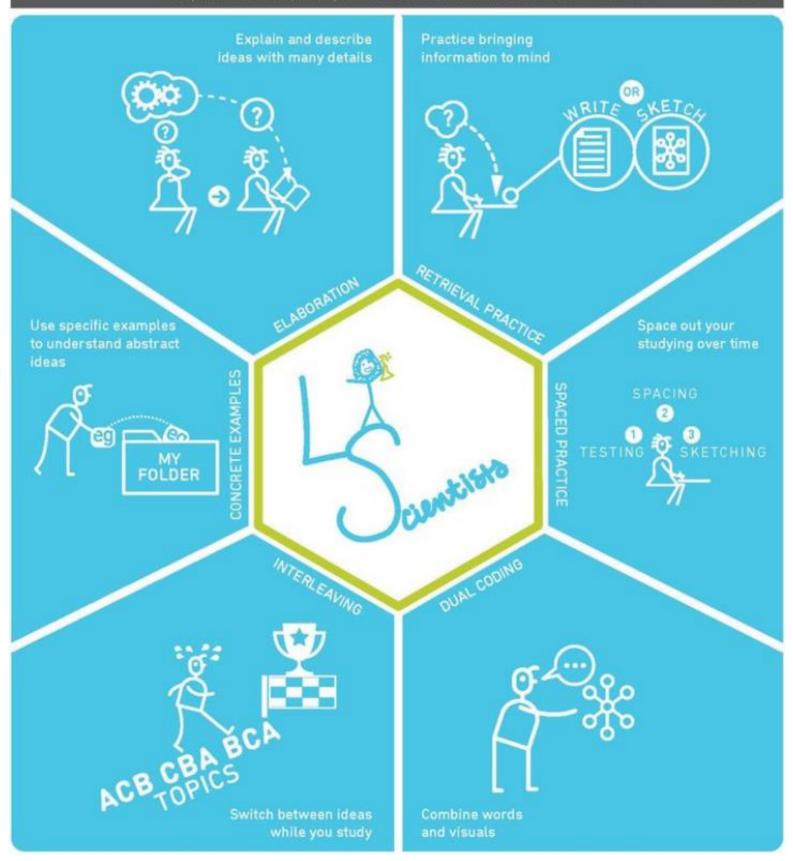


Six Strategies for Effective Learning

LEARNINGSCIENTISTS ORG

All of these strategies have supporting evidence from cognitive psychology. For each strategy, we explain how to do it, some points to consider, and where to find more information.







HOW TO DO IT

Start planning early for exams, and set aside a little bit of time every day. Five hours spread out over two weeks is better than the same five hours all at once.

Review information from each class, but not immediately after class.

After you review information from the most recent class, make sure to go back and study important older information to keep it fresh.

learningscientists.org



TRY IT NOW

Think of a topic you read about a few chapters back. What were the main ideas?

learningscientists.org



Put away your class materials, and write or sketch everything you know. Be as thorough as possible. Then, check your class materials for accuracy and important points you missed.

Take as many practice tests as you can get your hands on. If you don't have ready-made tests, try making your own and trading with a friend who has done the same.

You can also make flashcards. Just make sure you practice recalling the information on them, and go beyond definitions by thinking of links between ideas.

learningscientists.org



learningscientists.org

can from

memory.





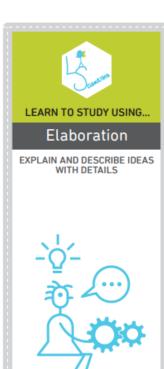
HOW TO DO IT

Ask yourself questions while you are studying about how things work and why, and then find the answers in your class materials and discuss them with your classmates.

As you elaborate, make connections between different ideas to explain how they work together. Take two ideas and think of ways they are similar and different

Describe how the ideas you are studying apply to your own experiences or memories. As you go through your day, make connections to the ideas you are learning in class.

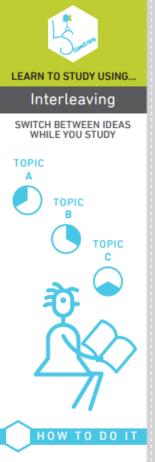
learningscientists.org



TRY IT NOW

Close the book and think about how what you just read connects to something you already know.

learningscientists.org

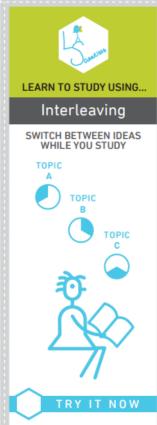


Switch between ideas during a study session. Don't study one idea for too long.

Go back over the ideas again in different orders to strengthen your understanding.

Make links between different ideas as you switch between them.

learningscientists.org



OK, you've read enough about this topic. Why don't you try to answer some questions about a different topic for a bit?

earningscientists.org





HOW TO DO IT

Collect examples your teacher has used, and look in your class materials for as many examples as you can find.

Make the link between the idea you are studying and each example, so that you understand how the example applies to the idea.

Share examples with friends, and explain them to each other for added benefits.

learningscientists.org

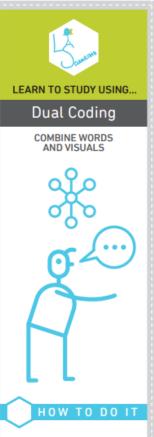




TRY IT NOW

Look around you: Can you find an example related to the idea you were just reading about?

learningscientists.org



Look at your class materials and find visuals. Look over the visuals and compare to the words.

Look at visuals, and explain in your own words what they mean.

Take information that you are trying to learn, and draw visuals to go along with it.

learningscientists.org



Now that you have read a bit, close the book and draw a visual that incorporates the main ideas.

learningscientists.org

Homework log and parental check

Week 1	Subject 1	Subject 2	Signed
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			
Week 2	Subject 1	Subject 2	Signed
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			
Week 3	Subject 1	Subject 2	Signed
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			
Week 4	Subject 1	Subject 2	Signed
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			
Week 5	Subject 1	Subject 2	Signed
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			
Week 6	Subject 1	Subject 2	Signed
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			
Week 7	Subject 1	Subject 2	Signed
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			

Homework log and parental check

Week 8	Subject 1	Subject 2	Signed
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			
Week 9	Subject 1	Subject 2	Signed
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			
Week 10	Subject 1	Subject 2	Signed
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			
Week 11	Subject 1	Subject 2	Signed
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			
Week 12	Subject 1	Subject 2	Signed
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			
Week 13	Subject 1	Subject 2	Signed
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			
Week 14	Subject 1	Subject 2	Signed
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			

Reading log

Use this reading log to record the books you read along with how long you have spent reading and the Accelerated Reader quizzes you have completed.

Tue Wed T	Thu Fri Sa	Sat Sun	Book(s) read (title and author)	Total time spent reading	Parent/Guardian /Staff signature

Reading log

Use this reading log to record the books you read along with how long you have spent reading and the Accelerated Reader quizzes you have completed.

Week	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Book(s) read (title and author)	Total time spent reading	Parent/Guardian /Staff signature
80										
6										
10										
11										
12										
13										
14										

Year 8 Spring Term Knowledge Organiser

Art - Typography- Printmaking:

paper. Printmaking normally covers only the process of creating prints that have an element of originality, rather than just being a photographic reproduction of a Printmaking is the process of creating artworks by printing, normally on image or a painting.

ns	A printing technique where a mesh or screen is used to transfer ink onto a surface, except in areas made impermeable to the ink by a blocking stencil.	Graphic designers create visual concepts, using computer software or by hand, to communicate ideas that inspire, inform, and captivate consumers. They develop the overall layout and designs for advertisements, brochures, magazines, and branding.
fic Language and Terms	Screen printing	Graphic Designer
Art Specific Langua	Typography is the art and technique of arranging type to make written language legible, readable, and appealing when displayed.	Lino-cut printing is a form of printmaking where the printing plate is cut into lino. The lino-cut is then inked, a piece of paper placed over it, and then run through a printing press or pressure applied by hand to transfer the ink to the paper.
	Typography	Lino-cut printing

Typographical Art:

14



Ronald Hunter





Craig Ward

Year 8 Spring Term Knowledge Organiser

Art - Typography- The Art of Lettering:

	Art Specific Language and Terms	age and Terr	ns
Typography	Typography is the art and technique of arranging type to make written language legible and appealing when displayed.	Leading	leading is the space between individual lines of type.
Typographer	A Typographer is someone who designs a typeface or who arranges type.	Display Typeface	A display typeface is a typeface that is used for visual impact, rather than for extended passages of text.
Kerning	kerning is the process of adjusting the spacing between letters.	Script Typeface	Script fonts can be formal scripts, derived from 17th century formal writing or styles that look informal or handwritten as well as calligraphic scripts which emulate calligraphy

Types of Font.

(without flicks) Sans-serif:

(with flicks) Serif:

AaBbCc

Sans is the French word for without.

weight or

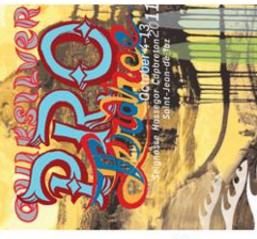
Changing the

Weight and Size:

of type changes the emphasis

Typography:

he art director for the and was perhaps the innovative magazine typography. He was David Carson is an designer. He is best magazine Ray Gun graphic designer of design, and use of American graphic most influential known for his experimental







Y8 CITIZENSHIP

how much you are able to expenditure (money spent which allows you work out A plan showing income (money coming in) and spend.

spent on public services like government by individuals and companies. This is the NHS and schools. Money paid to the

that one is bound to pay to something that is owed or or perform for another:

The Economy

and services (things done by of value. It is usually divided into goods (physical things) An economy is a system of making and trading things people).

he Annual Budget

the governments plans for taxes and public funds for spending and managing the year.

Money &

The Chancellor of the Exchequer

They are responsible for setting levels of tax that people must pay and inance minister and one of the most senior members of the Cabinet. Chancellor for short) is the government's chief he Chancellor of the Exchequer (called The

decides how much we will spend on public services across the UK. hey announce these changes each year in the annual





Public Services







and/or differences

Compare

Identify similarities

collected by the government. The taxes are taken from people's These are services provided to the public and paid for by taxes wages and used by the government to provide many essential services

Public services are available to everyone, usually for free. Every person in the UK is entitled to a free education and free healthcare via the NHS.

How are people paid for jobs?

The more hours you work, the more pay you'll receive. You your bank account. Some people get paid an hourly rale commission – this is mostly for sales jobs, when you receive when you earn a set amount for every hour that you work. normally receive the same amount of pay every month in produce, the more you'll be paid. Sometimes people get can get paid **piece work** – this is when you're paid a set amount for every Item you make. The more Items you If you get paid a salary, this is when you are told the amount of money you will eam in one year. You will a share of all the sales you make. Often you will get

Spring Term

Command Words	Argue case	Apply effect way
d Words	Present a reasoned case	Put your ideas into effect in a relevant way

Review and respond to given information	Present different perspectives on an issue	Set out main characteristics	Present a possible case/ solution	Present key points without detail
Consider	Debate	Outline	Suggest	Summarise

Making connections

How can you link different topics together?

Sovernment + budget + taxes Public services + budget Taxes + public services Debt + budget

he Chancellor + cabinet + public services Taxes + The Annual Budget + economy





What is a budget? A plan for what you will spend – with a timescale.



Y8 CITIZENSHIP

Constituency

area who elect an MP to The voters in a particular Parliament.

Manifesto

A statement of policies and aims, usually released around the time of a general election.

