



# Year 8 Knowledge Organiser

You will receive a Knowledge Organiser booklet on a termly basis, which includes revision for: English, Maths, Science, MFL, History and Geography

### **Knowledge Organiser instructions:**

You will be set three pieces of homework per week and you should use the information from each topic to make a poster or a mind map. You will need to bring your work in to school and will be quizzed on each topic in class.

At the back of the knowledge organiser there are some suggested extra tasks that could be completed on top of the homework you will be set.

### **Email address for any queries:**

For further support, scan the QR Code and it will take you to the school website:

English: Miss Pett	pettr035@sflt.org.uk
Maths: Mr Huston	hustj008@sflt.org.uk
Science: Mrs Gilbey	gilbl117@sflt.org.uk
History: Miss Gurung	gurua221@sflt.org.uk
Geography: Mr Butters	buttf095@sflt.org.uk
MFL: Miss Lara	larae006@sflt.org.uk



Preparing you for the Future

### **Homework schedule for the term:**

Week	Subject and section	Revision technique	
1 (B)	English, MFL and Maths Topic 1	Create a mind map for the information in Topic 1	
2 (A)	Science, History and Geography Topic 1	Create a mind map for the information in Topic 1	
3 (B)	English, MFL Maths Topic 2	Create a poster using the information in Topic 2	
4 (A)	Science, History and Geography Topic 2	Create a poster using the information in Topic 2	
5 (B)	English, MFL Maths Topic 3	Create a mind map for the information in Topic 3	
6 (A)	Science History and Geography	Create a mind map for the information in Topic 3	

### **Optional Extra Tasks**

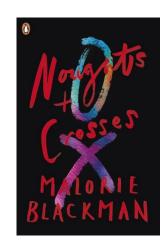
If you would like to spend more time working independently to develop excellence in your subjects. Here is a suggested timetable for you to follow. If you have forgotten your usernames and passwords for these apps, speak to your form tutor and they will be able to support you.

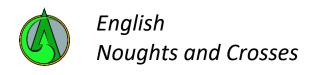
Monday	Spend 30 minutes on Spell Zone	Thursday	Complete 30 minutes DEAR Time using your library book
Tuesday	Complete 30 minutes on Sparx	Friday	Spend 30 minutes learning the key words from your subjects this week.
Wednesday	Spend 30 minutes completing revision using BBC Bitesize		

### **Topic 1: Context**

Malorie Blackman was born in 1962.

- She was born in Barbados and moved to England at a young age.
- She experienced racism throughout her life.
- Blackman's autobiography has been published by 'Murky Books', which is Stormzy's publishing company.
- Her first published book was *Not So Stupid!* (1990), a book of short stories. Since then she has written many books and scripts, and her popularity has steadily grown.
- Her scripts for television include several episodes of *Byker Grove, Whizziwig* and *Pig-Heart Boy,* and she has also written original dramas for CITV and BBC Education.
- She writes for all ages of children.
- She has been **awarded** numerous prizes for her work, including the Red House Children's Book Award and the Fantastic Fiction Award. She has been described by The Times as 'a national treasure'.
- She believes that the subject of slavery is still important and relevant in modern society.
- Blackman understood that racism is an **emotive** issue but believed that they should be discussed in a powerful way.
- She was influenced by myths and legends to create the names of Spey's family in the novel.
- The McGregor family names were based on Celtic tradition Callum means 'dove', which is symbolic of peace.
- Blackman wanted to present mental illness in society, through the character of Lynette.
- It was important for Blackman to include real life events in the novel to make it more believable and relatable.
- She also wanted to show how lack of **education** can lead to **violence** in the same way it does for Jude in the novel.
- By writing the novel, Blackman wanted to emphasise the issues that ethnic minorities could deal with on a regular basis, in real life: **inequalities** in education, health, the justice system and employment
- The Liberation Militia in the novel is based on the real life events of the IRA.





#### **Topic 2: Themes**

#### Discrimination

**Discrimination** against one race is the novel's most obvious theme; it affects everything else that happens. Many of the hardships that Callum faces are based on real events in our own society. For example, he is abused when he becomes one of the first white students allowed into an all-black scho



ol; he only learns about black historical figures in class; and he is constantly put down by Crosses. Noughts also do poorly paid jobs, if they can get a job at all, and have fewer life chances and **opportunities**.

#### **Extremism**

The "Liberation Militia" is a secretive group of Noughts who fight for equality by planting bombs and murdering Crosses. Their **terror** tactics are reminiscent of the IRA in the latter half of the 20th century. As Callum becomes more disillusioned by the way he and his family are treated, he begins to sympathise with them. The novel highlights how ordinary people can become **radicalised**.



#### **Justice**

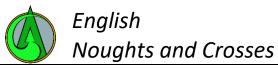
Callum and Sephy both want **justice** for Noughts; they want a world where everyone is **equal**, and they can be together. But when members of Callum's own family get caught up in the process of the law, it is clear that the legal system is biased against them. The Death Penalty still exists in the world of characters, therefore the consequences of Callum and Sephy's **relationship** could be fatal.



### <u>Friendship</u>

At the heart of Noughts and Crosses is the **friendship** between Callum and Sephy who remain friends despite the rules of society disobeying their close bond. They are very careful with their friendship and regularly meet in private to protect their friendship. Ultimately, their friendship blossoms into a **forbidden** love, reminiscent of Romeo and Juliet due to the **tragedy** involved. Like Shakespeare's lovers, Callum and Sephy are torn apart by the warring sides to which each other belongs.





