

# Year 10 Knowledge Organiser



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# Maths

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Hartford Church of England High School

#### Rounding

| Rounding to a given num-<br>ber of 1 decimal places | To do this put a line in 1 <b>number</b> after the <b>decimal point</b> (after the tenths). If the <b>number</b> after this line is less than 5 <b>round</b> down, or <b>round</b> up if the <b>number</b> is 5 or above. |
|---|---|
| Rounding to 1 significant figure.                   | The first non zero number is the first significant figure. All numbers after this should be zero.   |
| Rounding to 'n' signifi-<br>cant figures.           | The first non zero number is the first significant figure all other numbers including zero are significant.<br>Write the first n numbers then all the rest are zero.  |
| ESTIMATE a calculation,                             | Round every individual number to 1 significant figure then calculate the answer.  |

Simplify ratio: factors.

#### Divide by common



#### Ratio- difference between:

A bag contains yellow +blue blocks in the ratio 1:3 There are 8 more blue blocks than yellow blocks. How many yellow blocks are there?

#### Ratio- finding on quantity:

The ratio of boys to girls in a school is 4 : 5 There are 220 boys in the school. How many girls? BOYS Girls 5 x 55 x 55 275 220



#### **Bounds:**

x 4

How to find the upper and lower bound?

- 1. Half the degree of accuracy specified
- 2. Add to get the upper bound.
- 3. Subtract to get lower bound.

Find the lower and upper bound of 5.7 to 1 decimal place.

- 1. Half the degree of accuracy =  $0.1 \div 2 = 0.05$ .
- 2. Upper bound = 5.7 + 0.05 = 5.75.
- 3. Lower bound = 5.7 0.05 = 5.65.

#### Ratio- a way of comparing 2 or more quantities

#### Share in a ratio:

James and Helen get pocket money in the ratio 3:5. The total amount of pocket money they are given is £24. How much money do they each get?





# Maths - Higher



| Factorise- put into brackets<br>Difference of 2 squares:<br>$a^2 - b^2 = (a + b)(a - b)$            |            | band- multiply<br>t brackets                   | ,  | Orithmetic / Geometric sequences         Orithmetic Sequences       change by a common difference. This is found by addition or subtraction between terms         Geometric Sequences       change by a common ratio. This is found my multiplication/ division between terms.         Term to term rule – how you get from one term (number in the sequence) to the next term         Position to term rule – take the rule and substitute in a position to find a term E.a. Multiply the position number. |          | II Other sequences         II Fibonacci Sequence         II I, I, 2, 3, 5, 8    Each term is the sum of the previous two terms   |                  |   |
|---|------------|--|--|---|----------|--|------------------|---|
| Complete the square:<br>$x^{2} + bx + c$ $(x + \frac{b}{2})^{2} - \left(\frac{b}{2}\right)^{2} + c$ | Od         | Consecutive<br>integers:<br>n,n+1,n+2          |  |   |          | I manguar Numbers – look at the formation<br>II Square Numbers – look at the formation<br>II $\downarrow$ |                  |   |
| Quadratic formula:  | 2n<br>Even | +1   | hm   | by 3 and then add 2.  | <u> </u> |  |                  | vences are the repetition of a patten   |
| $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$<br>For a general equation:<br>$ax^2 + bx + c = 0$          | numbe      | er- 2n<br>where a <sub>n</sub> =<br>a =<br>d = | n <sub>n</sub> = a<br>n <sup>th</sup> t<br>first t<br>comr | a + (n - 1)d<br>erm of the sequence<br>erm of the sequence<br>non difference  | whe      | $a_n = ar^{n-1}$<br>re $a_n = n^{th}$ term of the se<br>a = first term of the se<br>r = common ratio   | quence<br>quence | $a = \underbrace{\text{Second difference}}_{2}$ $b = \text{The difference of each (Term - an^2)}$ $1^{\text{st}} \text{ term} = a + b + c$ Once you have found <i>a</i> , <i>b</i> and <i>c</i> you can slot these figures in the following formula.} $an^2 + bn + c$ |

# English



# **English - An Inspector Calls**

AN INSPECTOR CALLS



| <b>1912</b> – when the play was set. Just before WW1 (1914-18) and the sinking of the Titanic. JBP wanted to make sure audiences in 1945 recognised the problems of society in 1912  | Mr Birling  | The father. He is egocentric and capitalist businessman who works against social equality due to his own greed. He sacks Eva from his factory when she asks for equal pay for women and threatens a strike.  |  |
|--|-------------|--|--|
| before the wars (class system, capitalism, sexism) and weren't tempted to go back to<br>living like that. He wrote the play to highlight the dangers of the capitalist lifestyle.  | Mrs Birling | The mother. She is a superior and conceited capitalist who believes everyone is responsible for themselves. She doesn't help Eva when she comes to the charity for help because of her own prejudicial views against the proletariat.  |  |
| <b>1945</b> – when the play was written and performed. After WW2, society changed for the better. The benefits system started to be introduced and there was more equality for   | Inspector   | The interrogator. He is Priestley's mouthpiece (represents JBP's personal views) and a keen Socialist who fights for collective responsibility and encourages the Birlings to re-evaluate their outlook and their actions.   |  |
| women and less of a class divide because of different classes and different genders<br>integrating in order to assist with the war. JBP supported and encouraged these<br>changes and wanted to make sure he promoted them in his play by making capitalists<br>like the older Birlings appear ignorant and selfish.   | Sheila      | The daughter. She wrongly causes Eva to lose her job because she purposely misinterprets her actions. Sheila is initially ignorant of her privilege but transform her views as the play progresses and she eventually feels sympathy for Eva Smith's plight and starts to adopt increasingly Socialist views. By the end of the play, there is a huge disparity between Sheila's views and those of her parents.   |  |
| <b>Socialism</b> – JBP was a keen Socialist. This meant that he wanted everyone to look after each other rather than just caring about themselves. He was trying to promote this with  | Eric        | The son. Priestley hints that Eric is an alcoholic and it is heavily implied that his sexual encounter with Eva is not consensual and that she was raped. As a result of this, Eva falls pregnant and Eric resorts to stealing from his dad to give Eva money.   |  |
| the play, by making the Socialist characters like the Inspector much more insightful than the capitalist ones.   | Gerald      | Sheila's fiancé. Gerald is a businessman who has capitalist ideals and has similar political beliefs to Mr Birling. He shows some regret for his affair with Eva, but does not seem sincere in making any long-term changes to his beliefs   |  |
| Capitalism – JBP wished to challenge Capitalists – those who believe in individual profit  |             |  |  |
| over equality. He created Mr and Mrs Birling as an emblem for capitalism, in order to present capitalism as egocentric and regressive.   |             | <u>Plot</u>  |  |
| Outdated ideas – In 1912, the social classes were segregated, women got paid less than men for the same work, there was no benefit system or help with unemployment or housing. Society was patriarchal (men ruled).   | ACT 1       | The family are celebrating Sheila and Gerald's engagement. Mr B states there will be no war, and the Titanic is<br>unsinkable. An Inspector arrives and tells them Eva Smith has committed suicide. He urges Mr B to admit sacking her<br>from his factory because she threatened to strike over unfair wages. He refuses to accept any blame. The Inspector<br>encourages Sheila to admit that she caused Eva to lose her job at Milwards. She is contrite and ashamed of herself.  |  |
| Priestley, was a brandonstar and alay wright he also canved in the army in M/M/1   |             | The Inspector prompts Gerald to admit having an affair with Eva Smith (now called Daisy Renton after a name<br>change). Sheila consequently questions her relationship with Gerald. The Inspector coaxes Mrs B into admitting not  |  |
| Priestley saw, firsthand, during WW1, men from different paths in life/ classes coming together and working for the common, greater good. He believed that this mantra   | ACT 2       | helping Eva when she came to Mrs B's charity for help when she became pregnant because of her own prejudicia views. Mrs B attempts to evade blame by stating that it should be the father's responsibility. At the end of the Ar is revealed that the father of Eva's baby was Eric.   |  |
| should be taken forward in a broader context to make society more responsible for one<br>another. When working for the BBC as a broadcaster during WW2, Priestley broadcast a<br>series of short propaganda radio shows which were credited for strengthening civilian<br>morale. His left wing beliefs brought him into conflict with the government and<br>influenced the birth of the welfare state. The programme was eventually cancelled by<br>the BBC for being too critical of the government. | ACT 3       | Eric suggests that he raped Eva Smith which resulted in her pregnancy. The Inspector gives his final speech about fire,<br>blood and anguish. He warns the family that if they don't start to take responsibility for others, they will live to regret<br>it. The Inspector then leaves. Gerald seemingly discovers that the Inspector wasn't a real inspector. Mr B rings to<br>check and there is no Inspector Goole. Mr and Mrs B (and Gerald) celebrate. Sheila and Eric still feel guilty and can't<br>go back to how they were before.<br>Right at the end, the telephone rings and they are told that a girl has just committed suicide and an inspector is on his<br>way over to ask some questions. |  |

Key themes

GENERATIONAL DIFFERENCES: the older generation (Mr and Mrs Birling) are a symbol of capitalism, so they do not change their ways and they are reluctant to accept blame for their role in Eva's demise. The younger generation, on the other hand (Sheila and Eric) become a symbol of Socialism as the play progresses. They accept blame and want to change; they change throughout the play, for the better.

**RESPONSIBILITY** / JUSTICE - the Inspector, as Priestley's mouthpiece, is a symbol of Socialism – he wants everyone to look after each other and to view community as very important. He is sent to uncover the family's wrongdoings and to make them see that they should take responsibility for others. Sheila and Eric realise this, but Mr and Mrs B do not.

GENDER INEQUALITY-Priestley anted to show his audience that there was a lot of inequality back in 1912 when it came to how women were treated. By making certain characters out to be sexist, he highlighted this problem and tried to shame audiences into changing their own views about gender equality too. This is perhaps why the victim of their actions is a woman, and why she is working class (working class women were at the bottom of the pile in those times).

CLASS DIFFERENCES- Priestley wanted to highlight that inequality between the classes still existed and that the upper-classes looked down upon the working-class in post-war Britain. In An Inspector Calls, Priestley explores the theme of class through the treatment of working-class Eva Smith by the wealthy Birlings and Gerald Croft.