Government

The Prime Minister belongs General Election form the The Government is led by to the political party with the majority of the seats. The winning party in a the Prime Minister. government.

an elected representative who works in the House of Commons. There are 650 Member of Parliament all together.

Houses of Parliament

laws. Parliament makes sure to make decisions and pass where MPs and Peers meet that the government are Parliament is the place running the country properly.

Government

Politics &

A lack of interest in voting – usually because of a lack of Elections

political knowledge

Voter apathy

Parliament Act **Fixed Term** 2011

every five years. his is a piece of that means that egislation (law) Election must take place a General

vnning the police, prisons, law and Responsible for order and the ustice system. Secretary Home

axes – and preparing for the Government - how much is spent and how managing finances of much is collected in Responsible for the budget.

Chancellor

Secretary Defence

country, including armed forces and weapons.

defence of the Responsible for

charge of many aspects of The Government are in our daily lives, such as...

Command Words

Spring Term

- Education
 - Healthcare
 - Police
- Housing







MP's who are hand chosen The cabinet is a group of ike health, education and important departments... by the Prime Minister to the Treasury which is in charge of all the money help make important raised through taxes! decisions and run

Review and respond to given information Present a reasoned Present different perspectives on an effect in a relevant Put your ideas into and/or differences Identify similarities Present a possible Present key points without detail case/solution Set out main characteristics COSE ssue WOV Summarise Compare Consider Debate Suggest Outline Argue Apply

Who can and cannot vote?

107

Nayi

Over 18

» In the House or

On the electoral register

British Citizen

In prison Lords



Making Corning How can you link different topics together?

Democracy + MP + cabinet + Prime Minister

Computer Science – 8.2 Web Authoring Keywords

Web Authoring	Web Authoring is the process of using a graphical interface to create a web page or website. The advantage of using this method as opposed to straight HTML is that you can create the look of the finished product in an easier 'point and click' way. A disadvantage may be that the Web Authoring software generates more, unnecessary code that results in a bigger file size.
Template	A template is a pre-set layout that can be used instead of starting from scratch. This may take less time and look professional, however it may not meet your needs fully.
Response Forms	Interactive element. A way of allowing the user to input information through you website and have that information stored exactly as the user input it.
Interactive menu	Interactive element. Interactive menus can be used as an easy way to navigate a website without the need to remember command line instructions.
Image roll over	Interactive element. An image that allows the user to interact with the page. Usually this occurs when the user hovers the mouse over the image and the image changes in some way.
Web links	Interactive element. Shortcuts to places either within the website or sometimes external links that take the user to a linked website elsewhere.
Site search	Interactive element. A field that searches the site, usually, for keywords or phrases. The benefit of this is that the user is less likely to get 'lost' or frustrated and leave the site to access an alternative.
Audience	Which group of people is the Website being created for? The intended user of the website. This could be an age, gender, situation, religious group, occupation, ability or a mixture of them all.
Purpose	The purpose of a website relates to the reason that the site is in existence. This may be to sell, inform, teach, socially connect, promote, display information etc.
Root Folder	The folder that will contain all of the documents, flies and folders that relate to the website.
E-Safety	E-safety is safe and responsible use of technology on the computer and the internet.
Reliability	Reliability of information often comes down to the source, where you have got the information from. Did you get your information about todays weather from the Met office or Bob down the road? Which is likely to be more reliable? Who/where gave me the information, do I trust it? Why do I trust it?
Sitemap	The underpinning structure and navigation of a website.
Target Audience	When creating a product we often have a target audience in mind. That is, WHO are we making this product for? A website aimed at children may look remarkably different from a website aimed at adults who are sight impaired.
Target Audience needs	Different audiences will have different needs. For example, certain groups may need more or less colour, can handle different types and complexity of language, use bigger or smaller text, need more or less interactive features etc.
Accessibility features	Can everybody access your website? For those who struggle with small text is there a magnifier or narration option? High or low contrast version for those with certain conditions, etc.













Hover Effects: Text

Interactive

Change Color

Underline

Dropshadow







Search









Float in Space Suit 2.0

while??

...been waiting a

name = 'Chuck Norris' print(name) ARE WE THERE YET? ARE WE THERE YET? ARE WE THERE YET?

For x in range(3): print("Are we there yet?")

print(marvel[0] + " vs " + dcComics[2])

Capt. A vs Flash

marvel = ["Capt. A", 'Hulk', "Wolverine",
"Iron Man", "Black Widow"]

dcComics = ["Superman", "Wonder Woman"

"Flash", "Batman"]

Computer Science – 8.3 Python Keywords

print("Python is a High level language")

Comments	Comments are notes in programs that the compiler/interpreter ignore. In Python you write a comment by first typing a #
Variable	Is a space in memory to store some information, that we can be used later on in a program. This information can take on many forms it is therefore variable (it can change)
Data Types	Data Types are categories that define what a variable can store. Like in a child's game, the square brick must go in the square hole, and a round brick in a round hole.
String	String is a type (category) of variable. Strings are combinations of letters and or numbers. Anything in quotes is a string Fr example." "a" "ABCD" "123" "Hello world 123"
Integer or int	Integer or int is a type (category) of variable. An integer or int is a whole number. For example 1, 123, 1234567
Float	Float is a type (category) of variable. A float is a decimal number. E.G 1.2, 1.234, 0.123
Boolean	Boolean is a type (category) of variable. A Boolean can be True or False.
List	A List a is type (category) of variable. It can store multiple pieces of information in one variable. Lists can store a mixture of strings, ints, floats, even other lists. Think of it like a shopping list.
Cast/Casting	Casting means to change a variables type (Category). For Example int ("123") becomes 123, str(123) becomes "123", str(1.23) becomes "1.23" and float(123) becomes 123.0
Input Command	A way to get information into the computer when programming. E.G. input("Enter your name")
Output Command	A way to get information out of the computer when programming. E.G. print("Hi Bart")
Concatenation	Concatenation means to link or join things together. In programming we use it to "glue" strings together. For example "Cat" + "Hat" would become "CatHat"
Mathematical Operators	Are mathematical functions that can be preformed on integers and floats. For example add $(+)$, subtract $(-)$, multiply $(*)$ divide $(/)$, MOD $(\%)$, Integer Division $(//)$, exponent $(**)$
Assignment Operators	Are used to assign values to variables. For example = , += , -= , * = , $/$ =
Conditional Statements	A conditional statement is an if statement. If statements can be true or false (like a Boolean variable)
if elif else	How we deal with a conditional statement/selections. For example: if HomeworkNearlyDone print("1 hour of Xbox") elif HomeworkComplete print("You can play Xbox"), else print("Do your homework!")
Comparison Operators	Used with conditional statements if, elif, and else as all can be resolved to true or false. For example: == 'equal to', != 'not equal to', > 'greater than', < 'less than', > 'greater than or equal to', <= 'less than', < 'less than', >= 'greater than or equal to', <= 'less than or equal to'
Logical Operators	Used to combine conditional statements so they resolve to a single true or false answer. I.E. 'and' 'or' and 'not' For example if HomeworkDone and BedroomTidy print(" You can play Xbox")
Iteration	Means to do the same process over and over again in a loop.
for	A type of loop used in programming when we know how many time we want to iterate.
while	A type of loop used in programming when we do not know how many time we want to iterate.
Syntax Error	An errar im thee writan code. Like a spelling or grammatical error when writing a sentence.
Logic Error	When the code runs, but does not do what you expect. Logic errors are far harder to fix.

Orama - Bertolt Brecht 1898-1956

Brecht wanted theatre to be something completely different. He believed that theatre should be political as well as entertaining. He wanted his audiences to be wide awake and critical during the performance. He thought that most audiences of realistic theatre were passive. He wanted them to realise what they saw on stage was happening in a theatre. He sought to provoke an audience into reacting to what they saw on stage so they would try to change things in the outside world.



Techniques Brechtian

An actor speaking directly to the **ADDRESS** DIRECT

Brecht was a Communism Marxist and believed in

spectator, so that his audience would be able to respond to the drama objectively, learn

from it, not just watch it, and be entertained. This was called Verfremdungseffekt.

Brecht would use techniques which would create distance between actor and the

Explanation

Key Vocabulary

Verfremdungseffekt

or Alienation

Didactic

purpose. They are designed to educate the performers and audience on political and

Didactic theatre just mean to educate. Brecht wanted his plays to have educational

andience

Where parts of the play are narrated, rather than NARRATION

acting them, telling the audience what is going ou Perform more than one character in a drama Actors commonly ROLLING

SPEAKING STAGE DIRECTIONS

Combination of gesture, facial expressions & body language

to create meaning &

communicate a

SONG

message to udience

The actors speak the oudly directly to stage directions the audience projections which igns, placards or PLACARDS

o happen before each scene tell us what's going

> sometimes directly into the suddenly burst into song –

audience

frequently and Characters

a false sense of security and then hit them with Lull the audience into something shocking

Costume

Bare stage. All workings could be seen

and any changes to scenery are made

in full view of the audience. Using

fragments of scenery and single pieces

of furniture to suggest whole locations

echniques so that the audience were reminded throughout that they were watching

theatre; a presentation of life, not real life itself.

Re ordering of scenes

Cross Cutting

all times and who Perform together

Actors on stage at

ENSEMBLE

individual character's thoughts and feelings. He used a range of theatrical devices or

An epic play tells the story as a sequence of events rather than concentrating on an

Exaggerated Stereotype social issues in society.

Epic Theatre

Archetype

audience reinforcing the idea frequently change character clothing or prop was all that was used. An actor would or costume in front of the Often a single item of of alienation

Technical Ideologies

The stage was flooded with bright white light the entire time regardless of whether the scene was a summer day or winter evening Lighting

Unlike Stanislavski, Brecht wanted to break the 4th wall and include the audience in the performance, he did not want his plays to be watched for entrainment alone, he wanted them to help change society and make it better.

20

Practitioners studied so far in Drama

Stanislavski - Realism

Key Ideologies

- Method Acting
- Why do I need it? How will I get it? What Given Circumstances: Who am I? Where am I? What time is it? What do I want? do I need it for?
- Magic if
- **Emotion memory**
- Believing in what you are doing realism
 - Being expressive
- NOT breaking the 4th wall
- Costumes and set to be elaborate as they are in the real world.