### **Topic 3: Genre and Plot Summary**

#### **Dystopia:**

A **Dystopian** text is about an imagined society where there is great **suffering** and **injustice** for a group of people. 'Noughts and Crosses' describes an alternative history where African people gained in technological and organisation advancements over European people, with Africans keeping Europeans as slaves. In the novel, slavery is abolished, however, **segregation** is still apparent in society.





### Plot – the beginning of the novel:

The novel *Noughts and Crosses* is based in a 21st-century parallel universe. Their world, technologically at least, is similar to the one we live in today: the same jobs, same type of government etc. But there is one key difference: equality between races is lacking and there aren't many laws or constitutions to protect from **discrimination**. There are two races in the book: Crosses (darker-skinned people) the **superior** race with the individuals owning lots of money, have good jobs and better schools etc. The second race, the Noughts (lighter-skinned people) are at the poorer end of society, usually doing manual labour or being servants to Crosses, with poor schools – if any at all.

Sephy (full name Persephone) Hadley is a Cross and one of the key **protagonists** in the novel. She is the daughter of a wealthy senior politician, Kamal Hadley. Callum McGregor is a Nought. They used to play together when Jasmine, Sephy's mother, employed Meggie McGregor, Callum's mother, as a Nanny. However, Jasmine fired Meggie for being unable to provide an **alibi** for her when Kamal confronts Jasmine about his suspicions of her infidelity: that is only strongly suggested at the beginning but is made explicit later. Since then, Sephy and Callum's friendship has been secret, as such interracial friendships are frowned upon by society.

Callum is one of the first few Noughts to start at Heathcroft, a high school for Crosses that now accepts the best-performing Noughts. Sephy is overjoyed to find that Callum is in her class after helping him pass the entrance examination. However, most of her classmates do not accept her association with a Nought. The two develop a more intimate connection, and Sephy does not care about the **opposition** and even sits on a table with Noughts.

		English	Year 8
		Support and application	Term 5
1. 2. 3.	Volence Discrimination Friendship	Context of Noughts and Crosses: <a href="https://www.malorieblackman.co.uk/noughts-and-crosses-qa/">https://www.malorieblackman.co.uk/noughts-and-crosses-qa/</a>	<ol> <li>Research the Apartheid Law and explain its relevance to the novel 'Noughts and Crosses'.</li> </ol>
4. 5. 6. 7.	Courage Betrayal Loyalty Tragedy	Why Noughts and Crosses is so important to the world today: <a href="https://www.thetimes.co.uk/article/in-praise-of-malorie-blackman-why-noughts-crosses-is-so-important-gpngrf7ll">https://www.thetimes.co.uk/article/in-praise-of-malorie-blackman-why-noughts-crosses-is-so-important-gpngrf7ll</a>	<ol><li>Create a mind-map of words and phrases to describe Sephy and Callum. Use a thesaurus to help you.</li></ol>
8. 9. 10.	Forbidden Noughts Crosses	Trailer for the BBC adaptation of Noughts and Crosses: <a href="https://www.youtube.com/watch?v=xTEJ4KJh4Ug">https://www.youtube.com/watch?v=xTEJ4KJh4Ug</a>	<ol><li>Create a series of flash-cards that summarise the plot of 'Noughts and Crosses'.</li></ol>
11. 12. 13.	Slavery Segregation Separation	Interview with Malorie Blackman: <a href="https://www.youtube.com/watch?v=A-8iSdsDXLI">https://www.youtube.com/watch?v=A-8iSdsDXLI</a>	<ol> <li>Watch the BBC TV series 'Noughts and Crosses' and compare the events to the novel.</li> </ol>
14. 15. 16.	Racism Family Society	Quizlet: <a href="https://quizlet.com/subject/noughts-and-crosses/">https://quizlet.com/subject/noughts-and-crosses/</a>	<ol><li>Create a storyboard of the novel, plotting the key events.</li></ol>
17. 18. 19. 20.	Modern Blackman Liberation Militia	Further books by Malorie Blackman:  • Knife Edge  • Checkmate  • Double Cross	6. Write a diary entry from the point of view of Jude. What would you be thinking at different points of the novel?
21. 22. 23. 24.	Dystopia Fiction Alterative Perspectives	<ul> <li>Bouble cross</li> <li>Boys Don't Cry</li> <li>Chasing the Stars</li> <li>Pig-Heart Boy</li> <li>Thief</li> </ul>	7. Write a letter to Malorie Blackman explaining how you felt about the novel.
25. 26. 27.	Interracial Politician Wealthy		
28. 29. 30.	Poverty Dangerous Underclass		



### **Topic 1: Calculating with Fractions**

The term equivalent means of equal value. You can find equivalent fractions by multiplying the numerator and the denominator by the same value.

A fraction is in its simplest form if you cannot divide both numerator and denominator by any whole number, other than 1. If you are asked to simplify a fraction it means finding its simplest form.

When adding and subtracting fractions you need to make sure the denominators are the same.

For example:

$$\frac{3}{7} + \frac{2}{7} = \frac{5}{7}$$
 and  $\frac{3}{7} - \frac{2}{7} = \frac{1}{7}$ 

When the denominators are not the same, you first have to find the lowest common denominator.

For example, if the denominators were 2 and 3, the lowest common denominator would be 6. Find equivalent fractions with a common denominator, and then add or subtract the numerators.

A mixed number is a whole number and a fraction, e.g.  $3\frac{1}{4}$ . This can be converted to an improper fraction. An improper fraction is where the numerator is bigger than the denominator. To convert  $3\frac{1}{4}$  into a improper fraction, the mixed number has  $\frac{1}{4}$  in it so the improper fraction will have 4 as the denominator.

Three whole ones = 3 
$$\times$$
 4 = 12, so 3  $\frac{1}{4}$  = 12 + 1 quarter = 13 quarters, written as  $\frac{13}{4}$ .