# **English - An Inspector Calls**

#### Dramatic

| reciniques         |   |
|--------------------|---|
| Dramatic Irony     | When the audience knows something that the characters don't. Used usually to create tension or humour.  |
| Tension            | A dramatic device used to create a sense of suspense or to make the audience feel on edge; tension is often created through the use of cliff-hangers    |
| Monologue          | A speech of some length which is usually directed to a second person, without them interrupting.  |
| Interruptions      | When characters cut into the speech of other characters and stop them from speaking.  |
| Contrast           | When two things are strikingly different to one another, serving to heighten their differences further.   |
| Repetition         | When a word or phrase is noticeably repeated throughout a sentence/ paragraph/ whole text   |
| Cyclical structure | When the opening of the story is mirrored, or is repeated at the end of the story – usually in order to convey a message about change (or lack thereof) |

# **Non-Fiction Writing**

| Language<br>Techniques                        | Definition   | Example   |                | Text Types  |
|---|--|---|----------------|---|
| Rhetorical question                           | A question asked in order to prompt further thought or to make a point rather than to get an answer.   | If not me, then who? If not now, then when?   |                | □the use of addresses<br>& date   |
| Anecdote<br>Simile                            | A very short story that is significant to the topic at hand;<br>usually adding personal knowledge or experience to the<br>topic.<br>A descriptive technique that compares one thing with | I once had a border collie. She was so smart. Every morning, I'd<br>open up the front door and she'd run out, pick up the newspaper,<br>and deliver it to my husband at the breakfast table.<br>He is as determinedly dishonest as a politician attempting to cover | Letter         | a tormal mode of<br>address e.g. Dear<br>Sir/Madam or a named<br>recipient            |
|   | another, usually using 'as' or 'like'.   | his latest immoral decision.  |                | sequenced paragraphs  |
| Emotive language                              | Words/ phrases deliberately used to evoke a powerful feeling from the reader i.e. sympathy, anger.   | I find the notion that I am not worthy of voting for my country's<br>next leader because of my age, both <u>demeaning</u> and deeply<br>insulting.  |                | of signing off: Yours sincerely/faithfully.   |
| Statistic                                     | A fact that is supported by numerical data.  | The Trussell Trust's foodbank network distributed 1,332,952 three day emergency food supplies to people in crisis, a 13% increase on the previous year. 484,026 of these went to children.  |                | Broadsheet =<br>formal/Local or tabloid<br>= informal                                 |
| Flattery                                      | Deliberately complimenting the reader.   | The very fact that you are reading this article suggests that you are<br>compassionate and understanding of the plight of your fellow man.  |                | □a clear/apt/original   |
| Hyperbole                                     | Deliberately exaggerated language.   | He was so obnoxious; I was hoping he would be arrested on the<br>spot and given a very long prison sentence purely for not saying<br>please or thank you.   | Article        | □a strapline &<br>subheadings<br>□an introductory                                     |
| Humour  | Describing a surprising or unexpected reaction to an<br>event/ person/ object to create amusement  | My brother may look angelic but do not be fooled by his toddler aesthetic: he is a tiny-but very real-psychopath.   |                | (overview) paragraph<br>Deffectively/fluently<br>sequenced<br>paragrapha              |
| Rule of three                                 | Using three words/phrases to add substance to what   | Increased costs; customer dissatisfaction and a decrease in employee  |                |   |
| Fact  | Something that is known or proven to be true.  | People enjoy feeling good. This is scientifically proven.   | Speech         | □a clear address to an<br>audience<br>□effective/fluently<br>linked sections to       |
| Eye-witness<br>quotation/ expert<br>quotation | Direct speech from a person who witnessed an event/<br>direct speech from someone who has an in-depth<br>understanding of the topic.   | The British Nursing Association said the move was "hugely<br>concerning" and a stark example of the "extreme workforce<br>pressure" at NHS emergency services, which are facing rising<br>demand while recruitment and retention of nurses gets harder.             | (text<br>only) | indicate sequence<br>□rhetorical indicators<br>that an audience is<br>being addressed |

Science





# Science - Evolution & Natural Selection

| XL [            | Ś  |  | Advantages: Increases the growth and yield of crop  | Risks and k  | penefits (practical and ethical)  | _                            |                                | PIXL  |   |
|-----------------|--|--|---|--|---|------------------------------|--------------------------------|---|---|
| s in excellence | A Solutions to the second seco |  | plants.<br>Disadvantages: Excess fertiliser can run off into lakes<br>and rivers and cause pollution leading to the death of<br>other plants and animals.   | Ganatic  | <b>Risks:</b> Seeds from GM plants<br>can be very expensive. Some<br>people think eating GM plants<br>is bad for health although<br>there is no evidence to support | Advantages and disadvantages |                                | d disadvantages of  |   |
| (Biology only   | (Biology onl<br>growing hum  | Biological control   | Advantages: Insects can be used to control weed<br>populations. No herbicides are necessary.<br>Disadvantages: Introduced insects can complete for<br>non weed plants and disrupt other species food<br>chains. | engineering  | this view.<br>Benefits: decreased use of<br>herbicide with increase in yield<br>from food crops. Medicines<br>tailored for individuals.                             |                              | genetic                        | Modification of crop<br>plants e.g. insect<br>resistance from<br>Bacillus<br>thuringiensis.                     | - |
|                 |  | Agricultural solutions   | EDEXCEL GCSE<br>NATURAL<br>Risks and<br>benefits  | Selective  | <b>Risks:</b> alleles that may be<br>useful in future may be bred<br>out. Populations with low<br>variation can be vulnerable to<br>genetic diseases.               | Ad                           | vantages                       | Modification of<br>bacteria to produce<br>human hormones<br>e.g. human insulin<br>made by bacteria.             |   |
|                 |  | Tissues  | SELECTION AND<br>GENETIC<br>MODIFICATION<br>PART 2<br>Genetic<br>engineering  |  | Benefits: Increased growth and yield of plants and animals for food.  |                              |                                | Resistant crops<br>could pass on genes<br>to wild plants<br>affecting food<br>chains.                           |   |
| Cloning         | g technique  | es in plants/animals   | Foreign DNA Plasmid<br>Ampcollin<br>resistance<br>gene<br>Ampcollin<br>resistance   | Modificat<br>an org<br>desira                                    | tion of the genome of<br>anism to introduce<br>ble characteristics  | / Disa                       | dvantages                      | Insulin produced<br>using GM bacteria is<br>not identical to<br>human insulin and<br>not everyone can<br>use it |   |
|                 | Sm<br>grow<br>so   | all groups of cells to<br>new plants in nutrient<br>lution or solid agar.                    | ends  | Genetic engi<br>1. Restriction en                                | ineering process (HT only)<br>zymes are used to isolate and   |                              |                                | use it.   |   |
| Tissue          | <b>Adv</b> a<br>presi<br>a   | Advantage: Important for<br>preservation of rare plants<br>and commercially in<br>nurseries. | Bacteria (may take<br>up plasmed web or<br>webout the insuer  | cut ou<br>2. If sticky ends<br>and the plasmid<br>jo             | t the required gene.<br>of DNA on the isolated gene<br>DNA match then they can be<br>bined together.  |                              |                                |   |   |
| culture         | Small  | groups of human cells<br>I to grow new tissues.  | or may not take up<br>plasmid at all).  | 3. DNA is joined<br>enzyme ligase                                | in the plasmid DNA using the<br>– bacterial plasmid or virus.   | lified crops                 | Crops the                      | To become<br>more<br>resistant to<br>insect   |   |
|                 | <b>Adva</b><br>can<br>rej  | ntage: matched tissues<br>be grown that are not<br>ected by the body's<br>immune system.     | Biacterial genome is<br>missing the lac2 gene.<br>Blue colonies<br>have plasmids<br>with the foreign<br>incert.   | 4. Gen<br>plants/animals/<br>or virus) at an e<br>they develop t | es are transferred to<br>microbes in a vector (bacteria<br>arly stage of development so<br>the required characteristics.  | Genetically mod<br>(GMO      | genes fro<br>other<br>organism | <ul> <li>attack or<br/>herbicides.</li> <li>To increase<br/>the yield of<br/>the crop.</li> </ul>               |   |



# Science - SC8 - Acids & Alkalis





# Science - SP5 - Electromagnetic Spectrum



# History

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### History - World War 1







– WW1 Countries (Europe)

|              | Timeline      |                     |                        |           |                  |                |                            |                              |
|--------------|---------------|---------------------|------------------------|-----------|------------------|----------------|----------------------------|------------------------------|
| 1914         | 1914          | 1914                | 1915                   | 1916      | 1917             | 1917           | 1918                       | 1918                         |
| War declared | Trenches dug  | An unofficial truce | Germans sink a         | Battle of | USA declares war | Russians leave | The 2 <sup>nd</sup> Battle | War ends officially          |
| on July 28th | by Germans in | declared on         | cruise ship called the | the       | on Germany on    | the war on     | of Marne -                 | on 11 <sup>th</sup> November |
|              | September     | Christmas Eve       | Lusitania              | Somme     | April 6th        | December 17th  | Allies win                 | at 11am                      |

|                | Key Vocabulary   |  |  |  |
|----------------|--|--|--|--|
| air force      | Invented by the Wright brothers in 1903, planes<br>played a vital role by the end of the war.        |  |  |  |
| animals        | Horses, donkeys and camels carried food, water,<br>ammunition and medical supplies.                  |  |  |  |
| bayonet        | A type of rifle with an attached knife at the end<br>for close and distance combat.                  |  |  |  |
| gas mask       | Protection against poisonous gas attacks (often a lethal chlorine gas) in the trenches.              |  |  |  |
| navy           | Allied forces had hundreds of ships to protect<br>British and the Empire's coasts.                   |  |  |  |
| poetry         | Famous poets wrote about the war at the time<br>such as Wilfred Owen and Siegfried Sassoon.          |  |  |  |
| рорру          | Used since 1921 as part of Remembrance Day, they grew back on many fields after the war.             |  |  |  |
| propaganda     | Posters and leaflets distributed throughout the<br>war to persuade people to join the army.          |  |  |  |
| rations        | Ration cards were given out and only a certain<br>amount of food per family was allowed.             |  |  |  |
| zeppelins      | Giant airships used to first bomb London in May<br>1915 but vulnerable to storms and allied attacks. |  |  |  |
| DAD DOC KATOWP |  |  |  |  |

Over 16 million people died during World War I. One of the largest battles of World War I was the Battle of the Somme in France. It lasted from 1 July to 18 November 1916. Around one million people were killed or wounded during that time.

#### GENERAL KNOWLEDGE

#### Who and Why?

*Allies:* Great Britain, France, Russia, Italy, Japan and USA *Central Powers:* Germany, Austria, Hungry, The Ottoman Empire (Turkey)

65 million soldiers fought and 16 million lost their lives. Austria-Hungry declared war on Serbia, and Germany threatened to invade France. Within a week, all of Europe was involved.

#### Trench Warfare

Long lines of trenches (walkways) were dug deep into the ground where soldiers could base themselves and fight from. Much of the war was fought between two opposing trenches with the land between them known as 'No Man's Land'. The Western Front was over 400km of trenches stretching from Belgium through NE France.

#### The End of the War

Allied forces gained ground quickly through 1918 and the Germans retreated. An Armistice agreement was made (a truce to bring about peace) on 11<sup>th</sup> day of the 11<sup>th</sup> month at 11am and submarines, canons, machine guns and train carriages were surrendered, including all prisoners of war. They also had to pay war damages.

#### FAMOUS FIGURES

#### Franz Ferdinand (1863-1914)

Archduke of Austria, whose assassination led to Austria-Hungry declaring war on Serbia at the beginning of World War I.

<u>Herbert Henry Asquith (1852-1928)</u> Prime Minister from 1908 to 1916, during the beginning of World War I.

David Lloyd George (1863-1945) Prime Minister from 1916-1922, during the end of World War I.

<u>Kaiser Wilhelm II (1859-1941)</u> Leader of Germany during World War I.