Alter Ego - T.I.E

Key Ideology of T.I.E

- Educate the audience
- Based on social, moral, cultural or spiritual
- Multi-rolling and stereotypical characterisations
- Six key steps
- 1. Pick your audience
 - Pick your topic
- Research your topic က်
- Write your scene 4.
- Audience participation
- **Evaluate**

http://www.alteregocreativesolutions.co.uk

Fanatic Assembly - Physical Theatre

Key Ideologies

- Push boundaries of physicality and magination
- Help performer to understand how to use their body to tell a story.
- Breaking work into building blocks to create imaginative and creative work

Hymn Hands

Round-by-Trough

Push Hands Chair Duets

Picking

https://www.franticassembly.co.uk

Kneehigh - Improvisation

Key Ideology

- storytellers that make exciting theatre and Kneehigh are a collection of fearless love to take risks
- Kneehigh incorporate a number of different styles & techniques to create their work
- Kneehigh are politically minded and make theatre that both informs and entertains
- Kneehigh look to the world for inspiration and tell stories that reflect
- Kneehigh challenge traditional theatre https://www.kneehigh.co.uk

Complicité - Improvisation

Key Ideologies

- There is no Complicité method... What is essential is collaboration, and a turbulent forward momentum...
- Devises all its work.
- Bring together all different types of performers Has a eclectic style and performers
- Extensive research on topics
- Space is important where it is small or vast.
 - Ensemble work during rehearsal the company works together
- Rhythm both inner, seven states of tension and outer rhythm of the piece are important.

http://www.complicite.org

Sophocles - Greek theatre

Key Ideologies of Greek theatre

- Theatre was created to please the gods
- Three Genres- Comedy, Tragedy and Satyr
- Chorus would work as an ensemble and use Protagonists and a chorus of 12 to 15 men

unison, cannon and echo in their movement

- Body language needed to be large and Masks would be worn by all and voice.
- https://www.youtube.com/watch?v=sNWrOuwzax8&t=597s https://www.youtube.com/watch?v=VeTeK9kvxyo&t=244s Sounds were often made with body and voice



Year 8, Spring Term: Rhetoric

Core Text: Animal Farm (George Orwell)

Rhetoric is the art of using language to influence an audience. The foundations for this are defined by Greek philosopher, Aristotle, as ethos, logos, and pathos; these are known as the three rhetorical appeals. Ethos relates to ethics (doing the right thing); logos relates to logic (thinking the right thing); pathos relates to sympathy (feeling the right thing). Writers will use a number of rhetorical techniques to influence the audience's response.

Vocabulary

Influence Audience

Persuade Repetition

Manipulation Anaphora

Oppression Irony

Revolution Hyperbole

Proletariat Allusion

Propaganda Rhetorical Ques-

Purpose tions

Influence vs. Manipulation

Influence = to have an effect on the behaviour or thinking of somebody.

Manipulation = to control someone or something to your own advantage, often unfairly or dishonestly.



Allegory (noun)

a story, poem, or picture that can be interpreted to reveal a hidden meaning, typically a moral or political one. Animal Farm is an example of an allegory.

Communism (noun)

a theory or system of social organisation in which all property is owned by the community and each person contributes and receives according to their ability and needs. This is similar to 'animalism' in Animal Farm.

Writing Assessment:

Write a speech for your peers in which you persuade them to use so- Orwell's characterisation of Squealer highlights the idea of opcial media less or more.

Thinking Task: How will you use rhetoric to achieve your aim?

Reading Assessment:

How does Orwell explore the idea of oppression in Animal Farm? You must consider the use of rhetoric in your answer.

Thinking Task: Where in the text do we see examples of oppression?

Model Paragraph: What should it look like?

- Topic statement, linked to the question.
- Reference to the text, including the use of (embedded) quotations.
- Identification of rhetorical method(s).
- Analysis of the impact of rhetorical method(s).
- Concluding statement, linking methods to the key idea presented in the question (oppression).
- Next paragraph: building the argument (use a discourse marker).

Task: Label the paragraph on the right with these elements.

Example Paragraph

Orwell's characterisation of Squealer highlights the idea of oppression. When Boxer challenges Squealer about his assertion that Snowball is a 'traitor', claiming to have seen 'documents' which prove this, Squealer says that Napoleon has 'stated categorically—categorically, comrade—that Snowball was Jones's agent from the beginning', which Boxer than accepts, because 'if Comrade Napoleon says it, it must be right'. Squealer draws on the rhetorical appeal of ethos, exploiting Boxer's trust in Napoleon; this forces Boxer to change his perspective about Snowball and agree that he must be a traitor after all. Additionally, Orwell uses repetition of the word 'categorically', which emphasises the idea that Napoleon has no doubt at all that Snowball is a traitor, so Boxer should not doubt it either. The use of rhetoric to manipulate perspective is an effective way to oppress others.

Another example where Orwell explores oppression is through...



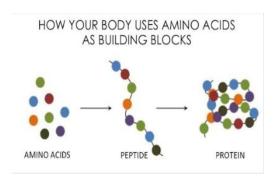
Topic 3: Protein – Meat, Poultry and Fish

Protein is one of the nutrients essential for life. It is needed for the growth and repair of our cells and for energy. Some groups of people need more protein than others, for example, children and pregnant women need more protein for growth.



Each protein molecule is made up of a combination of 20 amino acids. It is essential that we include certain amino acids in our diet because our bodies cannot make them. There are 8 essential amino acids for adults and 10 essential amino acids for children (the extra 2 are needed for growth).

Sources of protein that contain all of the essential amino acids are called High Biological Value (HBV) or complete proteins. Sources of protein that contain some of the essential amino acids are called Low Biological Value (LBV) or incomplete proteins.



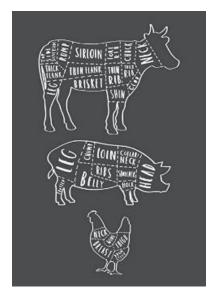
HBV proteins are mainly from animal sources. LBV proteins are mainly from plant sources such as beans,

nuts and seeds. When combining LBV proteins you can consume all the essential amino acids (LBV + LBV = HBV). An example of this is beans on toast. This is called protein complementation.

Meat is the muscle tissue of animals and it is high in protein, iron and B group vitamins. The main types of meat eaten in the UK are beef, pork and lamb. Meat from younger animals is tender and cooks quickly, meat from older animals is tougher and needs marinating or slow, moist cooking. Choose lean cuts of meat and mince, and eat less red and processed meat like bacon, ham and sausages.

Poultry are birds that are reared for eating. Popular poultry includes chicken, duck, turkey and goose. Poultry is high in protein and B vitamins and is lower in fat than meat. Poultry needs to be cooked thoroughly because it is a high risk food that can cause food poisoning.

Fish can be divided into three types, white, oily and shellfish. Fish is high in protein and you should aim for at least 2 portions of fish every week, 1 of which should be oily, such as salmon or mackerel, because it is high in vitamins A and D.



Topic 4: Protein – Eggs and Dairy Foods

Eggs are nutritious – they're a source of protein, vitamin D, vitamin A, vitamin B2, vitamin B12, folate and iodine. Eggs can be enjoyed as part of a healthy, balanced diet, but it's best to cook them without adding salt or fat, for example boiled or poached.

Eggs are produced by laying hens. Hens can be housed in cages or barns to lay their eggs or they can be 'free range' and have access to the outdoors. The British Lion Code of Practice ensures that eggs are produced to high standards – look out for eggs that have the Red Lion stamp.



Eggs are very versatile and can be used to make a wide range of sweet and savoury dishes including cakes, meringues and custard or savoury tarts, omelettes and Yorkshire puddings.

This is because the protein in eggs can denature (change shape) and coagulate (set). Proteins denature when heated, beaten or exposed to acidic foods such as lemon juice. Egg white becomes solid and turns white as it coagulates at 60C and egg yolk becomes solid at 70C.

Milk and dairy products, such as cheese and yoghurt, are great sources of protein and calcium. They can form part of a healthy, balanced diet, especially if you go for lower fat and lower sugar options.

Milk is supplied by dairy cows but it is also available from sheep and goats. You can look out for the Red Tractor logo on dairy foods. This is a quality assurance scheme that informs consumers that milk has been produced to high standards by UK farms.

The milk you buy in the shops is heat-treated to 72C to destroy bacteria. This process is called pasteurisation. Fresh milk should be stored in the fridge and will last 5 days. Longer life milk is also available. Ultra-heat treatment milk (UHT) is heated to 135C and can be stored at room temperature for about 6 months. Some or all of the fat in milk can be removed to make a healthier version so full fat (blue packaging), semi-skimmed (green packaging) and skimmed (red packaging) varieties are widely available.



Organiser
Knowledge
ing Term
Y8 Spring
French

What are your hobbies?

Unit 3: Les loisirs – Hobbies

have a smartphone

surf/blog/chat

shop online

play on my Xbox

never watch TV

read comics

go cycling

download songs

listen to music

create playlists

play football

	Qu'est-ce que tu	What do you	Qui es ta célébrité	Who is your favourite	rite Quels sont tes loisirs?
	aimes à la télé	like on TV	préférée ?	celebrity?	J'ai un smartphone
	J'aime/J'adore	I like/I love	Ma célébrité préférée	My favourite celebrity	ty Je surfe/Je blogue/Je chatte
	Je n'aime pas	I don't like	est	is	Je fais des achats en ligne
	Je déteste	l hate	parce qu'il/elle est	because he/she is	. Je crée des playlists
	les comédies	comedies	parce qu'il/elle n'est pas	because he/she isn't	t Je joue au foot
	les dessins animés	cartoons	intelligent(e)	intelligent	Je télécharge des chansons
	les feuilletons	soaps	arrogant(e)	arrogant	l'écoute de la musique
	les séries (policières)	(police) series	égoïste	selfish	le joue sur ma Xhox
	les documentaires	documentaries	drôle	funny	le fais du vélo
	les infos	the news	modeste	modest	Je lais du Velo
	les jeux (télévisés)	gameshows	généreux/généreuse	generous	Je ils des DD
	les émissions de	programmes	travailleur/travailleuse	hard-working	Je ne regarde jamais la tele
	sport	sports	beau/belle	good-looking	1
	cuisine	cooking	gentil/gentille	kind	Use unne prinases such as: so
	télé-réalité	reality TV	Remember to make the adjective ending agree for	ctive ending agree for	(sometimes), d'habitide (us
	musique	music	masculine/feminine.		tne time) to make your work i
	science-fiction	science fiction	l a tóló	Λ1	
	Mon émission	My favourite		A 1 - 1 - 1	On va au ciné ?
2	Dréférée c'est	programme is	Je regarde la tele	I watch I v	Je vais au cinéma ce soir.

times), d'habitide (usually), tout le temps (all me phrases such as: souvent (often), parfois ne) to make your work more interesting. Shall we go to the cinema?

"m going to the cinema

I'm going to see...

this evening

an animated film

a comedy

a romantic film

an action film

a sci-fi film

		le matin	le soir	ey le weekend	à la maison	dans le bus	chez mes a mi	senl(e)	d avec ma famill	avec mes cop	sur ma tablette	smartphone	à la demande	ing C'est facile	Ce n'est nas
V 12/01/11/10	programme is		Why?	Because they	are	ridiculous	entertaining	exciting	action-packed	rubbish	funny	stupid	boring	adjective end	ninina
Monamenta	préférée c'est		Pourquoi?	Parce qu'ils/elles	sont	ridicules	divertissant(e)s	passionnant(e)s	plein(e)s d'action	nuls/nulles	marrant(e)s	bêtes	ennuyeux/ennuyeuses boring	Remember to make the adjective ending	agree for masculine/feminine

C years on all	Oli va au cinéma co soir	Je vais au ciliellia ce soil.	le vais voir	upe comédie	un film d'animation	un film romantique	un film d'action	un film de science-fiction	un film de super-héros	un film d'horreur	Til viens 2	Oni is very hien !	Désolé(e) je ne neux nas	Rendez-vous à quelle heure?	Rendez vous chez moi à 19h
2	I watch TV	in the morning	in the evening	at the weekend	at home	on the bus	at my friends' house	alone	with my family	with my friends	on my	tablet/smartphone	on demand	It's easy	It's not expensive
La télé	Je regarde la télé	le matin	le soir	le weekend	à la maison	dans le bus	chez mes a mis	senl(e)	avec ma famille	avec mes copains	sur ma tablette/mon	smartphone	à la demande	C'est facile	Ce n'est pas cher

ives	tive expressions around the verb:	rien (nothing/notanything)	I do not have a computer	I do not do sport	I never play video games	I do not read anything	l do nothing online
Negatives	To make a sentence negative, wrap negative expressions around the verb:	ne/n' + pas (not) jamais (never)	Je n 'ai pas d'ordinateur	Je ne fais pas de sport	Je ne joue jamais à des jeux vidéo	Je ne lis rien	Je ne fais rien en ligne

Nith whom do you watch TV? **Where** do you watch TV? When do you watch TV?

a question word + est-ce que and the tu form of the verb :

Quand est-ce que tu regardes la télé? Où est-ce que tu regardes la télé?