To convert an improper fraction to a mixed number: if you have 5 halves,  $\frac{5}{2}$ , work out  $\frac{5}{2}$  = 2 remainder 1, or  $\frac{1}{2}$ . When you add mixed numbers, add the whole numbers and the fraction parts separately. Then combine the two parts

after.  $3\frac{1}{2} + 1\frac{1}{4} = 3 + 1 = 4$ , and  $\frac{1}{2} + \frac{1}{4} = \frac{2}{4} + \frac{1}{4} = \frac{3}{4}$ . Combining your two answers then gives  $4\frac{3}{4}$ .

When you subtract mixed numbers, you must first convert both fractions to improper fractions.

$$3\frac{1}{2} - 1\frac{1}{4} = \frac{7}{2} - \frac{5}{4} = \frac{14}{4} - \frac{5}{4} = \frac{9}{4} = 2\frac{1}{4}$$

To multiply fractions you multiply the numerator and multiply the denominators, and simplify if necessary:

$$\frac{3}{4} \times \frac{5}{6} = \frac{15}{24} = \frac{5}{8}$$

To divide fractions you keep the first fraction the same, change the  $\div$  to an x and flip the second fraction. (Keep, Change, Flip) Simplify if necessary:

$$\frac{3}{4} \div \frac{5}{6} = \frac{3}{4} \times \frac{6}{5} = \frac{18}{20} = \frac{9}{10}$$

$$\frac{1}{2} + \frac{1}{3} = ?$$

$$\frac{1}{2} \times 3 = \frac{3}{6} \qquad \frac{1}{3} \times 2 = \frac{2}{6}$$

$$\frac{3}{6} + \frac{2}{6} = \frac{5}{6}$$



### **Topic 2: Straight Line Graphs**

### Straight line graphs

In straight line graphs, there is a linear relationship between x and y values. The line must be drawn with a ruler and pass through all of the coordinates. To find the coordinates you may need to use the equation of a line to find the y values. The gradient tells us how steep the line is and the y-intercept tells us where the line passes through the y-axis.

### Direct proportion on graphs

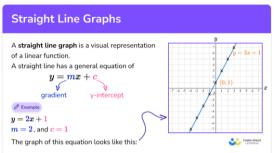
When two quantities are in direct proportion, as one increases the other one does too. We can display this relationship on a graph. Two quantities that are in direct proportion will always produce a straight line graph that passes through the origin.

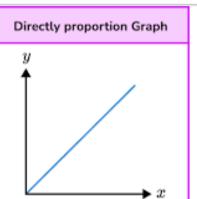
### **Gradients**

The gradient is the steepness of a line. A positive gradient will have an uphill trend and a negative gradient will have a downhill trend. A horizontal line will have a gradient of 0. There are many methods to find the gradient of a line, one is rise over run  $\binom{Rise}{Run}$ . To use this method we need to identify two coordinates situated on the line. Next, we draw two lines to make a right-angled triangle. Then measure the units of the rise and run.

### Equation on a straight line

The equation of a straight line is y = mx + c. The 'm' represents the gradient, this is the steepness of the line. The 'c' represents the y=intercept which is where the line passes through the x-axis.







### **Topic 3: Expressions and Equations**

### Algebraic Powers

Powers are values that show how many times to multiply a base number by itself. For example,  $4^3$  is telling you to multiply four by itself three times. The number being raised by a power is known as the base, while the superscript number above it is the power. We use powers in algebra, the letter has a value that we do not know, otherwise known as a variable, we can use powers to show when a variable is multiplied by itself multiple times. For example  $\mathbf{a} \times \mathbf{a} \times \mathbf{a}$  can be written as  $\mathbf{a}^3$ .

#### Expressions and Brackets

An expression is made up of terms which can include letters and numbers. It is a statement that has a minimum of two numbers, or variables, or both and an operator connecting them. To expand a bracket means multiplying each term in a bracket with the term outside. In the example on the right, We need to multiply the two terms inside the bracket by 3.

Expanding brackets

$$3(2x+1) = 6x + 3$$

Factorising

### Factorising Expressions

Factorising an expression is the opposite of expanding brackets. We need to find the highest common factor (HCF) of each term and this will be our term outside of the brackets. Then we need to fill in each term in the brackets by multiplying out.

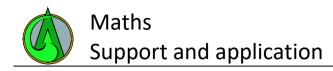
$$3x+6 = 3(x+2)$$

### One-step and Two-step equations

A one-step equation is an algebraic equation you can solve in one step and a two-step equation can be solved in two. Once you've solved it, you've found the value of the variable that makes the equation true. To solve these equations you need to use the inverse operation on both sides of the equation. The inverse operation means the opposite, for example: the inverse of + is -.

Example: 4a + 10 = 26

- For the first step, we would subtract 10 from both sides to make 4a = 16
- In the second step we need to divide by 4 because 4a means  $4 \times a'$  or four lots of a. When we divide by 4 we get a = 4.