<u>Woodrow Wilson (1856-1924)</u> President of the United States during World War I, who helped to draw up the Treaty of Versailles which agreed the terms of peace.

#### King George V (1865-1936)

King during World War I, who declared the first Remembrance Day in 1918.



# History - World War 1

|    | Timeline   |  |  |  |  |  |
|----|--|--|--|--|--|--|
| 1  | 28 <sup>th</sup> June 1914 - Archduke Franz Ferdinand is assassinated in Bosnia  |  |  |  |  |  |
| 2  | 4th August 1914 – Britain declares war on Germany  |  |  |  |  |  |
| 3  | 8 <sup>th</sup> August 1914 Britain passes DORA (the Defence of the Realm Act) which gives the government powers such as to ration food, control the news and use factories. |  |  |  |  |  |
| 4  | September 1914 The French stop the German attack at Marne, leading to the start of Trench Warfare on the Western Front   |  |  |  |  |  |
| 5  | April 1915 – Poison gas is used for the first time at the Second Battle of Ypres   |  |  |  |  |  |
| 6  | June 1915 – The first ever 'dog fight' between German and British airplanes  |  |  |  |  |  |
| 7  | July 1916 – Battle of the Somme, the largest battle of the war.  |  |  |  |  |  |
| 8  | Sept 1916 – The ever first tank is used in the Battle of the Somme   |  |  |  |  |  |
| 9  | January 1917 – Conscription introduced in Britain  |  |  |  |  |  |
| 10 | <b>February 1918 – Representation of the People Act</b> , this gives the first time vote to men over 21 and women over 30  |  |  |  |  |  |
| 11 | 11 <sup>th</sup> November 1918 – An armistice is signed, Germany surrenders and WW1 ends   |  |  |  |  |  |
| 12 | <b>1919</b> – Government passes a law forcing women to leave their war time jobs as men return from the war and factories were not needed for wartime production             |  |  |  |  |  |



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| 13 | Trench Warfare   | Trench warfare is a type of fighting where both sides build deep trenches as a defence against the enemy. These trenches can stretch for many miles and make it nearly impossible for one side to advance.                                      |
|----|------------------|---|
| 14 | Western Front    | The area of fighting in western Europe in the First World War. A majority of fighting was done in North–Eastern France and Belgium in trenches  |
| 15 | Alliance         | An agreement between countries to protect each other in war. This was major cause of WW1, there were two main alliance in 1914. The Triple<br>Entente (France, Britain and Russia) and the Triple Alliance (Germany, Austria-Hungary and Italy) |
| 16 | War of Attrition | A war based on winning by wearing down the enemies armies, economy and morale. This happened in the First World War   |

### Key Concepts



# History - World War 1

| $\sim$ |                        |  |
|--------|------------------------|--|
| 17     | The BEF                | The British Expeditionary Force, Britain's army in 1914  |
| 18     | Conscription           | Compulsory order for all men 18 to 41 to join the army   |
| 19     | Schlieffen Plan        | German plan in 1914 to attack and defeat France, then attack Russia so they would not have to fight both.            |
| 20     | Stalemate              | A deadlock where no side is able to make progress to win.  |
| 21     | No Mans Land           | Area separating opposing armies in trench warfare.   |
| 22     | Tommy                  | Nickname for a British soldier.  |
| 23     | Barbed Wire            | Strong wire with sharp barbs at regular intervals, used to stop people passing.                                      |
| 24     | Mustard Gas            | Poisonous gas used by the Germans, French and British  |
| 25     | Artillery              | Large guns that fire explosive shells over long distances  |
| 26     | Trench Foot            | A painful condition of the feet caused by long exposure in cold water or mud, as a result some feet were amputated.  |
| 27     | Trench Fever           | A disease caused by lice bites which made soldiers very ill in the trenches.   |
| 28     | Dugout                 | Shelter dug into the side of the Trench  |
| 29     | Bayonet                | A blade attached to the end of a soldiers rifle  |
| 30     | Armistice              | An agreement made by tin a war to stop fighting.   |
| 31     | War effort             | How people at war and at home contribute to the war.   |
| 32     | Conscientious Objector | Someone who refuses to fight or be involved in war for religious, moral or political reasons, also called 'Conchies' |
| 33     | Suffragette            | Women who protested, using violent methods to achieve equal rights for women, like voting.                           |
| 34     | Suffrage               | The right to vote in political elections.  |
| 35     | Strike                 | Where workers refuse to work in protest  |
| 36     | Munitions              | Military weapons and ammunition  |
| 37     | David Lloyd George     | Prime Minster of Britain during and after WW1  |
|        |                        |  |

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Investigate the importance of the Battle of Arras

Investigate what happened at the Battle of Caporetto

How significant was Field Marshal Haig?

Investigate how troops from the British Empire helped Britain's to achieve final victory in WWI

# Geography

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# Hartford Church of England High School

# **Geography - Bristol**



#### Location and Population

Bristol is located in the south-west of England, approximately 5km to the west of Swindon.

Bristol has a population of 440,500 and is expected to reach half a million by 2029. It is the largest city in the south west.



#### The Importance of Bristol

#### Nationally:

- Two universities attracts students from around the UK
- Two cathedrals Bristol and Clifton
- Located on the M4 corridor with good road and rail links to London

#### Internationally:

- The largest concentration of silicon chip manufacture outside California
- Around 700,000 cars from Japan, Germany and Korea are imported to Bristol's docks each year
- Bristol airports links the city to major European centres
- The UK's eighth most popular city for foreign visitors

#### The impacts of national and international migration

In recent years' migration from abroad has accounted for about half of Bristol's population growth e.g. from EU countries such as Poland. Migrant workers are employed in a variety of sectors e.g. retail, health and manufacturing.

|  | Positive Impacts  |   | Negative Impacts  |
|--|---|---|---|
| <ul> <li>Mainly<br/>balance</li> <li>Hard we<br/>workfor</li> <li>Contrib<br/>nationa</li> </ul> | young migrants help to<br>and ageing population<br>orking, motivated<br>rce<br>uting to both the local and<br>I economy | • | Pressures on housing and employment<br>The need to provide education for<br>children whose first language is not<br>English<br>Challenge of integration within<br>community |

#### What changes are affecting Bristol?

- Bristol's population is growing rapidly
- The network of motorways, road, rail and air connections has made it more accessible
  - There are more people under the age of 16 than over 65
    - It's population is becoming more ethnically diverse

#### How can urban change create social opportunities in Bristol?

- **Culture** Youthful population means there is a range of bars and nightclubs The Colstan Hall has concerts and entertainment by major names in rock, pop and jazz
- Sport Bristol has two professional soccer teams City and Rovers and a rugby union team - all teams are developing their stadiums to provide a range of leisure and conference facilities and accommodation
- Shopping The city centre had become outdated and people had begun shopping in the out of town retail park at Cribbs Causeway. Developments to encourage people to shop in the CBD include; pedetrianising the area, providing a more attractive shopping environment (new street furniture floral displays and landscaping and improving public transport into the centre e.g. park and ride. Cabot Circus a £200 million shopping centre was built in 2008, it also has a cinema and 250 apartments



# **Geography - Bristol**



- The major change in Bristol's industry has been the increased number of people working in high-tech companies. There are 50 microelectronic and silicon design businesses in Bristol. The following factors attract high-tech businesses to Bristol: a government grant of £100 million to become a super connected city with high broadband speeds, advanced research at the universities and an educated and skilled workforce.
- Example Aardman Animations based in Bristol. The studio has been well known for its films using stopmotion clay animation techniques e.g. Wallace and Gromit – its films have won an Oscar and many other award

#### How can urban change create environmental opportunities in Bristol?

- 2015 Bristol awarded European Green Capital with a plan to achieve the following by 2020, transport improvements, improved energy efficiency and development of renewable energy
- Bristol plans to develop an integrated transport system linking different forms of public transport within the city. The aim is to get people to travel using public transport instead of cars – reducing congestion and air pollution.
- The Rapid Transit Network consists of three bus routes from Temple Meads train station with the city's park and ride sites.
- Urban greening 1/3 of Bristol's is open space and more than 90% of people love within 350m of parkland and waterways. Bristol has 8 nature reserves and 300 parks. Queen Square was once a dual carriage way but is now transformed into a cycle way with open space. Green initiatives include: 30% of city to be covered in trees.

#### How has urban change in Bristol created challenges? Social and economic challenges:

- Urban deprivation Filwood (south of Bristol) is in the top 10 % of the most socially deprived areas in the country. In 2018 a survey by Bristol City Council revealed that more than a third of people living in Filwood and over half the children were in very low-income households.
- Inequalities in housing Housing in Filwood is split equally between owner occupied and those rented from the city council. Compared to Stoke Bishop in the north of Bristol where 81% of the housing is owner occupied. Most of the council houses in Filwood were built in the 1930s and are poorly insulated.
- Inequalities in **education** In Filwood in 2013 only 36% of students got top grades at GCSE, including English and Maths compared to 94% in Stoke Bishop
- Inequalities in health In Filwood death rates from cancer are higher than average and life expectancy is 78 years compared to 83 years in Stoke Bishop
  - Inequalities in employment Only 3% of people in Stoke Bishop are unemployed compared to 1/3 of people aged 16-24 in Filwood.

# How has urban change in Bristol created challenges? Environmental challenge

Dereliction – Changes in the economy and industry in Bristol have led to many industrial buildings that are no longer being used becoming derelict. This is mainly in the inner city. When the port function moved downstream from the city many warehouses were abandoned and fell into decay.
 Stokes Croft in Bristol's inner city became

notorious for its derelict housing and abandoned properties and many empty houses have been taken over by squatters and the area has suffered from anti-social behaviour. **Solution** - Bristol City Council has received lottery grants to help improve the poor economic activity and urban decay in the area. Artists wanted to improve the areas through public action and community art.

# **Geography - Bristol**



#### How has urban change in Bristol created challenges? Environmental challenges

• **Urban sprawl** – Urban sprawl has extended particularly to the north-west of the city. The new town of **Bradley Stoke** has extended the city to the north.

Solution - Between 2006 and 2013 only 6% of new housing developments were on greenfield land and by 2026 over 30,000 new homes are planned on brownfield sites. The green belt was set up to prevent urban sprawl on the rural-urban fringe and the merging of the cities Bath and Bristol. Towns to the north and south of the city, such as **Clevedon** has expanded to become **commuter settlements** so that people are able to travel

from surrounding areas to work in the city.

• Waste disposal – The city produces half a million tonnes of waste per year. It is among the worst cities in the country in terms of the amount of food waste it creates.

**Solutions** - A range of strategies have been adopted to cope with the problem of waste disposal e.g. reducing the amount of waste that has to be sent to landfill and reducing the amount of waste generated per household by 15%. Bristol's population has increased by 9% since 2000 and the amount of household waste has reduced by 18% in the same period.

 Atmospheric pollution – Vehicle emissions are the main cause of air pollution in the city. Bristol is the most congested city in England and the main bus routes are often the most polluted. An estimated 200 people die in the city each year due to air pollution.
 Solutions- Plans to reduce air quality include reducing speeds on motorways and residential areas and a smartphone app with information about public transport.