You can form a range of questions by using:

Question words

How do you watch TV? What do you watch?

Comment est-ce que tu regardes la télé?

Qu'est-ce que tu regardes?

Avec qui est-ce que tu regardes la télé?

Meet at my house at 7pm

When shall we meet?

Are you coming?

Yes, I'd like to!

Sorry, I can't

a superhero film

a horror film

French Y8 Spring Term Knowledge Organiser

Where do you live?	l live	in a (small) village	in a (large) town	in the countryside	in the mountains	by the seaside	in England	in Switzerland	in Morocco	in the French	Caribbean
Où habites-tu ?	J'habite	dans un (petit) village	dans une (grande) ville	à la campagne	à la montagne	au bord de la mer	en Angleterre	en Suisse	au Maroc	aux Antilles	

C'est comment ?	What's it like?
J'aime mon village	I like my village
Je n'aime pas ma ville	I don't like my town
C'est	It is
Ce n'est pas	It isn't
animé	lively
calme/tranquille	quiet/peaceful
ennuyeux	boring
joli	pretty
lnu	rubbish
historique	historic
touristique	touristic
moche	dign

Quel temps fait-il ?	What's the weather
	like?
Il fait beau	The weather's good
II fait mauvais	The weather's bad
Il fait chaud	It's hot
II fait froid	It's cold
II y a du soleil	It's sunny
Il y a du vent	It's windy
Il y a du brouillard	It's foggy
II y a des orages	It's stormy
II neige	It snows/it's snowing
II pleut	It rains/it's raining
En été	In summer
En hiver	In winter
En automne	In autumn
Au printemps	In spring

Qu'est-ce qu'on peut	What can you do i
faire dans ta région?	your area?
Dans ma région on	In my area you
peut	can
manger des crêpes	eat crêpes/
Manger du fastfood	eat fast food
visiter les monuments	visit monuments
visiter des grottes	visit some caves
aller au marché	go to the market
aller au cinéma	go to the cinema
aller en ville	go into town
aller à la plage	go to the beach
faire les magasins	go shopping
faire les randonnées	go walking
faire du canoë-kayak	go canoeing
faire du ski	go skiing

Elle est comment, ta	Elle est comment, ta What's vour area like?	
région ?		Je
Dans ma région	In my region	2
il y a des	There are some	IIE
l y a beaucoup de	There's lots of	Š
l y a trop de	There's too many	٧٥٢
l y a plein de	There's plenty of	IIs/
l y a peu de	There's not many of	Ċ
il n'y a pas de	There isn't any	3
lacs	lakes	1
touristes	tourists	2 2
champs	fields	E
plages	beaches	lave
voitures	cars	ranc
montagnes	mountains	nou
bâtiments	buildings	faire
rivières	rivers	faire
jardins publics	parks	gard
distractions pour les	things for young people	faire
jennes	to do	sort
magasins	shops	bas
forêts	forests	pror

Unit 4: Ma région – My area

•	The verb POUVOIR (To be able to)	The verb POUVOIR is an irregular modal verb. It is usually followed by an infinitive:	On peut aller au cinéma – You can go to the cinema	I can	You can	He/She/We can	We can	You (pl). can	They can	The verb DEVOIR (To have to/must)	The verb DEVOIR is an irregular modal verb. It is	ın infinitive :	Je dois laver la voiture - I have to wash the car	I have to	You have to	He/She/We have to	We have to	You (pl). have to	They have to
	The verb PC	The verb POUVOIR is an irregula usually followed by an infinitive:	On peut aller au cine	Je benx	Tu peux	II/Elle/On peut	Nous pouvons	Vous pouvez	IIs/Elles peuvent	The verb DE	The verb DEVOIR is	usually followed by an infinitive:	Je dois laver la voitu	Je dois	Tu dois	II/Elle/On doit	Nous devons	Vous devez	IIs/Elles doivent

Qu'est-ce que tu dois faire	What do you have to
à la maison	do at home?
Je dois	I have to
Ma sœur/Mon frère doit	My sister/brother
	has to
laver la voiture	wash the car
ranger ma chambre	tidy my room
nourrir les animaux	feed the animals
faire la cuisine	do the cooking
faire la vaisselle	wash the dishes
garder le bébé	look after the baby
faire la lessive	do the washing
sortir la poubelle	take the rubbish out
passer l'aspirateur	do the vacuuming
promener le chien	walk the dog

Year 8 Geography: Population

The World's Megacities Are Set for Major Growth Population growth of the world's top 15 megacities (millions, 2011-2025)	Mexico City 24m (+29%) 33m (+43%) Beijing	Karachi 14m 20m (+47%)		100 Maria	Rio de Janeiro	14cm (+17%)	I6m (+23%)	19m (+36%) Marila	, e	TAM CANADA	ne including menapolitan at		
Definition	The number of people living in a geographical	2	A large city with a population over 10 million.	The number of people per unit of area, usually	quoted per square kilometre or square mile.	The number of babies born every year per 1000	people in a population.	The number of deaths that occur every year per 🔄	1000 people in a population.	A graphical illustration that shows how many	males and females of different age groups are in 🌃 🎯	a population.	
Key Term	Population		Megacity	Population	density	Birth rate		Death rate		Population	pyramid		

Key ideas

The world population is expected to reach 8 billion people by 2023. Currently the highest levels of population growth are in the continents of Asia and Africa. Population growth in most parts of Europe is slowing or declining.

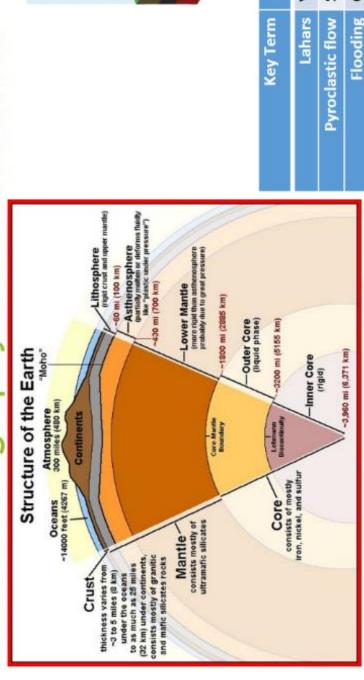
in the last forty years, to 33 million, while at the same time the birth rate has declined. This has created social and economic increase in the average age of the population. In Japan, the number of people aged 65 years or older nearly has quadrupled An ageing population occurs due to rising life expectancy and a declining birth rate within a population. This causes an problems for Japan.

having one child. The Chinese government was afraid that its birth rate was too high, and it would not be able to care for The One Child Policy was a policy introduced in China, between 1979 and 2015, that limited most families to only its population. The policy was relaxed in 2015 and most families are now permitted to have two children.

Year 8 Geography: Plate Tectonics

Ash, steam and gas

Volcanic bombs



Secondary vent

Key TermDefinitionLaharsVolcanic mudslidePyroclastic flowSuper-heated explosionFloodingGlacier melt or river overflowAsh cloudsDense ash plumesVolcanic bombsFlying molten rock

Magma chamber

Earthquakes and volcanoes are primarily found at plate boundaries. The plates are like giant rafts that slowly move around. At the boundaries between plates, molten magma is able to force its way to the surface and escape as lava.

Key ideas

An earthquake is a sudden shockwave caused by rocks being under stress from the movements of plates at plate boundaries. Eventually the stress in the rock builds up enough to deform and reach breaking point. At that point, the stored up energy is released in the form of shockwaves.

Composite (layers)

Destructive

Shield

Constructive

Unlike earthquakes, volcanoes can also have a positive impact on an area. Examples include income from tourism, geothermal energy and fertile soil for agriculture.

Type of volcano

Type of plate boundary

Fissure (vent)

Conservative

Y8 German - Spring Term 1

Das Frühstück Breakfast der/das Joghurt voghurt der Käse cheese der Schinken ham der Speck bacon der Toast toast der Kaffee coffee der Tee tea der Orangensaft orange juice das Butter butter die Marmelade iam die Orangenmarmelade marmalade die Milch milk die heiße Schokolade hot chocolate das Brötchen roll das Obst fruit das Ei/Eier egg(s) die Frühstücksflocken

Was isst du zum Frühstück?

What do you eat for breakfast?

cereal

ich esse einen Joghurt I eat a yoghurt ein Brötchen mit Butter und Marmelade

a roll with butter and jam

ich esse kein Frühstück

I don't eat any breakfast

Die Speisekarte Menu

(der) Fisch mit Reis und Erbsen

fish with rice and peas

(der) Flammkuchen Flammkuchen mit Sauerkraut with pickled cabbage

(die) Bratwurst mit Eiern

fried sausage with eggs

(die) Gemüsesuppe mit Brötchen

vegetable soup with a roll

(das) Hähnchen mit Pommes und Karotten

chicken with chips and carrots

(das) Schnitzel mit Kartoffeln

pork fillet in breadcrumbs with potatoes

Mealtimes Die Mahlzeiten die Vorspeise the starter die Hauptspeise the main die Nachspeise dessert

Wie ist das? What is it like? süß sweet

lecker delicious sour köstlich tasty sauer gesund healthy salzig salty ungesund unhealthy scharf spicy

vegetarisch vegetarian ekelhaft disgusting

Im Restaurant In the restaurant

Was nimmst du? What are you having? ich nehme... I'll take / I'm having...

den Fisch the fish

die Gemüsesuppe the vegetable soup

das Hähnchen the chicken

Mein Lieblingssandwich

My favourite sandwich

das Ketchup ketchup der Senf mustard der Thunfisch tuna fish die Erdnussbutter peanut butter die Gurke(n) gherkin(s) die Mayo mayonnaise

die Olive(n) olive(s) der Käse cheese

Gesund bleiben Staying healthy

man muss... One / you / people must...

acht Stunden schlafen sleep for eight hours

wenig Fett und Zucker essen

eat little fat and sugar

viel Obst und Gemüse essen

eat lots of fruit and vegetables

mehr Wasser trinken drink more water früh ins Bett gehen go to bed early

drei Stunden trainieren exercise for three hours

Oft benutze Wörter High-frequency words

normalerweise usually gestern vesterday

in / into bis until in früh early auf on

spat late mehr more wenig little

less / fewer weniger oft often

besser better

mein my / dein your / sein his / ihr her

ohne without with

Five key words

der Schinken ham

er isst he is eating / he eats

das Frühstück breakfast

less / fewer weniger

Obst und Gemüse fruit and vegetables

Y8 German - Spring Term 2

In der Jugendherberge In the youth hostel

die Hausordnung rules of the house

Man muss vor 22:00 Uhr ins Bett gehen.

You have to go to bed before ten o'clock.

Man muss das Bett machen. You have to make the bed.

Man muss das Zimmer sauber halten.

You have to keep the room clean.

Man muss vor acht Uhr aufstehen.

You have to get up before eight o'clock.

Man muss abwaschen. You have to wash up.

Man darf nicht rauchen. You must not smoke.

Man darf nicht im Zimmer essen.