Year 8 Term 5

Vocabulary Wider Research	Apply
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Fraction Simplify Numerator Denominator Improper fraction Equivalent Mixed number Graph Origin Proportion Quantity Relationship x-axis y-axis Equation Linear Inverse Power Expression Factorise Factor Operation

### Topic 1

- https://corbettmaths.com/wpcontent/uploads/2018/12/Multiplying-Fractions-pdf.pdf
- https://corbettmaths.com/wpcontent/uploads/2018/11/Dividing-Fractionspdf.pdf
- <a href="https://corbettmaths.com/2019/09/25/adding-fractions-textbook-exercise/">https://corbettmaths.com/2019/09/25/adding-fractions-textbook-exercise/</a>

### Topic 2

- https://corbettmaths.com/wpcontent/uploads/2018/12/Gradientpdf.pdf
- https://corbettmaths.com/wpcontent/uploads/2020/07/Equation-ofa-Line.pdf

### Topic 3

- <a href="https://corbettmaths.com/2013/03/13/laws-of-indices-algebra/">https://corbettmaths.com/2013/03/13/laws-of-indices-algebra/</a>
- https://corbettmaths.com/2013/12/23 /expanding-brackets-video-13/
- https://corbettmaths.com/2013/02/06/ /factorisation/
- <a href="https://corbettmaths.com/2012/08/24">https://corbettmaths.com/2012/08/24</a> /solving-equations/

### Topic 1

- <a href="https://corbettmaths.com/wp-content/uploads/2024/01/Adding-ractions.pdf">https://corbettmaths.com/wp-content/uploads/2024/01/Adding-ractions.pdf</a>
- <a href="https://corbettmaths.com/wp-content/uploads/2023/02/Multiplying-and-Dividing-Fractions.pdf">https://corbettmaths.com/wp-content/uploads/2023/02/Multiplying-and-Dividing-Fractions.pdf</a>
- <a href="https://corbettmaths.com/wp-content/uploads/2023/02/Multiplying-and-Dividing-Fractions.pdf">https://corbettmaths.com/wp-content/uploads/2023/02/Multiplying-and-Dividing-Fractions.pdf</a>

### Topic 2

- <a href="https://corbettmaths.com/wp-content/uploads/2013/02/gradient-pdf.pdf">https://corbettmaths.com/wp-content/uploads/2013/02/gradient-pdf.pdf</a>#
- <a href="https://corbettmaths.com/wp-content/uploads/2013/02/equation-of-a-line-pdf.pdf">https://corbettmaths.com/wp-content/uploads/2013/02/equation-of-a-line-pdf.pdf</a>

### Topic 3

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- https://corbettmaths.com/wpcontent/uploads/2013/02/expanding-brackets-pdf1.pdf
- https://corbettmaths.com/wpcontent/uploads/2020/05/Factorisation.pdf
- https://corbettmaths.com/wpcontent/uploads/2020/10/Equations-pdf.pdf



### **Topic 1: Respiration**

- **Respiration** is a chemical reaction that releases energy from food that you have eaten.
- Respiration occurs in the mitochondria of plant and animal cells There are two types of respiration:
- Aerobic respiration and anaerobic respiration.
- Aerobic respiration can be shown using the equation:

Glucose + oxygen → Carbon dioxide + water (+ energy)

- The energy produced is not a substance.

### Energy from respiration is used to:

- Contract our muscles for movement
- Keep body temperature constant and at a suitable level
- Make cellulose in plants by joining glucose molecules together.
- Grow protein is needed for growth and repair of tissues and is made using smaller molecules called amino acids.
   Joining amino acids together uses the energy from respiration.

During aerobic respiration, food digested in the intestines is converted to **glucose** and absorbed into the bloodstream to all the cells. Oxygen for the reaction is carried from the lungs during breathing to all cells in the body.

The waste products from respiration (carbon dioxide and water) are removed from the cells by the blood and breathed out through the lungs.

### Anaerobic respiration

- This is a type of respiration that occurs without oxygen. It occurs in the cytoplasm.
- Anaerobic respiration is used when the body exercises in short, energetic burst and the energy needed is greater than the oxygen that can be taken for respiration.



Anaerobic respiration can be shown by the equation:

Glucose ---- lactic acid (+ energy)

- Anaerobic respiration releases less energy than aerobic respiration
- Lactic acid from anaerobic respiration builds up in the muscles and causes aching in the muscles during or after exercise
- To remove the lactic acid, you need to use oxygen you breathe in. The oxygen is known as an **oxygen debt**

### How animals store energy

- As glycogen in muscles and the liver
- As fat reserves

## **Topic 2: Photosynthesis** Factors required for photosynthesis Upper Wax Cuticle Epidermis Palisade -Mesophyll Mesophyll Space Spongy Mesophyll Stoma Lower **Epidermis** Wax Cuticle Guard Cell with Chloroplasts Bubbles Pondweed Desk lamp Move lamp away by 10 cm intervals up to 50 cm

Green plants use carbon dioxide from air to make glucose. Photosynthesis equation:

### Light

Carbon dioxide + water -----> Glucose + Oxygen

#### Chlorophyll

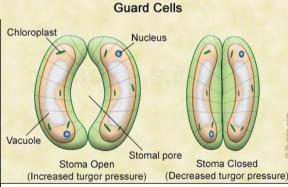
- Plants use glucose for growth and respiration and unused glucose is stores as starch (carbohydrate).
- Leaves are a major organ in plants and have features that allow them to photosynthesize and make glucose efficiently.
- o Leaves are flat, broad, green and have a network of veins.
- Leaves contain a green pigment called chlorophyll which absorbs sunlight energy for photosynthesis
- Leaves have a waxy waterproof cuticle; transparent epidermis; spongy cells with a large surface area and large spaces between them and long, narrow palisade cells packed with chloroplasts.

The rate at which photosynthesis occurs can be affected by three main factors:

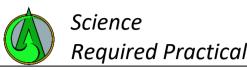
Light intensity, carbon dioxide concentration and temperature.

Water availability can also affect a plants ability to photosynthesise. Plants take in water and mineral ions through their roots. These substances are then transported up the stem and to the leaves and flowers by the **xylem cells**.

Plants need minerals like: nitrates, magnesium and phosphorous. A lack of minerals is known as a mineral deficiency.