#### Named Example: The Temple Quarter Regeneration Reasons why the area needed regeneration:

The Temple Quarter was very rundown. It gave a bad first impression to visitors, as it was the first part of the city seen by anyone driving from Wells or Bath. The Temple Quarter was developed as an industrial areas in 18th Century. The land was mainly disused and in a state of dereliction.

#### The main features of the project:

- New bridge built across the River Avon to the site of the former diesel depot – This was intended to give access to the New Bristol Arena (to be used for sporting events with up to 12,000 spectators) however the Arena is now being built outside of the city centre.
- Improved access in and around Bristol Improvements to Temple Meads station to encourage more people to travel by train
- Improved road layout with links to the rapid transport network and the Bristol Bath cycle network

 Enterprise zone status – 240,000m2 of either new or refurbished buildings, creating offices, homes and shops. The target is to create 4000 jobs by 2020 and 17000 by 2037 e.g. Brunel's engine shed - A £1.7 million innovation centre is being created – home to high-tech, creative and low carbon sector companies.

#### **Potential Exam Questions on Bristol**

Outline one way that international migration has led to change in the character of a named UK city. (2) Suggest why there are inequalities in health in urban areas. (4) Suggest reasons for inequalities in education in urban areas in the UK (4) Discuss the effects of urban sprawl on people and the environment. (6) To what extent has urban change created environmental challenges in a UK city you have studied? (9) To what extent has urban change created opportunities in a UK city you have studied? (9)

# Religious Studies

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| Y10 - Existence of God and revelat   | <b>Argument from miracles-</b> Miracles can't be explained by science or nature so they are supernatural and must be performed by God   |   |  |
|--|---|---|--|
| <ul> <li>Design Argument</li> <li>The world looks designed → therefore it must have a designer → this can only be 0</li> <li>Paley: the watch analogy- you would expect a watch to be designed not made</li> <li>Newton: the human thumb must have been designed <i>'…the thumb alone would</i></li> <li>F.R. Tennant- all the conditions on earth are right for human development</li> <li>But others argue:</li> <li>Evolution happened by chance</li> <li>Why would God have designed a world with suffering and flaws such as earther</li> <li>The order in the universe is imposed by humans, not God</li> </ul>  | <ul> <li>nature so they are supernatural and must be performed by God</li> <li>Some argue that miracles do happen:</li> <li>Christianity based on miracles of the <i>incarnation and resurrection</i></li> <li>Jesus performed miracles e.g. <i>raising of Lazarus, calming the storm, healing the paralysed man</i></li> <li>Many miracles have taken place and happen today e.g. healings (Lourdes) But:</li> <li>Atheists say that miracles are just coincidences or that they have scientific explanations, but we don't know them</li> <li>Hume says it is unfair if God only worked miracles for some people</li> </ul> |   |  |
| First Cause Argument (Thomas Aquinas)<br>Everything has a cause→ the universe must have a cause→ that cause must be<br>uncaused→ this must be God who is eternal→ therefore God must exist<br>But some people argue:<br>Why doesn't God have a cause if everything else does?/The Big Bang caused the<br>universe by chance/The universe has always existed and so doesn't need a cause  | General revelation- w<br>• Nature- creation show<br>• Bible- word of God wh<br>• Lives of Christians- the<br>• Conscience- can be se<br>• Worship- e.g. praying   | when God reveals himself in ways<br>vs what God is like: <i>'the heavens</i><br>nich teaches and comforts Christi<br>ese may show that God is workin<br>een as the voice of God telling us<br>and Holy Communion may revea  | available to anyone<br>declare the glory of God'<br>ans<br>g in them e.g. Mother Theresa<br>what is right and wrong<br>al God's presence   |
| <ul> <li>Arguments against the existence of God<br/><u>Science</u>: Atheists argue-</li> <li>There is no need to believe in God now we know the Big Bang started<br/>everything</li> <li>Genesis has been disproved by scientific theories<br/>But Christians respond-</li> <li>Science just shows how God made things- Kepler 'science is the process of<br/>thinking God's thoughts after him'</li> <li>Science can't prove or disprove God, we need science and religion<br/><u>Suffering</u>: Problem of evil- if God is all loving and all powerful why is there evil?<br/>Either he is not powerful enough or not loving enough to stop it. So, some<br/>believe that suffering disproves God<br/>But Christians respond:</li> <li>God gave humans freewill to choose good or evil</li> <li>Adam and Eve disobeyed God which led to suffering</li> <li>If there was no evil people could not show good qualities such as love</li> </ul> | <ul> <li>Special revelation- when God<br/>and direct personal experience o</li> <li>Visions- e.g. on the road to Da<br/>Jesus</li> <li>Dreams- e.g Joseph was told h<br/>marry Mary</li> <li>Hearing God's call- e.g. Jeremi<br/>you apart'</li> <li>Miracles- e.g. Jesus raised Laza<br/>resurrection and the life'</li> <li>Prophecy – e.g. God told OT p<br/>Importance: point to God's exister<br/>wants them to live, can lead to b<br/>However, atheists argue revelation<br/>drugs, wishful thinking, mistake,</li> </ul>  | gives an individual or a group<br>f himself<br>mascus Paul saw a vision of<br>e should not be afraid to<br>ah: 'Before you were born I set<br>arus from the dead: 'I am the<br>rophets what would happen<br>ence, show people how God<br>ecoming a Christian<br>ons can be explained by e.g.<br>mental illness, lying | Ideas of the divine<br>Muslims and Christians believe God is:<br>omnipotent, omniscient, benevolent,<br>personal, immanent and transcendent<br>Evidence that God is transcendent:<br>-God is creator and so outside creation:<br>'in the beginning God created the<br>heavens and the earth'<br>-Jesus said to pray 'our Father in heaven'<br>-Evidence that God is immanent:<br>-humans can talk to God 'our Father'<br>-Jesus lived on earth and revealed God<br>-Jesus sent the Holy Spirit to earth to<br>help Christians<br>-Miracles and answered prayer |

# Spanish



# Spanish

### El tiempo libre

| Los verbos Iregulares  |                          |  |
|------------------------|--------------------------|--|
| Dar un paseo           | To go for a walk         |  |
| Practicar (el deporte) | To practise (sports)     |  |
| Jugar al tenis         | To play tennis           |  |
| Jugar al fútbol        | To play football         |  |
| Jugar al baloncesto    | To play basketball       |  |
| Jugar al ajedrez       | To play chess            |  |
| Jugar a las cartas     | To play cards            |  |
| Hacer ejercicio        | To do exercise           |  |
| Hacer gimnasia         | To do gymnastics         |  |
| Hacer esqui            | To do ski                |  |
| Hacer atletismo        | To do athletics          |  |
| Hacer ciclismo         | To do cycling            |  |
| Hacer alpinismo        | To do rock climbing      |  |
| Hacer natación         | To do swimming           |  |
| Hacer vela             | To do sailing            |  |
| Hacer Piragüismo       | To do canoeing           |  |
| Tocar la guitarra      | To play the guitar       |  |
| Tocar el piano         | To play the piano        |  |
| Ir a pescar/ comprar   | To fish / To go shopping |  |
| Ir a un concierto      | To go to a concert       |  |
| Ir a al cine           | To go to the cinema      |  |
| Ir al entrenamiento    | To go to training        |  |
| Salir a comer          | To go out for dinner     |  |
| Salir con mis amigos   | To go out with friends   |  |

| Ver un partido                         | To watch a match                 |
|--|----------------------------------|
| Ver la televisión                      | To watch tv                      |
| Ver un programa de<br>telerrealidad    | To watch a reality tv programme  |
| Ver una serie policíaca                | To watch a police series         |
| Ver una telenovela                     | To watch a soap                  |
| Ver una comedia                        | To watch a comedy                |
| Ver un documental                      | To watch a documentary           |
| Ver los dibujo animado                 | To watch cartoons                |
| Ver las noticias                       | To watch the news                |
| Ver una película de ciencia<br>ficción | To watch a science fiction movie |
| Ver una película de miedo              | To watch a horror movie          |
| Ver una película de amor               | To watch a romantic movie        |
| Ver una película de risa               | To watch a comedy                |

#### <u>Irregular ver</u>

- Tener to have (tengo, tienes, tiene, tenemos, tenéis, tienen)
- Dar to give (doy, das , da, damos, dais, dan)
- Tocar -to play (toco, tocas,toca,tocamos,tocáis,tocan)
- Ir to go (voy, vas , va ,vamos, vais van)
- Salir to go out (salgo, sales, sale, salimos, salís, salen)
- Ver to see (veo, ves, ve, vemos, veis, ven)
- **Jugar** to play (juego, juegas, juega, jugamos, jugáis, juegan) **Hacer** – to do (hago, haces, hace, hacemos , haceis , hacen)

| Los verbos regulares            |                                  |  |
|---------------------------------|----------------------------------|--|
| Cantar en un coro               | To sign in a choir               |  |
| Nadar                           | To swim                          |  |
| Escuchar música clásica         | To listen to classical music     |  |
| Escuchar música pop/rock        | To listen to pop/rock music      |  |
| Escuchar canciones / letras     | To listen to songs/lyrics        |  |
| Escuchar a mi cantante favorito | To listen to my favourite singer |  |
| Patinar                         | To skate                         |  |
| Leer una revista                | To read a magazine               |  |
| Leer un periodico               | To read a newspaper              |  |
| Leer una novela                 | To read a novel                  |  |
| Participar en un torneo         | To take part in a tournament     |  |
| Escuchar música                 | To listen to music               |  |
| Chatear por internet            | To chat for internet             |  |
| Descansar                       | To rest                          |  |
| Ganar/ Perder                   | To win/ To lose                  |  |
| Empatar                         | To draw                          |  |
| Marcar un gol                   | To score a goal                  |  |
| Entrenar                        | To train                         |  |
| Mantenerse en forma             | To keep fit                      |  |
| Bailar                          | To dance                         |  |
| Aprender algo nuevo             | To learn something news          |  |

#### Common mistakes to avoid:\_How to say

| ' <b>on</b> Friday' - el Viernes |  |  |
|----------------------------------|--|--|
| Free - libre - available         |  |  |
| Tiempo has 2 meanings:           |  |  |
| Tiempo libre - free <b>time</b>  |  |  |