You must not eat in the room.

Man darf keine laute Musik hören.

You are not allowed to listen to loud music.

5 Key Words

halb sieben half past six

Viertel quarter

Das macht Spaß it is fun

die Haltestelle (bus) stop

man muss you have to

Der Tagesablauf Daily routine

ich stehe auf. 1 get up.

Ich wasche / dusche mich. I get washed / shower.

ich ziehe mich an. I get dressed.

Ich frühstücke. I have breakfast.

Ich gehe aus. I go out.
Ick komme zurück. I come back.
Ich esse zu Abend. I have dinner.

Ich gehe ins Bett. I go to bed.

Um wie viel Uhr? At what time?

um ... Uhr at ... o'clock

um fünf / zehn / zwanzig / nach...

at five / ten / twenty past...

um fünfundzwanzig vor... at twenty-five to...
um Viertel nach ... at quarter past
um Viertel vor... at quarter to
um halb acht at half past seven

Wie komme ich zum / zur ...? How do I get to the ...?

 Geh / Geht / Gehen Sie ...!
 Go ...!

 (nach) licks
 (to the) left

 (nach) rechts
 (to the) right

 geradeaus
 stroight on

 Nimm / Nehmt / Nehmen Sie ...!
 Take ...!

die erste Straße links the first street on the left
die zweite Straße rechts the second street on the right
Geh an der Ampel links! Go left at the traffic lights.
Geh an der Kreuzung rechts! Go right at the crossroads.

der Bahnhof station
der Park park
die Bushaltestelle bus stop
die Kirche church
das Schwimmbad swimming

das Schwimmbad swimming pool das Hallenbad Indoor swimming pool

das Museum museum der Markt market (place) der Lehrer teacher (male) die Lehrerin teacher (female) das Souvenirgeschäft souvenir shop die Imbissstube snack bar ice cream parlour das Eiscafé vor dem / der... in front of the ... Entschuldigung / Bitte, Excuse me, ...

Auf einem Fest At a festival

der Umzug("-e) procession / parade der Festwagen (-) float (in a parade)

die Band (s) band, group das Kostüm(e) costume / outfit

der Hut("-e) hat
die Fahne(n) flag
die Kirmes/Kirmsen funfair

das Fahrkartengeschäft(e) ride (at a funfair)

der Imbiss(e) snack bunt colourful Oft benutze Wörter High-frequency words

zu (zum / zur) to (to the)

vor before, in front of

 groß
 big

 lang
 long

 laut
 loud

 lecker
 tasty

 schön
 nice

 toll
 great

Das macht Spaß. That's fun.

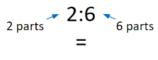
Das hat Spaß gemacht. That was fun.

			Key Words	Definition	Reasons for the industrial
	I	Hictory	Enclosure	Areas of land were divided up into fields owned by one person.	revolution factories transport
		7	Revolution	A great change	ייייייין ומכנטובה, נומווהסטור
			Domestic system	Families working at home producing goods together.	and inventions.
		Chronology	Selective Breeding	Allowing the best animals to breed, so only the best characteristics of animals are passed on.	
			Mechanised	Machines are used rather then just people.	Ream Steam ramous house
	1750	Considered to be the start	Pauper Apprentice	Children often orphans that were sent to work in factories by local authorities.	E C
			Coal	A hard back rock that burns for much longer then wood.	
	1769	Spinning frame was	Iron ore	A rock containing iron that can be dug from the ground. Could be used to create iron tools.	2 Steam
		big to use as home and factories were created.	Canal	Long man made channels filled with water that could be used to transport heavy and fragile goods.	iston nder.
			Luddites	Groups of people that rebelled over fear of losing their jobs, to new machines.	circular one - which turns
3:	1781	James Watt developed a new steam engine that	British Empire	A collection of countries and colonies (areas) that Britain controls around the world.	
2		could turn a wheel.	Entrepreneurs	People that could turn new ideas and inventions into money.	
	15				
	1804	Richard Trevithick shows	Key People	Role	
		steam train.	James Watt	Developed the steam engine so it could turn wheels, and power machines.	1 Water Lums to Lums to Land
	1830	Liverpool to Manchester	Richard Trevithick	Credited with inventing the steam train	stearn,
	3	railway opened.	George	Inventor, who developed steam trains including the Rocket.	
10	1831	Faraday discovered how to generate electricity.	Stephenson		
	1833	Factory Act. Stonned	Michael Faraday	Inventor who was expert with electricity. Invented the electric motor.	William
	2	children under 9 working in factories.	Ada Lovelace	Programmer of an adding machine. Viewed as the worlds first computer programmer.	Wheel attached to belts that drive factory machines.
	1833	Brunel opened the Great Western Railway	Isambard Kingdom Brunel	Inventor, designed railways, bridges, ships and communication cables from Britain to America.	
	1876	Alexander Graham Bell invented the telephone.	Alexander Graham Bell	Invented the telephone.	

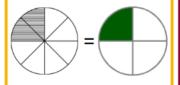
		Industrial revolution	Industrial revolution: Living and working conditions, disease, crime and punishment	ease, crime and p	unishment
	History	Key Words		Def	Definition
	1	Back to back houses	A housing system that was built around a courtyard where houses were built back to back.	yard where houses we	e built back to back.
		Typhoid	Disease caused by contaminated water. Gives headaches, fever and diarrhoea	headaches, fever and	iarrhoea.
		Tuberculosis	Disease of the lungs, causes shortness of breath and chest pains	th and chest pains	
	Chronology	Cholera	Caused by contaminated water. Gives diarrhoea, makes people turn black and blue	a, makes people turn b	ack and blue.
17.	1749 The Bow Street Runners	Sewers	The system of underground pipes and tunnels that remove sewage from towns and cities.	that remove sewage fro	m towns and cities.
		Classes	Divisions in society based on income, housing, family tradition and social life.	family tradition and so	ial life.
1823	23 Prison Reform Act. Jailers	The watch	People in bigger towns that were paid to patrol the streets at night.	the streets at night.	
	were paid by the government not the	Magistrates	Volunteers that could question suspects in cour courts.	t and punish people fo	Volunteers that could question suspects in court and punish people for minor crimes. They would send more serious crimes to professional courts.
	prisoners. Male and female prisoners were	Constables	Unpaid volunteers who would organise the watch and help magistrates by catching criminals.	ch and help magistrate	by catching criminals.
	kept separately.	Capital offence	Crime that you could be executed for committing. Often by public hanging	ig. Often by public han	ing.
	\dashv	Transportation	Being sent overseas often to the USA or Australia after being convicted of committing a crime.	alia after being convicte	d of committing a crime.
	1829 The Metropolitan Police Force set up.	The Bow Street Runners	 Group that would catch criminals around Bow Street in London. Especially good at stopping highway robberies.	street in London. Espec	ially good at stopping highway robberies.
1831	31 First major Cholera				
	outbreak in Britain.	The Metropolitan Police	Police force set up in London.	Key People	<u>a</u> 00
1842	42 Chadwick's report into			ney i copie	91001
		The Social Pyramid	100	Edwin Chadwick	Wrote a report about poor conditions in towns and cities, thought diseases were caused by bad air and deaths happen where there is
1848		The very rich	(About 100,000	John Snow	Made the link between contaminated water and Cholera.
	public money on cleaning up towns and cities.	The upper class	(beople)	Florence Nightingale	Led a team of nurses during the Crimean War, improved conditions for soldiers and then revolutionised nursing in Britain.
18	1854 John Snow finds that Cholera was caused by	Upper middle		Joseph Bazalgette	Created the sewage system in London.
	contaminated drinking water.	Lower middle	2 million	Henry and John Fielding	Set up the Bow Street Runners
18	1870 London sewer system was completed	Class		Robert Peel	Set up the Metropolitan Police Force
1888	+	Working Class	15 millio, people)	Elizabeth Fry	Prison reformer. She taught women and children in prison and campaigned for better conditions in prisons
	Whitechapel London.			Jack the Ripper	Serial killer in Whitechapel who was never convicted.

Year 8 Knowledge Organiser RATIO

Key Concept



1:3



$$\frac{2}{8} = \frac{1}{4}$$

Key Words

Ratio: Relationship between two numbers.

Part: This is the numeric value '1' of, would be equivalent

Simplify: Divide both parts of a ratio by the same number.

Equivalent: Equal in value.

Convert: Change from one form to another.

Examples

Simplify 60:40:100 Write 2:5 in

one step by $\div 2$ dividing by 20. 3:2:5

the ratio 2:7

£10 : £35

Write 2: 5 in the form 1: n

$$\div 2 \begin{pmatrix} 2:5 \\ 1:2.5 \end{pmatrix} \div 2$$

Joy and Martin share money in the ratio 2:5. Martin gets

£18 more than Joy. How much do they each get?





Tip

It's often useful to write the letters above the ratio. This helps you keep the order the correct way round.

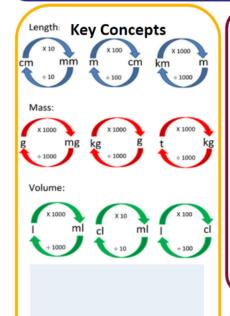
Questions

£12:£30

- 1) Simplify a) 45:63 b) 66:44 c) 320:440
- 2) Write in the form 1: n a) 5:10 b) 4:6 c) $x: x^2 + x$
- 3) Share 64 in the ratio 3:5 4) Write the ratio 1:4 as a fraction.

ANSWERS: 1) a) 5:7 b) 3:2 c) 8:11 2) a) 1:2 b) 1:1.5 c) 1:x + 1 3) 24:40 4) $\frac{1}{5}$

Year 8 Knowledge Organiser UNIT CONVERSION



Speed = Distance ÷ Time
Distance = Speed x Time
Time = Distance ÷ Speed

Key Words

Metric – mm, cm, m, km etc.

Imperial – pounds, stone, pints etc.

Length

Weight / Mass

Capacity

Examples

Convert 30cm to mm $30 \times 10 = 300$ mm

Convert 400mm to cm $400 \div 10 = 40cm$

Speed = 4mph

Time = 2 hours

Find the Distance.

$$D = S \times T$$

$$= 4 \times 2$$

$$= 8 \text{ miles}$$

k hegartymaths Clip Numbers 694, 697, 699, 705, 706, 716, 714, 716-724

Questions

- 1) Covert a) 50cm to mm b) 3kg to g c) 3000 m to km
- 2) Convert a) 5 gallons to litres b) 8.8 pounds to kg
- 3) The distance travelled on a journey is 60 miles and it took 2 hours. How fast were they travelling?

ANSWERS: 1) a) 500mm b) 3000g c) 3km 2) a) 22.5litres b) 4kg 3) 30mph

Year 8

FOUR OPERATIONS WITH FRACTIONS

Key Concept

Mixed numbers

These are made up of a whole number and a fraction.

$$4\frac{3}{5}$$

$$=\frac{20}{5}+\frac{3}{5}$$

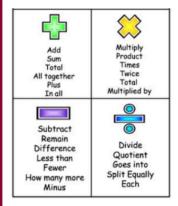
$$=\frac{23}{5}$$

An improper

fraction is when the numerator is larger than the denominator

🔑 hegartymaths **Clip Numbers** 63-66, 68-71

Key Words



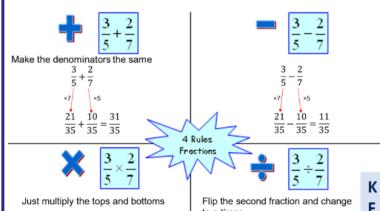
A reciprocal is the value that when multiplied by another gives the answer of 1.