Stomata open and close to control the flow of materials in and out of the leaf. Carbon dioxide, water vapour and oxygen flow into and out of the leaf. The stoma is controlled by guard cells.

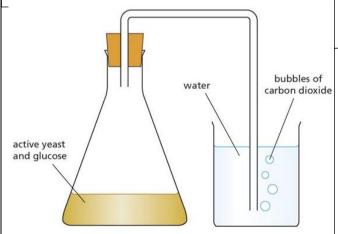


### Topic 3:

### Investigating anaerobic respiration

### Uses of anaerobic respiration

- In plants anaerobic respiration produces ethanol and carbon dioxide. This is called fermentation.
- Microbes e.g. bacteria, viruses and fungi, often respire via fermentation.
- Fermentation is used in brewing, baking and in producing alcoholic drinks.
- Fermentation is also used to make gasohol gasoline and alcohol.

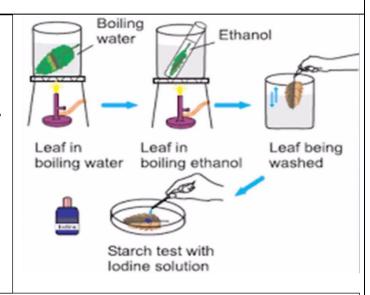


#### Investigating photosynthesis

- lodine can be used to test for the presence of starch in a leaf. This shows that a plant has photosynthesised.
- Iodine is orange. In the presence of starch, iodine turns blue-black.
- The diagram on the right shows the experimental procedure.

#### Questions

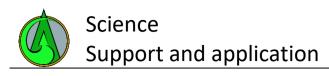
- Why is the leaf boiled in ethanol?
- Why do you need to be careful when using iodine?
- Why do leaves have a green colour?



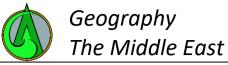
### Investigating fermentation (anaerobic respiration in microbes)

### The set-up on the left shows how to measure the effect of temperature on the rate of fermentation

- During fermentation, dried yeast is mixed with warm water in a conical flask.
- This activates the yeast.
- Sugar is added to the yeast to enable it to respire.
- As the mixture ferments, carbon dioxide is produced and bubbles in the conical flask
- The carbon dioxide can be collected and the number of bubbles counted.
- **Q:** What is the dependent and independent variable in this experiment?
- **Q:** Suggest what the control variables might be in this investigation



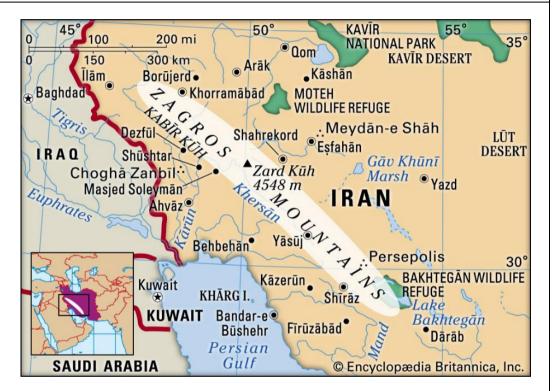
Vocabulary	Wider Research	Apply
1) Aerobic	Provide definitions for each key	How do we get energy?
2) Anaerobic	words in the vocabulary section	
3) Deficiency		a M/h., is magnitudian sometimes as a magnetic distribution of
4) Respiration		Why is respiration sometimes compared with burning?
5) Glucose	https://www.bbc.co.uk/bitesize/gui	
6) Lactic acid	<pre>des/zpwmxnb/revision/1 -</pre>	Why do we breathe deeply after vigorous exercise?
<ol><li>7) Oxygen debt</li></ol>	Photosynthesis	
8) Glycogen		11aaa aa'aatista kaasa thaasaakaa aafabaaa taatisa a laaf farratarah 2
9) Brewing	https://www.bbc.co.uk/bitesize/gui	How can scientists keep themselves safe when testing a leaf for starch?
10) Correlation	des/zpwmxnb/revision/2 -	Support (think about the chemicals being used and why they might be
11) Independent variable	Adaptations of a leaf for	dangerous)
12) Dependent variable	photosynthesis	
13) Repeatable		What is to consider the 2
14) Accuracy	https://www.bbc.co.uk/bitesize/gui	What is transpiration?
15) Control variable	des/zpwmxnb/revision/3 -	
16) Transpiration	Photosynthesis and respiration	How are water and mineral ions transported through plants?
17) Cuticle		·
18) Epidermis	https://www.bbc.co.uk/bitesize/gui	What happens to a plant that has a magnesium deficiency?
19) Palisade cell	des/zpwmxnb/revision/4 - Factors	what happens to a plant that has a magnesium dendency:
20) Spongy cell	that affect the rate of	
21) Stomata	photosynthesis	What happens to a plant that has a phosphorous deficiency?
22) Mitochondria	haras II haras I filtras at a fact	
23) chlorophyll	https://www.bbc.co.uk/bitesize/gui	How are plants adapted to reduce water loss?
24) lodine	des/zs3jrwx/revision/4 -	
25) Risk	Fermentation	- How is the energy from respiration used in animals?
26) Hazard		How is the energy from respiration used in animals?
27) Control measure		
28) Xylem cells 29) Transpiration		Challenge: Create a flowchart showing how photosynthesis and respiration
30) Fertiliser		are linked
30) rei tilisei		Challenge: Suggest how the required practical mentioned in the booklet could be
		improved.
		mproaca.