'on Sundays - los domingos Free - gratis - no cost

El tiempo - the weather







### El tiempo libre

| Time Phrases          |                   | Tenses   |         |         |                                   | Opinions                              | Reasons                                   |                          |
|-----------------------|-------------------|----------|---------|---------|-----------------------------------|---------------------------------------|---|--------------------------|
| Una vez a la semana   | once a week       | Present  |         |         | Se me da hien/mal Lam good/had at | burrido                               | boring                                    |                          |
| Dos veces a la semana | twice a week      |          | AR      | ER      | IR                                |                                       | divertido                                 | fun/interesante          |
| Siempre               | alwavs            | 1        | -0      | -0      | -0                                | No se me da bien I am not good at     | emocionante                               | exciting                 |
| Nunca                 | never             | You      | -as     | -as     | -as                               | Me gusta(n)   like                    | sano                                      | healthy                  |
|                       | i                 | Lia /sha |         |         |                                   |                                       | malsano                                   | unhealthy                |
| Todos los días        | everyday          | He/she   | -a      | -а      | -a                                | No me gusta nada I do not like at all | fácil /sencillo                           | easy                     |
| Muchas veces          | often             | We       | -amos   | -amos   | -amos                             |                                       | difícil /duro                             | hard                     |
| A menudo              | often             | You all  | -aís    | -aís    | -aís                              | Me encanta(n) I love                  | seguro                                    | safe                     |
| Aveces                | sometimes         | They     | -an     | -an     | -an                               | Me chifla I really love               | peligroso                                 | dangerous                |
|                       |                   |          | Deat    |         | E. A                              | , , , , , , , , , , , , , , , , , , , | caro                                      | expensive                |
| Cada semana           | every week        |          | Past    |         | Fut                               | Me mola I really love                 | barato                                    | cheap                    |
| Por lo general        | generally         |          | AR      | ER / IR | Ar/Er/Ir                          |                                       | útil                                      | useful                   |
| Todas las tardes      | everv afternoon.  | 1        | -é      | -í      | Voy a +Inf                        | No aguanto I cannot stand             | inútil                                    | useless                  |
|                       | <b>c</b>          | Mari     |         | inte    |                                   | No conorto I connot stand             | estresante                                | stressful                |
| De vez en cuando      | from time to time | You      | -aste   | -iste   | vas a +int                        |                                       | relajante                                 | relaxing                 |
| Normalmente           | normally          | He/she   | -ó      | -ió     | Va a +Inf                         | Me parece que I think that            | vale la pena                              | it is worth it           |
| Cada guince días      | every fotnight    | We       | -amos   | -imos   | Vamos a                           |                                       | una pérdida de tiempo                     | a waste of time          |
|                       | , 0               |          |         |         | +inf                              |                                       | me ayuda a relajarde                      | it helps me to relax     |
|                       |                   | You all  | -asteis | -isteis | Vais a                            |                                       | me ayuda a olvidarme de                   | los problemas de la vida |
|                       |                   | They     | -aron   | -ieron  | Van a +Inf                        |                                       | moderna (it helps me to f<br>modern life) | orget the problems of    |
|                       |                   |          | 0.011   |         |                                   |                                       |   |                          |

#### Impress the examiner: Using 2 verbs together

- Note how the second is in the infinitive.
- Voy a cocinar I am going to cook.
- Espero salir I hope to go out

- Tengo que ir a clase I have to go to class.
- Pienso ver I'm thinking of watching.
- Me gustaría ir al cine I would like to go to the cinema.

| Impress the examin                         | i <u>er:</u>                          |  |  |
|--|---------------------------------------|--|--|
| ¡Qué guay!                                 | How amazing!                          |  |  |
| ¡Qué rollo!                                | How boring!                           |  |  |
| Impress the examiner with top connectives: |                                       |  |  |
| Impress the examin                         | er with top connectives:              |  |  |
| Impress the examin                         | er with top connectives:              |  |  |
| Así que                                    | So that                               |  |  |
| Impress the examin                         | <mark>er with top connectives:</mark> |  |  |
| Así que                                    | So that                               |  |  |
| Por eso                                    | That is why                           |  |  |

| Impress the examiner with negatives: |                 |  |
|--------------------------------------|-----------------|--|
| Jamás                                | Never           |  |
| Татросо                              | Neither/ either |  |
| Ya no                                | No more/longer  |  |
| Nada                                 | Nothing         |  |
| Nadie                                | Nobody          |  |
| Ninguno                              | No one          |  |



# Spanish



### Knowledge organiser: Los Festivales y Las Costumbres

| Los verbos          |                          |  |
|---------------------|--------------------------|--|
| Disfrutar           | To enjoy                 |  |
| Ir de fiesta        | To go to a party         |  |
| Ir de marcha        | To go out                |  |
| Cantar              | To sing                  |  |
| Saltar              | To jump                  |  |
| Dormir              | To sleep                 |  |
| Montar la tienda    | To set up the tent       |  |
| Empezar             | To start                 |  |
| Llegar              | To arrive                |  |
| lr                  | То до                    |  |
| Celebrar            | To celebrate             |  |
| Lanzar              | To throw                 |  |
| Organizar           | To organise              |  |
| Llenar              | To fill                  |  |
| Construir           | To build                 |  |
| Quemar              | To burn                  |  |
| Disparar            | To set/ To shoot         |  |
| Correr              | To run                   |  |
| Brindar con champan | To toast                 |  |
| Cantar villancicos  | To sing Christmas Carols |  |
| Dar regalos         | To give presents         |  |
| Recibir regalos     | To receive presents      |  |
| Disfrazarse         | To get dressed up        |  |
| Divertirse          | To enjoy oneself         |  |
| Disfrutar           | To enjoy                 |  |

| Los adjetivos |                 |  |
|---------------|-----------------|--|
| Emocionante   | To enjoy        |  |
| Popular       | Popular         |  |
| Entretenido   | Entertaining    |  |
| Impresionante | Impressive      |  |
| Chulo         | Great/Cool      |  |
| Hermoso       | Pretty          |  |
| Único         | Unique          |  |
| Fascinante    | Fascinating     |  |
| Genial        | Great/wonderful |  |

| Las opinions en el pasado |                        |  |
|---------------------------|------------------------|--|
| Me gustó                  | I liked                |  |
| Me encantó                | l loved                |  |
| Lo pasé bien/mal          | I had a good time      |  |
| Disfruté                  | I enjoyed myself       |  |
| A mi madre le gusto       | My mum liked it        |  |
| Mi padre disfrutó         | My dad enjoyed himself |  |
|                           |                        |  |

#### Impress the examiner. Costumbres típicas de España Desayunar poco • Comer/almorzar mucho y tarde Cenar poco y tarde • Descansar o dormir la siesta Dormir menos por la noche • Acostarse tarde • Salir a la calle por la tarde • Tomar tapas

- No llevar uniforme al colegio
- Disfrutar del buen tiempo
- Celebrar el cumpleañosos y el santo

#### Common mistakes to avoid:

The past tense of IR and SER is the SAME so fui means – I was AND I went.

It is also usual to get FUI (I went/was mixed up with FUE he she it went / was)

|                                       |                 |          | •••       |   |
|---------------------------------------|-----------------|----------|-----------|---|
| 1                                     |                 | 1        |           |   |
|                                       | Be careful in t | ite.     |           |   |
| :                                     | SER             | Spanish  | IR        |   |
| :                                     | I was           | Fui      | I went    |   |
|                                       | You were        | Fuiste   | You went  |   |
|                                       | He/ she /it /   | Fue      | He / she  |   |
|                                       | you formal      |          | /it/ you  |   |
|                                       | was             |          | fml went  |   |
| :                                     | We were         | Fuimos   | We went   |   |
| :                                     | Youse were      | Fuisteis | Youse     |   |
|                                       |                 |          | went      |   |
|                                       | They were       | fueron   | They went | į |
| · · · · · · · · · · · · · · · · · · · |                 |          |           |   |

| In the preterite tense |           |  |  |
|------------------------|-----------|--|--|
| Tener                  | Hacer     |  |  |
| Tuve                   | Hice      |  |  |
| Tuviste                | Hiciste   |  |  |
| Tuvo                   | Hizo      |  |  |
| Tuvimos                | Hicimos   |  |  |
| Tuvisteis              | Hicisteis |  |  |
| tuvieron Hicieron      |           |  |  |



# Spanish



# Knowledge organiser: Los Festivales y Las Costumbres

| Los sustantivos       |                     |                       |                       |
|-----------------------|---------------------|-----------------------|-----------------------|
| La costumbre          | The costume         | La fiesta             | Party                 |
| La Pascua             | Easter              | El festival           | Festival              |
| La Tomatina           | Tomato Fight        | Muerto                | Dead                  |
| Las Fallas            | Las Fallas          | Disfraz               | Fancy dress           |
| San Fermín            | San Fermin          | Altar                 | Altar                 |
| Las corridas de toros | Bull fighting       | Una flores            | Flowers               |
| El encierro           | Bull run            | Fuegos artificiales   | Fireworks             |
| El Día de los Muertos | The Day of the Dead | Petardos              | Fireworks (small)     |
| El Carnaval           | Carnival            | Una hoguera           | Bonfire               |
| La Navidad            | Christmas           | Una figura            | A figure              |
| La Nochebuena         | Christmas Eve       | Un plato típico       | Typical dish          |
| Noche vieja           | New Year's Eve      | Un festival de música | Un festival de música |
| Año Nuevo             | New Year            | El cantante           | Singer                |
| La Feria de Abril     | April Fair          | El grupo              | Group                 |
| El árbol de navidad   | Christmas tree      | Las letras            | lyrics                |
| una estrella          | A star              | Las coreografías      | choregraphy           |
| Papa Noel             | Father Christmas    | El comportamiento     | Behaviour             |
| Los 3 Reyes Magos     | Three Wise Men      | El estilo de vestir   | Dress style           |
| Calavera              | Skull               | Su voz                | His/her voice         |
| El belén              | Nativity            | Desfile               | Porcesions            |
| Regalos               | Present/ Gift       | Sus canciones         | His/her songs         |
| Vela                  | Candle              | La tienda de campaña  | Tent                  |
| El diablo             | The devil           | El saco de dormir     | Sleeping bag          |
| La Reina              | Queen               | La pulsera            | Bracelet              |

| Impress the Examiner- Key Spanish Festivals<br>http://www.huffingtonpost.es/2014/07/05/mejores<br>fiestas-populares-espana n 5558017 html |       |  |  |
|---|-------|--|--|
| Las Fallas - Valencia   |       |  |  |
| San Fermín - Pamplona Tomatina - Buñ  | íol   |  |  |
| Moros y Cristianos - Alicante   | *     |  |  |
| El Colacho - Burgos   | au au |  |  |
| Feria de Abril - Sevilla  | 09    |  |  |
| Carnaval - Sta Cruz de Tenerife   | */~   |  |  |
| El descenso de la Sella - Ribadesella   |       |  |  |
| San Miguel - Lleida   |       |  |  |
| Semana Santa - Valladolid   |       |  |  |
| L   |       |  |  |









#### Advantages of using Spreadsheets:

- They can simulate real life events safely.
- When actioned correctly, formula will automatically update the result of a calculation when data in amended.
- Data can be presented in the form of charts and graphs.
- You can carry out "what if?" investigations. For example, the grocer could increase his prices to see the effect on sales and the builder could increase his hourly charge to see the effect on his daily total.

| Knowing your Graphs |   |  |  |
|---------------------|---|--|--|
| Line Graph          | To show a change over time.                             |  |  |
| Pie Chart           | To show the individual parts that make up a whole.      |  |  |
| Bar Chart           | To compare things that aren't directly related.         |  |  |
| Scatter Graph       | To look for a pattern or link between two sets of data. |  |  |



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# Computer Science

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# **Creative Science - Algorithms**

| COMPUTATIONAL THINKING  |   |  |  |
|---|---|--|--|
| Abstraction •Focussing on just the important details of a problem |   |  |  |
| Decomposition   | •Breaking a problem down into smaller parts so that it is easier to solve |  |  |
| Algorithmic<br>thinking   | <ul> <li>creating a step by step solution to a problem</li> </ul>         |  |  |

#### SEARCHING ALGORITHMS

To find an item in a list, computers need to use a searching algorithm. A linear search and binary search are both examples of sorting algorithms.