Eg. $\frac{1}{8}$ is the reciprocal of 8. $\frac{2}{5}$ is the reciprocal of $\frac{5}{2}$

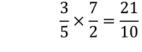
Tip

- To find equivalent fractions multiply/divide the numerator and denominator by the same number.

Examples



$$=\frac{3\times2}{5\times7}=\frac{6}{35}$$



1)
$$\frac{2}{7} + \frac{5}{8}$$
 2) $\frac{7}{9} - \frac{2}{5}$ 3) $\frac{3}{7} \times \frac{4}{9}$ 4) $\frac{3}{11} \div \frac{14}{22}$
What is the reciprocal of: 5) $\frac{2}{3}$ 6) 9 7) 0.75

ANSWERS: 1) $\frac{51}{56}$ 2) $\frac{17}{45}$ 3) $\frac{4}{21}$ 4) $\frac{3}{7}$ 5) $\frac{3}{2}$ 6) $\frac{1}{9}$ 7) $\frac{4}{3}$

Year 8

4 OPERATIONS WITH MIXED NUMBERS

Key Concepts

An improper fraction is when the numerator is larger than the denominator e.g. $\frac{20}{12}$

Converting from a mixed number

$$2 \frac{3}{5} = \frac{10}{5} + \frac{3}{5} = \frac{13}{5}$$

An integer is a whole number.

$$3 \times \frac{2}{7} = \frac{2}{7} + \frac{2}{7} + \frac{2}{7} = \frac{6}{7}$$
OR
$$3 \times \frac{2}{7} = \frac{3 \times 2}{7} = \frac{6}{7}$$

$$\frac{3}{5} \div 6 = \frac{3}{5} \times \frac{1}{6} = \frac{3}{30} = \frac{1}{10}$$

& hegartymaths 61-71

 $1\frac{2}{3} + 2\frac{1}{4}$ $2\frac{2}{3} - 1\frac{1}{4}$ $1\frac{1}{3} \times 2\frac{3}{4}$ $2\frac{1}{3} \div 1\frac{3}{5}$

 $= \frac{5}{3} + \frac{9}{4}$ Convert into an improper fraction $= \frac{8}{3} - \frac{5}{4}$ $= \frac{4}{3} \times \frac{11}{4}$ $= \frac{4}{3} \times \frac{11}{4}$

 $=3\frac{11}{12}$

 $= \frac{20}{12} + \frac{27}{12} \xrightarrow{\text{denominator}} = \frac{32}{12} - \frac{15}{12}$

Convert back into a mixed number $= 1\frac{5}{12}$ $= 3\frac{8}{12}$

 $=\frac{7}{3}\times\frac{5}{8}$...and multiply

 $=1\frac{11}{24}$

Examples

Key Words

Fraction Equivalent

Reciprocal Numerator

Denominator Improper/Top heavy Mixed number

1) $1\frac{2}{3} + 2\frac{3}{4}$ 3) $3\frac{1}{5} \times 1\frac{2}{3}$ 5) $\frac{2}{5} \times 7$

2) $3\frac{3}{4} - 1\frac{1}{3}$ 4) $1\frac{3}{5} \div 2\frac{7}{10}$ 6) $\frac{3}{5} \div 9$

ANSWERS A 1) $4\frac{5}{12}$ 2) $2\frac{5}{12}$ 3) $5\frac{1}{3}$ 4) $\frac{16}{27}$ 5) $\frac{14}{5}$ = $2\frac{4}{5}$ 6) $\frac{3}{45}$ = $\frac{1}{15}$

Music - Blues Music

Δn	intro	ductio	n to R	LIES	Music
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Blues is a style of music that originated from African-American slaves. The basic musical pattern is based upon a chord pattern known as the 12 Bar Blues, and eventually provided the basis for Rock and Roll music in the 1950s

in the 1950s				
Key Term – Chords/Harmony				
Reviewing and developing knowledge of chords and triads from pervious units (Y7/T2, Y8/T1)				
12 bar Blue				
Chord	IV IV I I			
Sequence	V IV I V			
Walking Bass	Bar Blues Chord Sequence.			
	Key term - Melody			
Reviewing	and developing knowledge of melody and melodic construction from pervious units (Y7/T1)			
Blues Scale	A scale with flattened 3 rd and 7 th degrees to create 'Blue Notes'			
Pentatonic Scale	A pentatonic scale has five notes, and many melodies in blues and other genres are made from the pentatonic scale.			
Riff	A short repeating pattern of notes. In classical music this is also called and 'Ostinato'			
Improvisation	Creating or performing spontaneously or 'on the spot'.			
Call & response	One person plays (or sings) a musical phrase which is then responded to by a group performing a different phrase, like a musical conversation.			

	Key term - Rhythm
Swung Rhythms	A distinctive rhythmic style often found in the Blues and Jazz music where quavers are played in a triplet rhythm
Syncopation	A way of making music more rhythmically interesting by playing 'off the beat'
	Instruments

Instruments

Older Blues songs are generally a voice accompanied by banjo or acoustic guitar. As the style developed, arrangements became more complex and used instruments such as Drums, Double Bass, Piano, and jazzier instruments such as saxophone and trumpet.

Blues lyrics

The lyrics of Blues songs were generally sad, reflecting the lives of the slaves. The lyrics are structured in three lines, with lines 1 and 2 the same with line 3 different but often rhyming.

Listening	Identification and application of musical features of the blues
	Understanding the context of lyrical context of Blues Music
Performing	Performing and improvising different elements of Blues Music
	Working in pairs and/or groups
Composing	Compose a short improvised melody based upon the Blues Scale
Contextual knowledge	Develop Historical knowledge of the development of Blues Music and the Slave Trade. Research famous Blues musicians

8.3 KS3 Core PE Knowledge Organiser: Exercise Intensity

220 200

160 140 120 100

180

	Key Terms	*
Key Term	Definition	Mexim
Heart Rate (HR)	The number of heart beats per minute , measured in beats per minute .	Anaerobic Zone B.n.
Resting Heart Rate (RHR)	The number of heart beats per minute (at rest) , measured in beats per minute.	3 4 8
Maximum Heart Rate (MHR)	The maximum number of beats your heart can beat per minute. This is measured in beats per minute. This is calculated as 220 - age.	10
Recovery Heart Rate	The fitter you are, the faster the recovery of your heart rate. Your heart rate drops most sharply in the first minute after you stop exercising; it should then fall about 20 beats a minute—a drop of less than 12 beats a minute is considered abnormal.	Calculate - Requires computation fitness data

Worked example: Calculate the aerobic target zone for a 20 year old	athlete.	Fist you need to calculate the athletes maximum heart rate which would be
Training Thresholds	Definition	60-80% of your maximum heart rate.
	Key Term	Aerobic Training

in relation to

80

MHR (1). 60% of 200 is 120, 80% is 160. (1). So the athletes aerobic target

zone would be between 120 and 160bpm. If they were in this range they

would be working aerobically (1) working on their endurance (1).

220-20 (his age) = 200bpm (1). The aerobic target zone is 60-80% of the

High Weight Vs Low Repetitions & Sets Your Turn: Try these questions Muscular Strength

Low Weight Vs High Repetitions & Sets

Muscular Endurance

Anaerobic Training

80-90% of your maximum heart rate.

1) Define the term heart rate. 2) How would you develop muscular strength? 3) How would you determine that an athlete had stopped exercising? What is this called?

Misconceptions		key vocabulary
 Heart rate zones need to be calculated using maximum HR (220-age) 		Aerobic, anaerobic, heart rate,
 Aerobic involves using oxygen and is used for longer duration events working on endurance. 	king on endurance.	resting, recovery, weight,
• Anaerobic is without oxygen and is used for shorter duration higher intensity using strength and power.	ity using strength and power.	repetitions, maximum, maxima
• Co-ordination can be more than just hand-eye, can be foot-eye or moving arm and legs at the same time.	arm and legs at the same time.	component, stimulus, voluntary
 Speed can also refer to moving a body part – e.g. moving the arm to play a shot in table tennis. 	a shot in table tennis.	joints, static

maximal, oluntary,

1) Define the term flexibility. 2) State 2 sports that would require power. 3) Explain the importance of agility and speed for a 100m sprinter.

Your Turn: Try these questions

point. The answer must contain some

linked reasoning

justification/exemplification of a

Explain - Requires a

38

	Components of Fitness	Worked Examples – For each component state an athlete that
Component	Definition	would use it and explain why.
Body Composition	A measure of the percentage of fat, muscle, bone, water and vital organs that make up your body weight.	Athletes require a suitable body composition for their sport. E.g.; a rugby player requires a larger proportion of muscle than a dancer as they need strength to make tackles.
Coordination	The ability to move two or more body parts together, accurately and smoothly.	Tennis players require excellent levels of coordination to be able make contact with the ball and racket at the same time to perform accurate shots.
Power	The ability to combine strength with speed to perform a strong muscular contraction very quickly.	Long jumpers require great amounts of power to be able to push off the ground to propel themselves into the air in order to travel a long distance in their jump.
Reaction Time	The amount of time it takes you to respond to a stimulus.	Sprinters requires a quick reaction time to be able to get out of their starting blocks as quickly as possible at the beginning of a race to give them a better chance of winning.
Speed	The rate at which your body, or part of your body, is able to perform a movement.	Rugby players, particularly wingers, require high levels of speed to be able to travel down the wing at a fast pace to be able to score a try.
Balance	Your ability to keep your body steady, both when in a static position and when moving.	Dancers require large amounts of balance to ensure that they maintain control when in a static position, such as standing on one leg. This will give them a better aesthetic score.
Agility	A measure of how quickly you can change the position of your body, while keeping your entire body under control.	Footballers require high levels of agility to be able to change direction at speed when running with the ball to get around their opponents to attack with a bigger threat.
Flexibility	The ability of your joints to move through their full range of movement.	Gymnasts require large amounts of flexibility to be able to move their joints through their full range of motio n when performing moves and routines to a higher standard .
Muscular Endurance	A measure of the length of time your voluntary muscles can contract without getting tired. This can be repeated muscle contractions, or one contraction held for a long period of time.	Boxers require good muscular endurance to be able to repeatedly contract their muscles when throwing punches many times without getting tired to try enforce a knockout
Strength	The amount of force a muscle can generate when it contracts to overcome resistance.	Powerlifters require excellent muscular strength to be able to generate large amounts of force when lifting heavy weights .
Cardiovascular Fitness	A measure of how efficiently your body can deliver oxygen and nutrients, such as glucose, to your working muscles during exercise, and also carry away waste products.	Marathon runners require excellent cardiovascular fitness to be able to use the whole body to run for the entire duration of the race without getting tired.

Religious Studies: War and Peace

What are the causes of conflict?

Humans can always find something to argue over, arguments can develop into violence and, when you have different countries involved, into armed conflicts and war. Jealousy, fear, greed, a struggle for land are all causes of conflict – religion can be a cause but it is <u>not</u> the cause of all wars.

Just War and Christianity

In the early years of Christianity most
Christians were probably pacifists, but as time passed and rulers became Christians there were times when fighting was seen as necessary, the lesser of two evils. Thomas Aquinas drew up a series of conditions for Just War, for example war should only be fought to promote the good and avoid evil and the methods used must be proportional to success. Many Christians still consider World War 2 to be an example of a Just War.