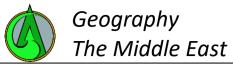


### **Section 1: Physical landscape**

- The Middle East is a region of the world that covers over 5 million square miles.
- The physical landscape is varied from lowland, flat locations to upland mountainous locations.
- Two tectonic plates have been moving apart for millions of years.
   These are the Arabian and African plates. This process has caused the formation of the Red Sea, which continues to widen to this day.
- The Red Sea is lined with many different volcanoes.
- Vast deserts are common in the region. The Sahara Desert runs across North Africa, essentially limiting settlement to along the Mediterranean coastline and in Egypt along the Nile River.
- The desert of the Arabian Peninsula is so inhospitable that it has been given the name "The empty quarter". Other significant deserts exist also throughout the Middle East.

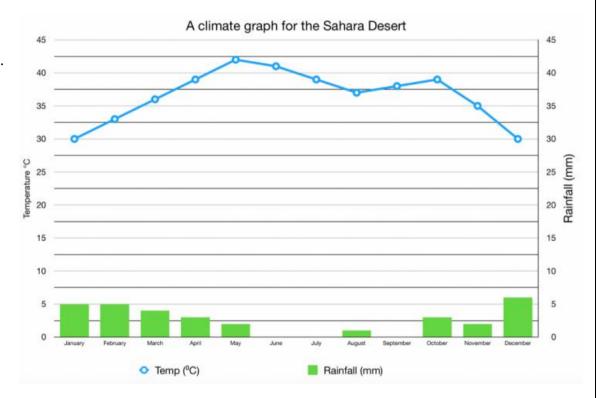






#### Section 2: Climate

- The Middle East is split into two climatic zones; The North and South.
- The South, which includes the Arabian Desert is very arid (dry).
- When it rains in the South it is usually between May and September.
- In some areas of the South it never rains at all.
- In the South, sometimes the temperatures can rise above 52 degrees Celsius.
- The North enjoys a Mediterranean climate with two distinct seasons:
  - Hot dry summers
  - o Warm, wet winters
- Countries in the North of the Middle East are trying to find ways to catch and store water as in these countries water is a very valuable and scarce resource.
- Climate types in The Middle East include:
  - o Humid subtropical
  - Semi-Arid
  - Desert
  - Mediterranean



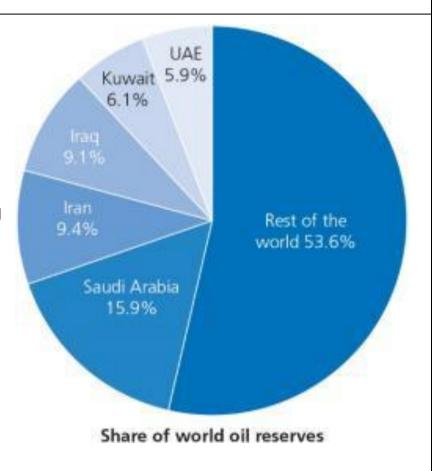


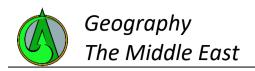
### Section 3: Oil and natural gas

- The Middle East is the source of the world's largest and most important reserves of crude oil and natural gas.
- The oil was discovered in 1908 in what was Persia (now Iran), with later discoveries all over the region.
- These discoveries were made just as the car was becoming an important means of travel and oil was needed as a source of fuel.
- This has brought great wealth to the Middle East.
- Many countries such as the UK, USA and Russia have a huge interest in the oil
  that the Middle East produces. This has caused much tension between
  nations as many trade wars have started as a result of oil trading.
- The UAE is one of the most powerful countries in the Middle East and one of the most prosperous. The UAE has seen great levels of economic development over the past 40 years though tourism and oil.









Vocabulary	Wider Research	Apply
1) Arid		,
2) Balance	https://www.youtube.com/watch?v=beGNG9X	Conduct your own research:
3) Climate	4TBI	Draw a detailed climate graph for a country of your choice in the Middle
4) Conflict		East.
5) Conditions	http://climateof.com/middleeast/index.asp	Make a detailed leaflet about the economics of the Middle East.
6) Development		Create a mind-map to show the impacts of climate change on the Middle
7) Diverse	https://www.worldatlas.com/webimage/count	
8) Drought	rys/asia/middleeast/melnd.htm	East.
9) Economic	Tys/asia/Illiudieeast/Illelliu.Ittiii	
10) Iran	https://www.infordones.com/atlac/middle	Answer these exam questions:
11) Iraq	https://www.infoplease.com/atlas/middle-	Describe the landscape of the Middle East.
12) Landscape	east	<ul> <li>Explain why volcanoes are found along the coastline of the Red Sea.</li> </ul>
13) Mediterranean		What type of plate boundary do you find closest to Iraq?
14) Mountainous	https://www.vox.com/a/maps-explain-the-	Justify the reasons for trading with the Middle East from the UK.
15) Natural gas	middle-east	Discuss why a rise in the price of oil would impact the Middle East's
16) Nile		economy.
17) Oil		coonomy.
18) Physical		Get creative:
19) Population 20) Precipitation		
21) Resources		Create a poster about Dubai and explain why it has one of the fastest
22) Saudi Arabia		growing economies in the Middle East.
23) Seasons		Create a Choropleth Map detailing the upland and lowland areas of the
24) Sustainable		Middle East.
25) Tectonics		Design a flag for a Middle Eastern country of your choice.
26) Trade		
27) UAE		
28) Uninhabitable		
29) Water scarcity		
30) Yemen		
,		



### Topic 1: Adolf Hitler and the start of WWII

#### Hitler's early life and army career

- Adolf Hitler was born on 20 April 1889 in Austria. He enjoyed reading, listening to music, painting and history.
- His father was a hard drinking bully who beat his son. His mother spoiled him and he loved her dearly.
- His mother died when he was 17. After her death, Hitler travelled to Vienna to look for work. He had dreams of becoming a famous painter.
- He was twice turned down by the Arts College. It was a Jewish professor who he refused his entry and a Jewish doctor who couldn't save his mother's life.
- Hitler was a 'runner' in the trenches for the German army. He risked his life daily and won two medals for bravery.
- Hitler hated the new German government for agreeing the terms to end WW1. He blamed them and the Jews.