Linear Search: Checks each item in the list one by one
until it finds what it is looking for
+ Simple, list doesn't need to be ordered
- Not efficient, takes time with lots of data

**Binary Search:** Finds the middle item in an ordered list by doing (n+1)/2. IF the middle item is what it is searching for it stops. If not, it compares the item you are searching for to the middle item so that it knows whether to look in the first half or second half of the list. Then it repeats these steps until the item is found

- + More efficient than a linear search
- Only works on an ordered list, complex to program



#### SORTING ALGORITHMS

Sorting algorithms sort items into an ordered list.

Bubble Sort: Checks the first two items in a list, swaps them if they are in the wrong order and then moves onto the next two items and repeats the process. Once it has passed through the list once it goes through again until none of the items need swapping. + Simple. - Takes a long time

Merge Sort: Finds the middle item (n+1)/2 and splits the list in half. Repeats this step until the list is split into individual items (sub-lists). It them merges (joins) the sublists in pairs. Each time the sublists are paired they are sorted into the correct order. + Efficient - Slow

Insertion Sort: Looks at the second item in a list and compares it to the items that are in front of it, then inserts it into the right place. It then moves to the next item in the list and repeats these steps. + Quick for sorting small lists - slow with long lists

# Business

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#### **Business**

met.

Hartford hurch of England High School



| Busine  | SS  |  |  |  |   |
|---|---|--|--|--|---|
|   |   | Market Research  | ī <mark>l</mark>   | Market   | Maps  |
| imary market re   | search  | First hand research that is specific to businesses needs as they design and undertake it themselves.                           | Ben<br>• Easy to inter   | pefits   | Drawbacks     Doesn't consider external   |
| econdary market   | research  | Second hand research where a business uses research found from someone else.   | <ul> <li>Shows gaps in the market</li> <li>Can understand target<br/>market</li> <li>Gan be difficult if busine<br/>has multiple products</li> </ul>                         |  | <ul> <li>factors</li> <li>Can be difficult if business<br/>has multiple products</li> </ul> |
| ypes of primary r   | esearch   | Survey, questionnaire, focus group, observation  |  | · <u>·</u> ··································                  |   |
| ypes of secondar  | y research  | Internet, market reports, government reports.  | Customer Needs   |  |   |
| ualitative Resea  | rch   | research with lots of depth and opinion. It is gained through asking open questions.   | A customer need is what the customer wants from a specific<br>product or service. By ensuring customer needs are met, it<br>promotes business survival and increase in sales |  |   |
| antitative Research   |   | statistical research with quantifiable answers. This is gained through asking closed questions.                                | Price-   | The amount ch  | arged to purchase the   |
|   |   | Segmentation   | Quality-   | Ensuring the pr<br>purpose                                     | roduct is made well and is fit for  |
| Market Segment  | ation is splittin   | g up the mass market into different parts so businesses  | Choice-  | Allowing custo   | mers to choose from variety   |
| ocation<br>This is where a business v<br>which they are/live. |   | of a small group of people with the same wants and needs.<br>a business will target customers based on the area in<br>re/live. | Convenience-   | Allowing custor<br>quickly and effi                            | mers to purchase a product iciently   |
| Demographics  | Targeting a group of the population who have similar characteristics  |  |  | Com  | petition  |
| Age   | Meeting the needs of customers within a specific age group For example Children's toys  |  | <b>Competitive ma</b><br>the same or sim   | <b>irket</b> is where seven<br>ilar products/servi             | eral businesses operate, offering<br>ices.  |
| Lifestyle   | <b>yle</b> Targeting and meeting needs of customers who live in a particular way.<br>For example Vegans choose products through lifestyle choice. |  | Benefits of Cor  | mpetition  |   |
| Income  | Targeting customers based on how much they earn. For example shops who sell products at a lower price for people on a lower income.               |  | Promotes fa<br>meaning cu  | air prices as busine<br>stomers wont be<br>riety of choice for | esses will compete for sales,<br>overcharged.<br>customers to select from                   |
| By targeting a spe  | y targeting a specific group of people it ensures those needs are identified and successfully   |  | Ensures pro<br>quality and   | oducts are constan<br>reliability.                             | tly being updated to ensure   |



# Art - Nature

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During Half term 1 and 2 you will be exploring the theme of Nature. You need to show an understanding of the GCSE





**Photography** Photography is a form of Recording and should be used whenever possible to explore visual elements. Tone, Texture, Shape, Form, Viewpoints. **Techniques** – crop, filter, enlarge, zoom. Deliberate Practice – Take a series of photos of food, consider how you can apply the techniques above.







Drawing to research and record

**Deliberate Practice** – Produce a range of drawings in your sketchbook. Make some drawings from first hand observation and some from your photographs. Consider Tone, Form, Texture, Line, shape.

**Artist Research** 

Explore the work of artists who have used Nature and Natural forms as a source of inspiration. Creatively present your research in your sketchbook. Artists to consider Karl Blossfeldt Amira Gale Georgia O Keefe Marcia Baldwin Martin La Spina Ernst Haeckel Art styles to consider Art Nouveau Surrealism **Deliberate Practice** Produce a google slide on 2 of your favourite artists. You can choose from the list above or find your own.



**Key vocabulary** Organic, spiky, rough, texture, representational, flowing, irregular, shadow, recording, observed.



# Design Technology



# **Design Technology**



#### Objectives

- Know and understand how timbers and boards are selected and processed for commercial products
- Learn how materials are cut, shaped and formed to a tolerance
- Learn about the preparation and application of treatments and finishes to enhance functional and aesthetic properties

### Engineered wood

- · Manufactured or engineered wood has many advantages over solid wood
  - · May be mixed with glues to give greater strength and stability
  - Ideal for use in construction, industrial and domestic use
  - Efficient in its use of mixed materials and utilising waste wood
  - It can be made in a large sheets not limited by the diameter of a tree trunk

#### Commercial manufacturing Commercial routing

- Mass produced timber components are produced. using CNC machinery
  - · This enables large quantities of equalsized parts or products to be produced
  - · Templates can be saved and reused to help minimise waste
  - Screw holes, slots and patterns can be cut in one process
  - · What are the benefits to the manufacturer of minimising waste?
  - How could they dispose of the waste responsibly?

#### Mechanisation and automation

- · Automated machinery has changed the way industry manufactures timber based products
  - · Improvements in manufacturing methods have been embraced by designers
  - · Stringent quality control methods have increased consistency and accuracy
  - Increased availability of manufactured boards means products can be batch and mass produced
- · Discuss the differences between 'mechanisation' and 'automation'

# Surface treatments and finishesWood preservation

- Wood can be protected and visually enhanced using: Treating timber can help extend its life for decades
  - Preservative
  - Wax
  - Oil
  - Paint
  - Stain
  - Varnish
- Finishes can be applied by brushing, rubbing or spraying

- CNC machinery can cut, drill, shape, mill and profile manufactured or natural timbers
  - · Screw holes, slots and patterns can all be cut in one process
  - Machines can accommodate big sheets of material
  - Machines work guickly and efficiently enabling a product to get to market swiftly
  - · What other advantages does CNC routing offer over hand cutting?

#### Quality Control – 'QC'

 The process where products are checked to ensure they meet the design specification

They should also:

function correctly

#### Flat-pack furniture

- Manufactured boards are well suited to self-assembly products
  - They are generally less expensive than hand-made items
  - Arrives boxed making it easier to store and transport
  - Relatively straightforward to assemble with a basic tool kit
  - What properties of manufactured board make it suitable for flat-pack products?
  - Why do you think it may be less aesthetically appealing?

#### **Commercial turning**

- CNC wood lathes produce cylindrical components
  - Once programmed they are very effective at producing complex shapes and spirals
  - Ideal for repeat production
  - Lathes can accept large and long pieces of material
  - What disadvantages would the introduction of CNC machinery present to a skilled workforce?

#### Tolerance

- The total amount a specific dimension or property is permitted to vary
  - · This can apply to hole depth, length, angle, thickness, weight and elasticity
- A gauge can be inserted into a gap or hole to check if the sizes fall within tolerance
- · If parts do not fit within the specified tolerances they are discarded or recycled

### **Environmental impacts**

- Traditional paints and finishes can have harmful effects on the environment
  - · Oil or solvent based products offer long lasting finishes, but contain high levels of VOCs - Volatile Organic Compounds
  - Water based products are kinder to the environment
  - Paint can be made from recycled latex and even milk



meet set size tolerances

· Tanalising is the process in which timber is

Hydraulic pressure forces the treatment deep into the timber







immersed in a preservative

Helps delay the rotting process

Protects against insect and fungal attack



# Engineering Design



# **Engineering Design**



Key Words:

#### **R107: OCR Engineering design** Designing and developing Ideas





### **Engineering Design**









The most common keys in Delta blues guitar are **E major and A major**, which are both easily accessible in standard guitar tuning. Typically though, open guitar tunings are utilized, because they make slide guitar playing easier to execute.

Rhythm: not what it seems as the rhythm is swung.

**Timbre:** The blues has a distinct **melancholic** tone, which is achieved through vocal techniques such as **melisma**, rhythmic techniques such as syncopation, and instrumental techniques such as "choking" guitar strings on the neck or applying a metal slide to the guitar strings to create a whining voicelike sound.



Structure of lyrics – usually solo voice

Look it you darling, what do you want me to do Look it ya darling, what do you want me to do I've done all I could honey Just don't get along with you

Now look it here baby, please don't dog me round Look it here honey, please don't you dog me round Mm I'm going to leave south end of town

MELODY: Use of melodic phrases on the guitar to respond to the voice in an improvised calland-response pattern, and a reliance on vamps. Melody is improvised around the chords. Improvised notes: 1, flattened third, fourth, fifth, flattened 7<sup>th</sup> (pentatonic scale)



# Music - Component One Rockn' Roll

# Harmony/structure – recognise this?

| I  |    | Ι | Ι    |
|----|----|---|------|
| IV | IV | I | I    |
| V  | IV | I | V    |
|    |    |   | Or I |

Bass: each note of the chord is played separately to create a **walking bass** 



Melody: short phrases, instrumental improvisation around pentatonic scale



Structure also strophic: Intro, verse, chorus, bridge, verse, chorus, outro.

v. Ets and D. J. Jailbouse Rock sessions. May 1937

Recorded on magnetic tape recorders most likely three tracks at a time. Distance from the mic was very important to achieve balance.

Horn stabs – whilst all parts play a shuffle groove the saxophones play staccato stabs to emphasise the rhythm



# Instrumentation



Sometimes saxophone too





Tonality: can be major or minor

# Harmonies:

- Major
- Minor
- Suspended 4<sup>th</sup>
- Inverted chord

Texture: melodic line accompanied by instruments within the band. Accompaniment is mainly chordal (homophonic)

**Guitar:** Acoustic/electric played rhythm (chords) and lead (riffs) with effects such as distortion/overdrive, palm muting, hammer ons, pitch bending. Vocals: usually a solo voice, catchy lyrics, harmonies in chorus. Lyrics usually in 1<sup>st</sup> person and used regional accents Drum Kit: Played a strong 4/4 rhythm. Lots of fills and sometimes a drum solo. **Bass Guitar** Electric bass guitar, usually played the **root note** of the chord using interesting rhythms.