The Islamic Concept of Jihad



This is much misunderstood! Muslims talk about
Greater Jihad and Lesser Jihad. The more important
Greater Jihad does not involve weapons, it is a
conflict every Muslim is involved in as they fight the
devil within. If they are tempted to eat during
Ramadan –fighting that temptation is Jihad. Lesser
Jihad may involve weapons in a fight to defend Islam
/ Muslims but there are strict conditions which need
to be met, for example it must be a last resort.
Despite the claims of some, a terrorist attack does
not meet the conditions for Jihad.

Pacifism

Some say violence is always wrong, no matter what the circumstances. Many Christians suggest Jesus was probably a pacifist. In the twentieth century Mohandas Gandhi, a Hindu, was one of the best known pacifists who showed that it is possible to change the world without resorting to violence. He campaigned against racism in South Africa and helped achieve Indian independence using non-violent protests methods and following the principle of ahimsa. Martin Luther King followed his example.

Terrorism

The twenty-first century has made us all aware of the evils of terrorism. September 11th 2001 was when planes were flown into the World Trade Centre causing the Twin Towers to collapse. In Europe London was targeted in 2007, and again in 2017. Paris suffered in 2015 and Brussels in 2016. Innocent people lost lives, and those of all faiths and of none have spoken out against terrorism.

Sikhism

Sikhism is a religion that stresses the idea of equality, they believe that God the creator has made one humanity, no one is born better than anyone else and all religious traditions are valid. Sikhs have sometimes suffered violence from others, they value pacifism but most see war as sometimes justified.

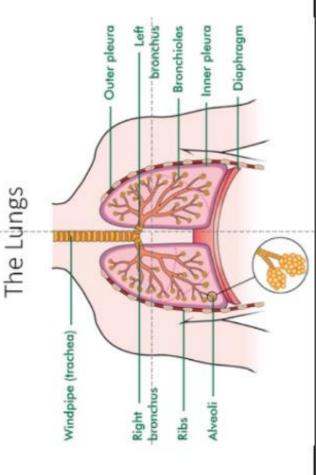
Key Word	Definition
War	Fighting between groups to resolve issues.
Civil War	War within a country.
Peace	An absence of conflict.
Pacifism	Refusing to take part in war / violence.
Just War	A war that is seen as justified, necessary and fair.
Holy War	Fighting for a religious cause.
Jihad	Striving against evil for the sake of Allah.
Greater Jihad	A personal, internal struggle against the devil.
Lesser Jihad	An outward struggle to defend Islam / Muslims.
Thomas Aquinas	Christian thinker, drew up Just War principles.
Terrorism	Unlawful use of violence to achieve a political goal.
Ahimsa	Non-violence / respect for life.

Key Quotes

In the Bible Jesus said 'Put away your sword' when he was arrested and one of his disciples tried to defend him. Jesus also said 'Blessed are the Peacemakers, they are children of God' but when he visited the Temple in Jerusalem he was angry at the money changers reacting with some violence. In the Qur'an it says "Fight in the way of Allah against those who fight against you, but begin not hostilities. Lo! Allah loveth not aggressors."

Gandhi is said to have stated 'An eye for an eye makes the whole world blind.'

Year 8 Organ Systems Knowledge Organiser



DOUBLE CIRCULATORY SYSTEM.

Blood passes through
the heart twice.
The right side pumps
deoxygenated blood to of h
the lungs.
The left side pumps
oxygenated blood to

Left side of

The

heart

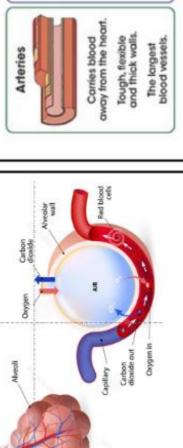
genated blood to of heart the lungs.

eft side pumps anated blood to the body

The Body

CIRCULATORY SYSTEM

The circulatory system includes the heart, blood vessels and blood. The heart has a left & right atrium and a left & right ventricle



Has a good blood supply

Lhin

Alveoli is:

Very thin walls

This helps the gases move

quickly by diffusion.

Exchanges oxygen and waste with the blood.

Thin walls due to less blood pressure

Capillaries

Veins

The smallest blood vessels.

Carries blood back to the heart. Walls are only one-cell thick.

Medium-sized blood vessels.

Respiration happens in every cell in the body.

Aerobic respiration:

Oxygen + Glucose → Carbon dioxide + Water (energy released) Anaerobic respiration happens when oxygen isn't available;

Glucose → Lactic acid (energy released)

sony wishing and a systems organism Cells Tissues Organs organism

This is the movement of oxygen from the alveoli into the blood

Gaseous exchange.

and carbon dioxide out of the blood and into the alveoli.

Digestion is the process by which food is broken down to be absorbed into the bloodstream and distributed around the body.

Mouth - physical breakdown of food (mechanical digestion)

Oesophagus - takes food to the stomach

Microorganism

Diffusion

Model

Oesophagus

Mouth

Glucose Aerobic

Stomach

Rectum anus

Bacteria

Absorbed

Stomach

Digestion

Tier 2

Saliva

Stomach - digestion of protein (chemical digestion)

The stomach also contain acid to help kill bacteria.

Liver - produces bile

Pancreas - produces enzymes and insulin

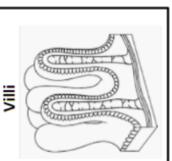
Small intestine - digestion of carbohydrates, fats and

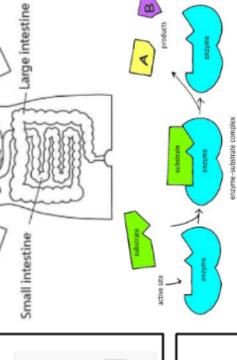
Pancreas

Liver

Large intestine - absorption of water absorption of nutrients via villi proteins (chemical digestion)

large surface area to aid absorption Villi are finger-like projections with of nutrients into the blood





Small intestines

ngestion

Liver

B

Oesophagus

Faeces

Large intestine

Egestion

Enzyme

Catalyst Plasma

Salivary glands

Tier 3

Red Blood Cells

Ventilation

Breathing

Combustion Respiration

Blood Vessels

An enzyme breaks down large food molecules into smaller Lipases break down lipids and fats. Proteases break down proteins. Carbohydrases break down

Enzymes

molecules

carbohydrates.

Carbohydrates

Anaerobic Capillaries Lactic acid

ij



Glucose; Benedicts, blue to orange

Starch; iodine turns black

Food tests

Protein; Biurets, blue to purple

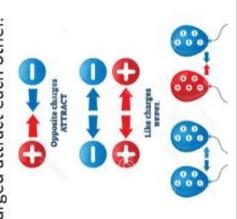
Fats; ethanol, clear to cloudy

43

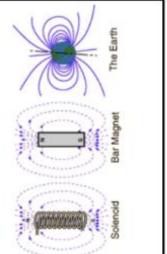
Static charge

Insulators (not conductors) can become charged when rubbed.

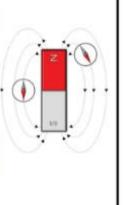
They become either positively or negatively charged. Two objects that have the same Two objects that are oppositely charged attract each other. charge repel each other.



nickel and cobalt) feel a force. magnetic field which is a materials (like iron, steel, region where magnetic A magnet produces a



A plotting compass can help us map the magnetic field.



and south (S) magnetic pole. attract (N v S), but like poles Opposite poles of magnets Magnetic Force repel (N v N or S v S). attract

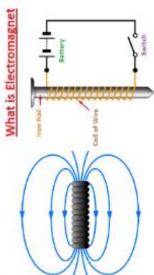
Magnetic

Negative

Neutral

Parallel

Pole



Tier 3 Vocabulary

Ammeter

Cell

Electromagnet

Electron

Field

Conductor

Diode

A solenoid is a loop of wire with a current passing through it which

Insulator

More loops of wire or a larger current Electromagnets (solenoids with soft iron cores) and produce magnetic make a stronger magnetic field. fields.

Thermistor

Solenoid

Resistor

Proton

Voltmeter

Potential Difference

Neutron

LDR

Bar magnets

Tier 2 Vocabulary

Bar magnets have a north (N)

Compass

Current

Fuse

LED

Charged

Circuit

Battery

Attract

Positive

Series

Repel

creates a magnetic field. electron 6 protons

Negative (-)

Electron

Positive (+)

Nucleus

Neutral

Neutron

Positive (+)

Proton

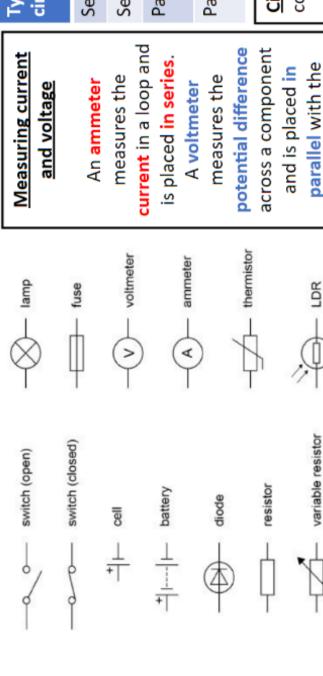
Charge

Particle

+ proton neutron

Year 7 Knowledge Organiser Physics –

Electricity



parallel with the component.

Resistance and Ohm's Law

which it opposes the flow of component is the degree to measured in ohms, Ω) of a The resistance (symbol R, current.

to charges around the circuit (or across

a component).

It measures the size of the push given

proportional to the potential The current passing through current around the circuit difference pushing the a circuit is directly

ampères, A) is the rate of flow of charge

Current (symbol I, measured in

Current

(symbol Q, measured in coulombs, C)

|=Q/

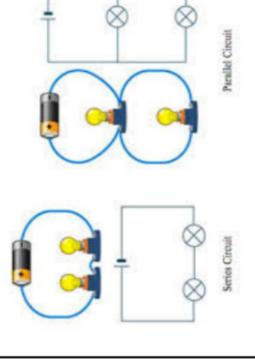
I = V/R

For current to flow the circuit must be

complete (no gaps).

Type of circuit	Property	The same /shared
Series	Current	The same
Series	Pot. Diff.	Shared
Parallel	Current	Shared
Parallel	Pot. Diff.	The same

Circuit diagrams help us to simply display complex circuits.



A series circuit has one loop.

As you add more bulbs into the same loop they will become dimmer.

A parallel circuit has more than one loop.

Two bulbs in different loops will stay the same brightness.

LED

Potential Difference (P.D.) or voltage

(symbol V, measured in volts, V) is

provided by a cell or battery.