### **The Treaty of Versailles**

• These were the terms that Germany were forced to agree to to end the war:

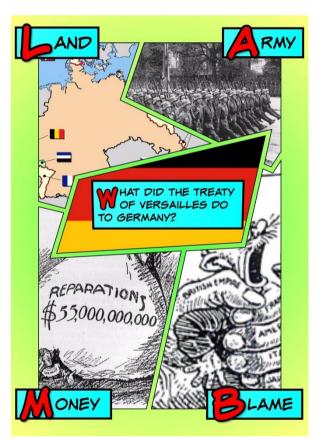
Land – they lost territory to France and were not allowed to join with Austria

Army – they were only allowed 100,000 men, a small navy and no air force at all

Money – they had to pay the allies £6.6 billion pounds in <u>reparations</u>

**B**lame – they were made to take all the responsibility for starting WWI

- When he gained political power in Germany, Hitler began to break these terms. He:
  - 1. Built up a massive German army
  - 2. Took back land lost at the end of WW1
  - 3. Invaded Czechoslovakia
  - 4. Invaded Poland
- The British Prime Minister, Neville Chamberlain, let Hitler get away with this in a policy called 'Appeasement'.





### **Topic 2: Blitzkrieg and Dunkirk**

#### **Blitzkrieg**

Blitzkrieg is German for 'Lightning War'.

The German army used new technology to defeat their enemies with aggression and speed:

#### STAGE 1 – Air attack

- Planes used to attack enemy troops, destroy bridges and communications and bomb enemy air force.
- Ammunition and other supplies taken forward and paratroopers dropped in.

#### STAGE 2 – Tank attack

- German 'Panzers' smash through enemy lines.
- The enemy become surrounded and surrender.

#### STAGE 3 – Infantry attack

- Large numbers of infantry are sent in to secure the captured land.
- This led to the British and French armies who were trying to push the Germans back out of France being cornered between the English Channel and the German army at a place called Dunkirk.

#### Dunkirk

- 300,000 British soldiers were trapped on the beaches so 'Operation Dynamo' was devised to rescue them.
- From the 26<sup>th</sup> May to the 4<sup>th</sup> June 1940, 330,000 troops were rescued and taken back to England by the Navy, fishing boats and pleasure craft.
- Some people think that with so many men rescued, it enabled Britain to recover and fight back. It also boosted the morale of the country.
- If Britain and France had not succeeded in rescuing their men, Germany may well have attempted to invade Britain.
- However, other historians believe that it was a victory for the Nazis as Britain left millions of pounds worth of equipment on the beaches.

## 3 Stages of 'Blitzkrieg'

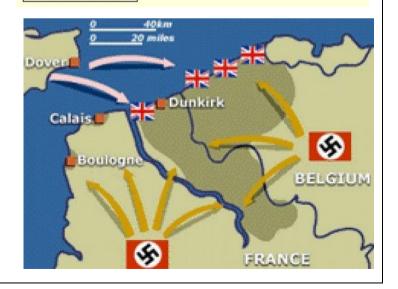
The Nazis were able to invade countries very quickly with the use of the 'blitzkrieg' (lightning war) method.

Stage 1
German air force
attack airfields
and communication
targets - power
lines, bridges,
railways etc.



Stage 2
Army move in using tanks and armoured cars - could break through lines quickly.







### **Topic 3: The Blitz**

#### What was the Blitz?

- After Hitler had failed to defeat the Royal Air Force during the Battle of Britain, the Luftwaffe turned their attentions to non-military targets.
- Britain carried out much of their own bombing on German cities.
- There were two main types of bombs dropped:
  - 1. Explosive bombs
  - 2. Incendiary bombs designed to cause fires
- The 7<sup>th</sup> September 1940 saw the first of 57 consecutive nights of bombing against British cities.

#### How did Britain prepare?

The government had prepared for these attacks in a number of ways:

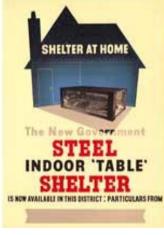
- 1. Providing resources to build Anderson and Morrison shelters.
- 2. Opening large air raid shelters underground.
- 3. Rationing food.
- 4. Providing everyone with gas masks.
- 5. Evacuating children to the countryside.
- 6. Ordering the 'blackout' of British cities.

### How much impact did the Blitz have?

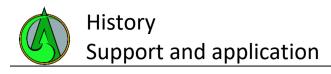
- In total, 20,000 people were killed and over a million homes were destroyed or damaged.
- Britain suffered further bombing in 1944 and the Germans had developed new weapons called V1 and V2 rockets that were really feared because there was little warning of attack.
- It is believed that Londoners adopted a 'Blitz Spirit' where they refused to let the bombing damage their morale.