**Piano/Keyboard:** Would play **chords/ rhythms**. Sometimes **riffs**. Sometimes played the introduction

of the song.



| I |
|---|
|   |
|   |
|   |
|   |
|   |
|   |
|   |
|   |

Awight geeza Britpop is common for memorable guitar riffs and iconic hooks



\*



# **Sport - Btec Sport Component 1**

#### COMPONENTS OF FITNESS

- AGILITY To change direction quickly with control.
- BALANCE Maintaining centre of gravity over a base of support.
- CO-ORDINATION Flow of movements to perform motor task effectively.
- REACTION TIME Responding to stimulus and initiation of response.
- AEROBIC ENDURANCE Cardio-respiratory system working for long periods of time supplying oxygen and nutrients to working muscles.
- MUSCULAR ENDURANCE Muscle is able to contract over periods of time against a light to moderate exercise rate.
- FLEXIBILITY The range of motion around a joint.
- SPEED Distance divided by the time taken
- MUSCULAR STRENGTH Maximum force that can be generated by a muscle or muscle group.
- BODY COMPOSITION Ratio of fat mass in the body compared to the % of fat free mass

found as muscle.

#### **EXERCISE INTENSITY**

#### Heart rate max

- Measure heart rate by measuring beats per minute.
- Max Heart Rate is calculate 220 AGE
- Then work out 60% and 80% threshold and apply the recommended training zones to the athletes.



| Example   | EFFORT          | EFFECT                          |
|---|-----------------|---------------------------------|
| A 30 year old's<br>MHR =<br>220-30 = 190.       | MAXIMUM 35-100% | Speed training zone             |
| 60% of 190 = 114                                | HARD 4          |                                 |
| Therefore, to be in<br>the recommended          | MODERATE        | Aerobic training zone           |
| cardiovascular health<br>and fitness, a 30-year | VERY LIGHT      | Limited improvements in fitnes: |

#### PRINCIPLES OF TRAINING

All training programmes should be:

- SPECIFIC To the individual and the sport they take part in.
- PROGRESSIVE Training should be increased at steady rate.
- OVERLOAD The body should be made to work harder than usual (F.I.T.T).
- **REVERSIBILITY** Although rest is important, resting for too long will cause the body to lose its fitness levels.
- Our training programme must also be varied to avoid TEDIUM or boredom. By using a variety of different training methods we ill keep out enthusiasm and motivation.

#### The FITT Principle

F – FREQUENCY How regularly/ how many times a week

I – INTENSITY How hard you train.

T – TIME How long each session must be in order to benefit



T - TYPE What sort of training you do?

#### THE BORG SCALE

- Rate of Perceived Exertion, ranges from 6 to 20.
- Athletes choose a stage in which they feel they are working at. To work out HR multiply by 10.

| Rating of Perceived Exertion<br>Borg RPE Scale |  |  |  |  |
|--|--|--|--|--|
| 678910<br>11                                   | Very, very Ught<br>Very Ught<br>Fairly Ught      | How you feel when lying in bed or<br>skiting in a chair relaxed.<br>Little or no effort. |  |  |
| 12<br>13<br>14<br>15                           | Somewhat hard<br>Hand                            | Target: range: How you should feel<br>with exercise or activity.                         |  |  |
| 17<br>18<br>19<br>20                           | Very hard<br>Very, very hard<br>Maximum exertion | How you felt with the hardest work<br>you have ever done.<br>Don't work this hard!       |  |  |







# Tech Award Dance Component 1 - Ghost Dances



# Factfile

Choreographer; Christopher Bruce

Company; Various, including Rambert Dance Company First performance; 3 July 1981

Dance Style; A blend of contemporary (Graham-influenced) Choreographic style; Thematic and episodic with narrative elements. Strong Characterisation.

Theme; Political oppression in Chile Starting point; The music and South American Rituals

Structure; Seven sections. Each characterised by a different piece of

music or song

Dancers; Five women and six men

Accompaniment; South American songs and folk tunes by Inti-illamani (arranged by Nicholas Mojsiejenko) and wind effects.

Costume; Belinda Scarlett

Ghosts wear wigs and rags and have skull-like masks and bodies painted to suggest bones and muscles. The Dead wear gender-specific, everyday clothes suggesting different walks of life, each wears a unique costume.

Lighting- Nick Chelton

Gloomy and shadowy, side lighting highlights the ghosts. Brighter for folk-type dances performed by the dead. Light changes signify deaths. **Set** – Christopher Bruce

The painted backdrop represents a rocky plain and a cave opening. In the distance there is water and mountains. There are rock-like structures on stage.

Staging - Proscenium

# Meet the choreographer

Christopher Bruce was born on the 3<sup>rd</sup> October 1945 in Leicestershire. He is a famous British performer and choreographer. He was Artistic Director of the <u>Rambert Dance</u> <u>Company</u> until 2002.

Bruce was appointed a CBE for a lifetime's service to dance because he was one of Britain's leading choreographers

Bruce often creates an impressive work by mixing the modern dance and classical ballet

in his performance



'I want people to be moved and feel something for these people. They may not be able to do much, but public opinion in the end means something, and that is

a way that I, as an artist, can do my bit for humanity' Christopher Bruce https://www.rambert.org.uk/explore/news-and-blog/news/story-i-wanted-tell-christopher-bruceghost-dances/ He often used popular music as the background of his performance. He chose Rolling Stones and Bob Dylan

There are various productions that Bruce made. Those included 'Rooster' (1991), 'Swansong' (1987), 'Ghost Dances' (1981), 'Cruel Garden' (1977), Sergeant Early's Dream, and Moonshine.

# What's it about?

GHOST DANCES IS A WORK THAT – AS MUCH AS ANY ARTISTIC CREATION CAN – ACHIEVES THE REMARKABLE AND TENDER-HEARTED FEAT OF GIVING A VOICE TO THE DEAD.

MADE BY <u>CHRISTOPHER BRUCE</u> FOR RAMBERT IN 1981, IT WAS INSPIRED BY BRUCE'S MEETING WITH DANCER JOAN JARA, WHOSE TEACHER HUSBAND VICTOR WAS ONE OF THE 35,000 CHILEANS MURDERED BY <u>PINOCHET</u> AFTER HIS 1973 COUP.

THE BRITISH CHOREOGRAPHER WANTED IT TO SPEAK FOR THE BLOODILY PURGED OF ALL COUNTRIES, WHILE ALSO WEAVING IN PLENTY OF SPECIFICALLY LATIN AMERICAN IMAGERY, IN PARTICULAR, THE RITUALS AND COSTUMES ASSOCIATED WITH THE DAY OF THE DEAD.

# **Purpose of Ghost Dances**

| Do you think the purpose is | Yes/No | Explain your view   |
|-----------------------------|--------|---|
| To educate                  | Yes    | It shows the audience how different cultures celebrate dance.   |
| To Inform                   | Yes    | It informs people that many people are dying every<br>day and for people to make the most of their lives.<br>Also the oppression which occurred in Chillan towns. |
| To entertain                | Yes    | The dance pieces have been created to entertain their<br>audience. It may not always be joyful to watch but<br>they are still being entertained by the dancers.   |
| To challenge viewpoints     | Yes    | We get to see life from the villagers view point and death from the ghosts viewpoint  |
| To raise awareness          | Yes    | To raise awareness that death is always waiting for us.<br>And to show that political oppression was a huge part<br>of life in Chile.                             |
| To Celebrate                | Yes    | To celebrate life and making the most of it. And to celebrate death.  |

became a resident choreograph er for Houston Ballet.

In 1989, he





#### **Bruce Style Bruce choreographic Bruce Inspiration** Stemming from his own training, Christopher Bruce's signature movement approach style is grounded in modern dance techniques with a combination of Instruments included: South classical and contemporary dance language termed "neo-classical". A range of Movement Marimba, pan flute, Dramatic **American Folk** Bruce does not prepare movement before entering the studio, preferring to percussion, Recp-reco, themes linked styles; must be wait and work with the dancers so that he can be influenced by them. For Music bombo leguero and siku to the human contemporary, appropriate Bruce, as well as being appropriate to the piece, the movement must also sit to the piece condition ballet, folk, well on the dancers. Joan was a widow. Her popular dance. and dancers (political or husband was a musician social) Bruce's choreography reflects a range of styles: ballet, contemporary, folk and and a composer called A number of popular dance. He deals with themes linked to the human condition, political or Meeting with Victor. He was tortured and Christopher **Human rights** his early social issues and tends to portray them through dramatic, emotive and killed by Pinochet's forces. themes have Bruce's works were Joan Jara theatrical elements. This meeting led him to provided him signature performed choreograph Ghost Dances. with a good movement style without source of is grounded in accompanime Ghost Dances was created for Ballet Rambert (as Rambert Dance Company was Christopher Bruce based inspiration modern dance nt or had then known) and first performed on 3rd July 1981 at the Bristol Theatre Royal many of his dances around techniques with music added (Old Vic). It remained in the Company's repertoire for four consecutive seasons human rights. He based a combination after they and was revived by Rambert on 24th June 1999 at the Theatre Royal, Norwich. **Human Rights** Ghost Dances on the of classical and were It was nominated for the 1982 Society of West End Theatre Awards as the oppression in Chile. contemporary choreographe Outstanding Achievement of the Year in Ballet. It has also been performed by dance language d Nederlands Dans Theater, Australian Dance Theatre, Cullberg Ballet, Zurich Day of the dead is Ballet, Ballet Gulbenkian, Houston Ballet and Ballet du Grand Thèâtre de His personal Most of his Most american holiday. It brings Genève. range of stimuli productions performance together family and friends have an is extensive s are to pray for and remember Day of the Dead Ghost Dances is a one-act dance work in which three skeletal Ghost Dancers including a wide underlying deliberately loved ones that have and Ritual await a group of Dead who will re-enact moments from their lives before range of emotional open to a passed away. This holiday passing on. literature and content. range of Masks was an inspiration for music. interpretation Christopher Bruce. The I made this ballet for the innocent people of South America, who from the time s rather than skulls the dancers wear are of the Spanish Conquests have been continuously devastated by political having a based on the sugar skulls in oppression. I would like to give my thanks to Joan Jara for all her help and to fixed storythe day of the dead. Inti-Illimani for the inspiration of their performances. CHRISTOPHER BRUCE line https://www.rambert.org.uk/wp-content/uploads/2015/08/Ghost-Dances-Study-Notes-1.pdf