Y8 Spring Term Knowledge Organiser Spanish

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Key st	Key spellings	, Qué	What do you have for		En el mercado - Role play	At the market –
Learn these spellings, they will be really	s, they will be really	desayunas/comes/cenas?	_			Role play
useful for this unit and you will be tested	d you will be tested	Desayuno	For breakfast I have	¿Qué quiere?	e?	It was
on them.		Como/Almuerzo	For lunch I have		nror.	I want to buy
 desayuno 	for breakfast I	Ceno	For dinner I have	Saleto coio	do tomotoo	100g tomotogo
	eat	cereales	cereal	clen grannos	ciell grannos de tonnates	roug tolliatoes
2. ceno	for dinner I eat	tostadas	toast	doscientos	doscientos gramos de uvas	Z00g grapes
3. voy a tomar	I'm going to have	café	coffee	trescientos	trescientos gramos de pan	300g bread
4. voy a beber	I'm going to drink	yodur	yoghurt	medio kilo de pimientos	e pimientos	0.5kg red peppers
voy a comprar	I'm going to buy	té	tea	rojos		
		zumo (de naranja)	(orange) juice	un kilo de cebollas	epollas	1kg onlons
Key vocabulary	Key vocabulary and questions	un bocadillo	a sandwich	dos kilos de manzanas	manzanas	2kg apples
		pollo con ensalada	chicken with salad	nua potella o	una botella de limonada	a bottle of lemonade
¿Qué te gusta	What do you like	sopa	dnos	un paquete de tortillas	de tortillas	a packet of tortilla
comer y beber?	to eat and drink?	patatas fritas	chips			wraps
Me gusta/No me	l like/don't like	helado de fresa	strawberry ice cream	una lechuga		a lettuce
gusta		Can voll describe these Spanish foods and name	spanish foods and name	Cuánto es?	ن	How much is it?
el agua	water	some others? churros paella tortilla española	aella, tortilla española.		Son diez euros con veinte	It's 10€20
el arroz	rice	Cola Cao.		Can you re	member all your	Can you remember all your numbers, including
la came	meat	En el restaurante –	At the restaurant –	now to torn	n numbers past	how to torm numbers past 100? Practise them at
la fruta	fruit	Role play	Role play	i o i o		
la leche	milk	¿Qué va a tomar	What are you going to	Key gr	Key grammar – The near future	near future
200	Y		have?	Use the near future	e to talk about who	Use the near future to talk about what is going to happen (I
el marisco	seafood	de primer plato to	to start	am going to eat, he	is going to buy,	am going to eat, he is going to buy, we are going to dance)
el pescado	fish	de segundo plato	for a main course			
el dueso	cheese		10000	This tense is forme	ed by 3 parts, mak	This tense is formed by 3 parts, make sure you have all of
Me gustan/No me	l like/don't like	ansod an	linessen ioi	them to use it correctly.	ectly.	
gustan	(plural)	Voy a tomar	I'm going to have	1 The presen	The present tense of IR (the verh to go)	verh to go)
las verduras	vegetables	¿y para beber?	and to drink?	2. 'a'		(26.03.0)
los caramelos	sweets	Voy a beber	I'm going to drink		7	ar/er-ir)
las hamburguesas	hamburgers	Algo más? A	Anything else?	.2	'a' 3. An	
los huevos	sbba	No, nada más	No, nothing else	tense of IR	verb	
porque es/son	because it is/they	favor	The bill, please	Voy	comer	I am going to eat
(0)0)0001010101	are		in bindray	Vas	bailar	You are going to dance
delicioso/a(s)	delicions	מומ	li liuligi y	Va	llevar	(S)he is going to wear
asqueroso/a(s)	disgusting	Tengo sed	I'm thirsty	Vamos	cantar	We are going to sing
Can you use a dictionary to look up more of your favourite foods?	onary to look up rite foods?	Look back at the example menu we saw in class, what would you order?	menu we saw in der?	Vais	comprar	You (pl.) are going to buy
				Van	beber	They are going to drink

Y8 S Spanish

Key spellings	Learn these spellings, they will be really useful	for this unit and you will be tested on them.	l wear	Would you like to?	I would like to	I can't	I have to
Key s	Learn these spellings	for this unit and you w	1. Ilevo	2. ¿Te gustaría?	3. Me gustaría	4. no puedo	5. tenao aue

Key vocabulary and questions

¿Quieres salir? ¿Te gustaría ir?	Do you want to go out? Would you like to go?
al cine	to the cinema
al polideportivo	to the sports centre
al parque	to the park
al museo	to the museum
al centro comercial	to the shopping centre
a la bolera	to the bowling alley
a la playa	to the beach
a la pista de hielo	to the ice rink
a la cafetería	to the café
a mi casa	to my house
How do you know v	How do you know whether to use al or a la
with the places above?	ve?

¿Cómo	How will you answer?
responderás?	
De acuerdo/Vale	All right/Okay
Muy bien	Very good
Genial	Great!
Sí, me gustaría	Yes, I would really like
mucho	to
¡Ni hablar!	No way!
¡Ni en sueños!	In your dreams!
No tengo ganas	I don't want to
¡Qué aburrido!	How boring
Lo siento, no puedo	Sorry, I can't
Don't forget to use or	Don't forget to use one of the excuses if you

say you can't go.

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,	Excuses	I have to	wash my hair	look after my brother		do homework	tidy my room		walk the dog	go out with my parents	I don't want to	I don't have time	I haven't any money
	Excusas	Tengo que	lavarme el pelo	cuidar a mi	hermano	hacer los deberes	ordenar mi	dormitorio	pasear al perro	salir con mis padres	No quiero	No tengo tiempo	No tengo dinero

¿A qué hora?	At what time?
A las seis	At 6:00
A las ocho y diez	At 8:10
A las cinco y cuarto	At 5:15
A las tres y media	At 3:30
A las nueve menos	At 8:45
cuarto	
A las once menos veinte	At 10:40
A mediodía	At midday
A la una	At 1:00
You'll also need to say on what day. Can	n what day. Can
you remember all the days of the week?	ys of the week?

How do you get	ready?	I bathe	I shower	I wash my face	I brush my teeth	I get dressed	I put my makeup on	I brush my hair	I straighten my hair	I put gel in my hair	o talk about your Iuego, después,
¿Cómo te	preparas?	Me baño	Me ducho	Me lavo la cara	Me lavo los dientes	Me visto	Me maquillo	Me peino	Me aliso el pelo	Me pongo gomina	Use sequencers to talk about your routine: <i>primero, luego, después,</i> finalmente

Unit 4: Las salidas - Outings

delante de la cafetería in front of the café delante de la cafetería in front of the café al lado del museo in front of the bowling alley detrás del polideportivo at your house en tu casa Can you spot the rule for using del or de la here? Can you spot the rule for using del or de la here? Can you spot the rule for using del or de la here? Can you spot the rule for using del or de la here? Can you spot the rule for using del or de la here? Normalmente llevo I'm going to wear Uoy a llevar I'm going to wear una camiseta naranja a white shirt una sudadera verde a green hoodie una sorta gris some blue jeans some blue jeans unos vaqueros azules some blue jeans unos vaqueros azules some multicoloured shoe colores Unos zapatos de muchos some trainers Remember that the adjective comes after the noun in Spanish and needs to have the correct ending (masc/fem/plural)	ı		
levar? levar? levar? levar? o o ee e e ee ee deporte deporte deporte de adjective c ds to have the		¿Dónde quedamos?	Where shall we meet?
ra in ortivo be at rule for using levar? levar? o o egros es es les es les es les les es les les to have the adjective c ds to have the les les les les les les les les les le		delante de la cafetería	in front of the café
ra in at rule for using levar? levar? levar? levar? levar? les e e e e deporte dep		al lado del museo	next to the museum
levar? levar? o o egros egros ess uchos uchos deporte deporte de adjective c ds to have the		enfrente de la bolera	in front of the bowling alley
levar? o oightaile egros es es uchos uchos deporte deporte de adjective c ds to have the		detrás del polideportivo	behind the sports centre
levar? O Dia egros es es uchos deporte deporte de adjective c ds to have the		en tu casa	at your house
egros es es luchos uchos deporte de adjective c ds to have the		Can you spot the rule for us	ing <i>del</i> or de la here?
o piga egros es uchos uchos deporte de adjective c ds to have the	_		
egros es suchos uchos deporte de adjective c ds to have the		¿Qué vas a llevar?	What are you going to
egros es es les les luchos deporte deporte de adjective c ds to have the	_		wear
egros es suchos uchos deporte de adjective c ds to have the		Normalmente llevo	Normally I wear
egros ess uchos deporte de adjective c ds to have the		Voy a llevar	I'm going to wear
e e e s es les les les les les les les l	_	una camisa blanca	a white shirt
egros es lles luchos deporte deporte de adjective c ds to have the	1	una camiseta naranja	an orange T-shirt
egros es lles luchos deporte deporte te adjective c ds to have the		un jersey amarillo	a yellow jumper
egros es ules uchos deporte de adjective c ds to have the		una sudadera verde	a green hoodie
egros es ules uuchos deporte te adjective c ds to have the		una falda rosa	a pink skirt
egros es iles iuchos deporte de adjective c ds to have the		un vestido morado	a purple dress
egros es lles luchos deporte re adjective c ds to have the		una gorra gris	a grey cap
les nuchos deporte ne adjective c		unos pantalones negros	some black trousers
uchos deporte ne adjective c ds to have the		unas botas marrones	some brown boots
deporte		unos vaqueros azules	some blue jeans
colores unas zapatillas de deporte Remember that the adjective comes after the noun in Spanish and needs to have the correct ending (masc/fem/plural)		unos zapatos de muchos	some multicoloured shoes
Spanish and needs to have the correct ending (masc/fem/plural)		colores	
Spanish and needs to have the correct ending (masc/fem/plural)		unas zapatillas de deporte	some trainers
Spanish and needs to have the correct ending (masc/fem/plural)		Remember that the adjective	e comes after the noun in
(masc/fem/plural)	1	Spanish and needs to have	the correct ending
		(masc/fem/plural)	

Reflexive verbs are often used to describe an action you do to yourself. They work in the same way as other verbs, but have and extra reflexive pronoun that must be added. Key grammar - Reflexive verbs

	המיס מות כאות וכווכאוים ביותר ווותסר בי מתמכת:
Don't forget to chan	Don't forget to change the ending of the verb accordingly.
Lavarse	To wash oneself
Me lavo	I wash myself
Te lavas	You wash yourself
Se lava	S(he) washes her/himself
Nos lavamos	We wash ourselves
Os lav <mark>áis</mark>	You (pl) wash yourselves
Se lavan	They wash themselves

Year 8 Knowledge Organiser 2022 Design and Technology Textiles

Protest Typography Specific Language and Terms

a statement or action expressing disapproval of or Protest

through stitching manually by hand using a needle a minimum of three layers of fabric together either Quilting is the term given to the process of joining and thread, or mechanically with a sewing machine. Quilting

objection to something.

Ornamental needlework in which pieces of fabric

Applique

Typography

Typography- is the art and technique of arranging type appealing when displayed. The arrangement involves line-spacing, and letter-spacing, and adjusting the to make written language legible, readable and selecting typefaces, point sizes, line lengths, same in between pairs of letters.

are sewn or stuck on to a larger piece to form a picture or pattern.

a short and striking or memorable phrase used in advertising.

Font

include variations in size, weight, slope, width, and so on. Each of these variations of the typeface is a A typeface is the design of lettering that can

Examples Protest Typography:

Sifuentes, In 2016, Banner Lending powerful project titled 'Protest she began a Aram Han







Stephanie Syjuco, 2017.

DT - Typography. Year 8 Design and Technology Textiles Knowledge Organiser 2022

Specific Language and Terms

S	
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m	

Black Lives Matter is an international movement originating among

African-American communities which campaigns against racism – and whose mission is 'to intervene in violence

inflicted on black communities by the state and vigilantes'.

Brexit March

In October 2019 approximately one million people joined the 'People's Vote' protest to campaign against the UK's decision to leave the European

Jujon.

Climate Youth Strike

This is an international movement founded by Greta Thunberg in August 2018. This movement sees students take time off from their school classes on Fridays to demand that political leaders take action to prevent climate change.

Activist

A person who campaigns alone or as part of a group to bring about political and social change.





Notes Page

Notes Page