Vocabulary	Wider Research	Apply
1) Anti-Semitism		
2) Anschluss	https://www.bbc.com/bitesize/guides/z9s9q6f/revision/2	
3) Land		1. Create a fact file about Hitler – his childhood, his time in the army,
4) Army		his rise in Germany and who he blamed for Germany's problems.
5) Reparations	https://www.bbc.co.uk/bitesize/clips/zwj4wmn	
6) Blame		
7) Treaty of		2. Create your own poster summarising the terms of the Treaty of
Versailles	https://www.bbc.co.uk/bitesize/guides/z9s9q6f/revision/2	Versailles – remember the acronym "BLAME".
8) Iron Cross		
9) Appeasement		2 Males Parafiles (Provident Provident Provide
10) Blitzkrieg	https://www.bbc.co.uk/bitesize/guides/z9s9q6f/revision/3	3. Make a list of the things that Hitler did to start World War 2.
11) Paratroopers		
12) Infantry		4. Company and the many and the mine 2 in 50 community
13) Dunkirk	http://www.bbc.co.uk/history/worldwars/wwtwo/ff2_dunkirk.shtml	4. Summarise the map on topic 2 in 50 words.
14) Operation		
Dynamo		5. In lesson we will be looking more at how Britain prepared for air
15) The Blitz	https://www.youtube.com/watch?v=LAGZpJ8FCaU	attacks so it is important that you gain your own understanding of
16) Luftwaffe		what the Blitz was.
17) RAF		what the bitz was.
18) The 'Few'	http://www.bbc.co.uk/history/worldwars/wwtwo/ff3_blitz.shtml	
19) Shelters		6. Make sure you use the link to read up on exactly what happened and
20) Blackout		how it affected British civilians.
21) Gas masks	https://www.youtube.com/watch?v=1VwY_UxXkYU	now it arrected british civilians.
22) Evacuation		
23) Rationing		7. https://www.youtube.com/watch?v=1VwY UxXkYU
24) Dig for Victory		Watch the link above. This provides a very simple explanation of
25) Home front		what the Blitz was and gives some very useful visual clues as to how
26) Blitz spirit		it impacted on British civilians' lives.
27) Morale		Tempasees on British divinario lives.
28) Propaganda		
29) Anderson		
30) Morrison		



# MFL - French Vocabulary

Vive les vacances! (Long live the holidays!)

Your teacher will tell you which topic you should revise. Read and learn all the information in the topic, ready for a Quiz in lesson.

**Topic 1: Tu es où en vacances ?** Where are you on holiday?

### Unité 0:

J'ai = I have

une semaine de vacances = a week of holiday deux semaines de vacances = two weeks of holiday

en janvier/ février (etc.) = in january/ february (etc.)

C'est pour Noël = It is for Christmas. C'est pour Pâques = It is for Easter. C'est pour les grandes vacances = It is for the summer holidays.



Tu es où en vacances? = Where are you on holiday?

Je suis en vacances...= I'm on holiday...

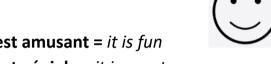
au bord de la mer = at the seaside

**à la montagne =** *in the mountains* 

à la campagne = in the countryside

en colonie de vacances = at a holiday camp

**chez mes grand-parents =** at my grandparents' home



- C'est amusant = it is fun
- C'est génial = it is great
- C'est ennuyeux = it is boring
- C'est intéressant = it is interesting
- C'est sympa = it is nice
- C'est nul = it is rubbish

### INTENSIFIERS

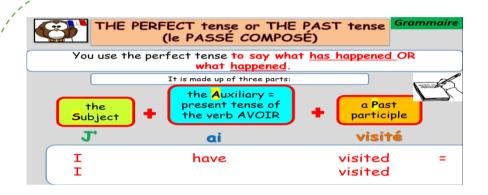
- Un peu = a bit
- assez = quite
- très = very
- quite = assez

# MFL - French Vocabulary

Vive les vacances! (Long live the holidays!)

Your teacher will tell you which topic you should revise. Read and learn all the information in the topic, ready for a Quiz in lesson.

### **Topic 2: Qu'est-ce que tu as visité ?** What did you visit ?



## "visiter" (to visit) in the PERFECT tense also called PAST tense (le PASSÉ COMPOSÉ)

Français	English
J'ai visité	I have visited = I visited
Tu as visité	You (sing., informal) have visited = You (sing, informal) visited
il/elle/ <mark>on</mark> a visité	He/she has visited , we have visited = he/she visited , we visited
Nous avons visité	we have visited = we visited
Vous avez visité	You (plur., formal) have visited = You (plur., formal) visited
ils/elles ont visité	They (masc./fem.) have visited = They (masc./fem.) visited

### Unité 1: Qu'est-ce que tu as visité? What did you visit?

J'ai visité...= I visited le château= the castle le lac= the lake le musée= the museum le parc= the park le stade= the stadium

la cathédrale= the cathedral la mosquée= the mosque

la chocolaterie= the chocolate shop

C'est...= It is...

C'était comment? = How was it?/ What was it like?

C'était...= It was...
génial= great

amusant= fun ennuyeux= boring

**intéressant**= interesting **sympa**= nice

**nul=** rubbish **moderne=** modern

### SEQUENCERS

**D'abord** = first of all après = after(wards)

**Ensuite** = next **finalement** = finally, last of all

**Puis** = then

<u>Topic 3 : Writing practice.</u> Use the vocabulary building below to write 5 complete sentences in French about what you visited when you went away. Include sequencers as you do so. Also, write a sentence to give your opinion about your visits. Then, translate the sentences into English. Write the title: Mes visites pendant mes vacances (My visits during my holidays).

			Qu'est-ce que tu	i as visitė?		M1 U1
Qu'est-ce q	ue tu as v	isité? v	What did you visit?	C'était com	ment? How was	it?
1	j'ai visité I visited	le the	château. castle.  lac. lake.  musée. museum.  parc. park.  stade. stadium.	C'était It was	assez quite  complètement completely  très very  un peu a bit	amusant. fun.  cool. cool.  ennuyeux. boring.  génial. great.  intéressant. interesting.
		la the	cathédrale. cathedral. chocolaterie. chocolate shop. mosquée. mosque.			moderne. modern. nul. rubbish. sympa. nice.