# Child Development



# **Child Development Tech Award**

**LAA-** Understand the difference between growth and development



# Links between areas of development

| Communication and language<br>development   |         | Physical de   | velopment  |  |  |
|---|---------|---|--|--|--|
| POSITIVE IMPACT   |         | POSITIVE IMPACT   | POSITIVE IMPACT  |  |  |
| <b>Intellectual development</b><br>Knowing the words for things can help children to<br>understand new concepts and remember more.<br>They can begin to identify more and make sense of<br>how things work.   | f       | <ul> <li><u>Intellectual development</u></li> <li>Range of movements = see and explore new things.</li> <li>Learn more as can get around, hold and explore objects.</li> </ul>  | Emotional development<br>More independent<br>Explore new areas, try new skills = confidence and<br>a higher self-esteem.<br>Prevent frustration.   |  |  |
| POSITIVE IMPACT   |         | POSITIVE IMPACT   | Key Question<br>Can you think of any other examples of how<br><u>physical development</u> or <u>communication &amp; language</u><br><u>development</u> may affect other areas of<br>development?<br>Can you turn the positive impacts into negatives?  |  |  |
| <u>Social development</u><br>Language to play and make friends.<br><u>Interact more</u> be co-operative and kind<br>Communicate, their feelings and ideas.<br>Form friendships and relationships.   |         | <u>Social development</u><br>A child will be able to join in and play with others<br>if they are able to move around and join in the<br>activities, such as in the playground or even<br>playing with play-doh.   |  |  |  |
| NEGATIVE IMPACT   |         | NEGATIVE IMPACT   |  |  |  |
| Emotional development<br>Children with a language delay (have a slower<br>development in their language) are more likely to be<br>frustrated as they cannot express themselves<br>appropriately.<br>They cannot express how they feel and might find i<br>hard to play with others.<br>This can lead to them showing aggressive and<br>frustrated behaviours. | e<br>it | <u>Social development</u><br>Delayed physical development. A child may find<br>that they physically cannot keep up with other<br>children, they may <u>not</u> be able to join in with their<br>play such as climbing on the climbing frame,<br>playing games or different activities that use<br>gross and fine motor skills. Because they cannot<br>join in, they may <u>not</u> have the social skills to<br>develop friendships with other children (isolated). | Mini Case study<br>Laura is 3 years old, she has excellent<br>communication skills, she can easily communicate<br>her ideas in full sentences, interact with others<br>and asks questions if she does not understand.<br>What impact will Laura's high level of<br>communication skills have on her? What areas<br>of development does this link to? |  |  |



# **Child Development Tech Award**

**LAA-** Understand the difference between growth and development



# Links between areas of development

Intellectual development

#### NEGATIVE IMPACT

#### Communication and language development

Children learn from reading and listening to other people.
If Oliver cannot understand what the book is about or what other children are talking about this may lead to frustration, poor learning and his own communication skills may not develop further.

•It is through language that children express their thoughts and develop problem solving skills.

#### NEGATIVE IMPACT

#### Social development

•With limited cognitive skills Oliver may not be able to cope with his own feelings, he may become frustrated and he may not be able to think through his actions. This links to his emotional development.

•This can impact how he interacts with other people and how they respond to him. He may find it hard to build friendships and relationships.

#### POSITIVE IMPACT

#### <u>Social development</u>

Understand what others are saying = develop friendships. Develop important social skills . Understanding of others feelings. This also links to emotional development. **Emotional development** 

### POSITIVE IMPACT

#### Social development

Understanding and having feelings for others = friendships with others.

Manage her own feelings and emotions She can recognise other people's feelings = empathetic and sympathetic = better friendships.

#### NEGATIVE IMPACT

#### Social development

May <u>not</u> be able to understand other children's feelings = more <u>difficult</u> to make friends, accept or understand how others may be feeling If had a low self-esteem and low confidence = hard to make friends because she may feel she is not good enough. Could be shy and withdrawn.

#### POSITIVE IMPACT

#### Physical development

Confidence and high self-esteem = try out new skills
Helps physical development.

# Social development

### NEGATIVE IMPACT

#### Communication and language development

•Not wanting to spend time with other children, may affect his communication and language development.

Not be able to develop new vocabulary from his social interactions

### POSITIVE IMPACT

#### Emotional development

Being with other helps children to feel good about themselves and gives them enjoyment. This can raise their confidence and self-esteem. It also helps them to learn to express emotions appropriately.

Mini Case study Lucien is 4 years old. He is not very confident and prefers his parents to do things for him. When faced with new activities, he waits for an adult to come and help him. He is quite unsure of doing anything that is different.

- 1. Give an example of how Lucien's lack of confidence could be affecting his physical development
- 2. Explain how Lucien may be missing out on some aspects of cognitive development.

# Food Technology

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# Food Technology



| KS4 Y10 Food Knowledge Organiser HT1  |  |                                   | FAT-quick facts: Fats are called 'fats'         |  | s' 3 Types  | 3 Types of Carbohydrate:                                     |  |
|---|--|-----------------------------------|---|--|---|--|--|
|   |  |                                   | when they are solid at room                     |  | Monosaccharides   | Monosaccharides Disaccharides Polysaccharides                |  |
|   | If you are an a plant bacad dist all of the acceptial amine acide (AA) can still be gained   | through comothing                 | temperature. But                                | tats are called of   |   |  |  |
|   | called <i>'protein complementation'</i> . This is where two of more LBV foods are combined   | in one meal. In doing so          | when they are                                   | e líquid at room   |   |  |  |
| Protein   | all of the essential AA can be consumed. Example of protein complementation could in   | iclude:                           | temperature.                                    |  |   |  |  |
| complementat  |  |                                   |   |  |   |  |  |
| ion=  |  |                                   | Saturated fats tend to be                       | Unaturated fats  | Visible fats Invisib  | le fats Functions of   |  |
| I BV+I BV=H   |  | A Start                           | solid at room                                   | tend to be liquid at   |   | Carbohydrates in   |  |
|   |  | Constant of the                   | temperature                                     |  | ARMAIR -  | the body:  |  |
| BV  |  | Cardon and Cardon                 |   | Ĩ  | LARD  | Energy   |  |
|   |  |                                   |   |  |   |  |  |
|   |  |                                   |   | <u>~</u>   |   |  |  |
| What is protein?  |  | FATS – KEY WORDS &                | ГАТ   | <b>c</b>   |   |  |  |
| A macronutrient   | PROTEIN  | TERMS                             | FAL   | 3  | Ser .   |  |  |
| needed by all   | PROTEIN IS MADE UP OF ANNINO ACIDS (AA) :  | Fatty acids<br>Triglyceride       | Fat is a <b>macronutrient</b> that is needed by |  |   | <b>*</b>   |  |
| animals to survive  | THERE ARE 20 ANNINO ACIDS IN FOTAL:  | (fat molecule)                    | all animals.                                    | of fat in the  | RAW MEAT  | Pietere Fibre  |  |
| A VINE  | O OF THE 20 AAS ARE REFERRED TO AS   | Monounsaturated                   | body?   | is of lat in the   | B-33  | Dietary Fibre  |  |
|   | 'ESSENTIAL'  | (are healthy                      | 1. A store of e                                 | nergy  | BUTTOR  |  |  |
| A PORT  | ESSENTIAL AA ARE ONES THAT CANNOT BE MADE IN THE   | fats most commonly                | 2. To insulate the body                         |  | BUTTER  |  |  |
|   | BODY AND HAVE TO COME READY MADE FROM THE FOODS<br>WE EAT  |                                   | 3. Provides protective cushioning for the body  |  | PUTTED  |  |  |
|   |  |                                   |   |  | DUTTER  | BOTTER   |  |
| And the second se |  | mainly in sold fats               | 4. fat soluble vits: A,D,E & K                  |  |   |  |  |
| HBV=<br>High Biological   | <b>Examples of HBV</b> proteins include: milk (dairy), meat (including   | like butter)<br>Visible fats      | Too much fat:                                   | lead to obesity  |   |  |  |
| Value   | fish, chicken eggs etc.)   | (fat you can see on               | Linked to core                                  | onary heart disease C  | HD  | NEEDED BY ALL  |  |
| EASY FACT TO  |  | foods like raw meat)              | Too little fat:                                 |  | 50% of AMIANALS. IT is  |  |  |
| REMEMBER:<br>All forms of animal  |  | (fats you can't see in            | <ul> <li>Loss of weigh</li> </ul>               | it   |   | PLANTS DURING A  |  |
| protein is HBV, as they   |  | food, like cake or<br>biscuits)   | Get cold easil                                  | ly   | should  | PROCESS CALLED   |  |
| contain all of the  |  | biodunoy                          | Not receive e                                   | enough fat vits: ADEK  | come from   | Photosynthesis   |  |
|   |  | fann 9, 4 60                      | The sheet states                                |  |   |  |  |
| HDV (pla  | HBV exceptions: Although all animal proteins are HBV, there are a few  |                                   |   | The chemical structure of fats: CARBOHYDRATES – KEY WORDS & TERMS: |   |  |  |
| pia pia   | housed forms of protein that are also HBV. These include: so   | Dyd                               | <del></del>                                     | > : fatty acid 1   | monospectaridos & c   | (simple carbs); complex carbs;                               |  |
| Frank   | beans and quilloa  | the Barlingues                    | : glycerol                                      | + fatty acid 2   | nolysaccharides (complex  | x carbohydrates): dextrinisation                             |  |
| LBV=  | Examples of LBV proteins include: nuts, beans, lentils, seeds and cereal grains  | Functions of protein in the body: | ←   | + fatty acid 3   |   |  |  |
| Low Biological  |  | Growth                            | Essential fatty acids: There                    | are two fatty acids that   | Fat soluble Vitam   | ins: Water soluble   |  |
|   |  | Repair                            | come from the food we eat.                      | . These are referred to as   | "Yo <u>ADEK</u> ! You is  | well Vitamins:   |  |
|   |  | Energy                            | 'essential' fatty acids and an                  | e found in oily fish as we   | Il as fat mate!"  | B1 Inlamine: nervous system<br>B2 Riboflavin: energy release |  |
| Most forms of   | EFFECTS OF PROTEIN DEFFICIENCY: stunted growth – hair loss – vulnerability to infect   | ions – digestion problems         | plant and seed olls                             |  | VIT A: good eyesigi   | from food & repair of tissue                                 |  |
| plant protein LBV,  | PROTEIN - KEY WORDS & TERMS: macronutrient; HBV; LBV; protein complementation  |                                   |   | teeth  | VII D: healthy bones & teeth       B3 Niacin: energy release from food, skin, nervous system         VIT E: healthy skin & B9 Folic Acid: growth, healthy |  |  |
| as they lack one  | amino acids  |                                   |   | VIT E: healthy sk  |   |  |  |
| or more of the  | Winerals are chemical elements that our bodies need I small amounts. They help in the surface was ded for a variate of the surface of the sur |                                   |   | eyes   | babies (work with B12 make blood)   |  |  |
| essential amino   | in our body and are needed for a variety of reasons: CALCIUM= strong bones & teeth; If   |                                   | 115-11  | VIT K: clots blood   | and B12 Cobalamin: nervous  |  |  |
| acids   | healthy bones and teeth; FLUORIDE= strengthens teeth, hardens tooth enamel & preve   | manager                           | and and and                                     | heals wounds   | system (works with B9)  |  |  |
|   | needed in very small amounts (trace elements) to help make some of the body's hormones   |                                   |   | Contraction of   | 14/11   | against infection & allergies                                |  |