



All Saints'
Academy
Cheltenham

Year 11

Cycle 2

Curriculum Organiser

Name : _____

Tutor : _____

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All Saints' Academy Home School Agreement – 2024/25

All Saints' Academy recognises that the successful development of its students depends on an effective partnership of the Academy, students and parents/carers.

All three parties share responsibility for the development and achievement of each student. Together we commit ourselves to the following:

The Academy will:	Parents/Carers will:	Students will:
<ul style="list-style-type: none"> • Provide a learning environment that is stimulating, safe and caring. • Treat everyone with respect. • Ensure that each student has the opportunities, support and guidance to achieve their full potential. • Report regularly on each student's progress. • Expect high standards, set clear rules, promote mutual respect and develop a sense of responsibility. • Keep parents informed about Academy matters, be welcoming to enquiries and responsive to concerns. • Set homework in line with the published timetable, and give feedback on tasks completed. • Record and reward good progress and performance. • Offer enrichment activities that will develop broader skills to prepare for life and the world of work. 	<ul style="list-style-type: none"> • Make sure their child attends in correct uniform, arrives on time and is properly equipped. • Encourage their child to work hard and support them in their homework. • Attend consultation evenings and discussions about their child's progress. • Support the Academy's policies and guidelines as published on the Academy website. • Allow their child to attend off-site visits during the day. • Agree to the sanctions system as set out in the Academy Ready to Learn Policy. • Ensure their child attends every day and that time out of school is not taken or requested, unless for an urgent reason. • Inform staff, if they have concerns about their child's progress, well-being or any other issues. • Encourage their child to participate in the enrichment opportunities offered by the Academy. 	<ul style="list-style-type: none"> • Be an ambassador for All Saints' Academy. • Work hard in class and at home to achieve their full potential. • Treat others as they would wish to be treated and live out the Academy values. • Attend the Academy in correct uniform, be on time and properly equipped. • Keep the Academy rules, behave responsibly and be polite to others in the Academy, and in the wider community. • Follow the Ready to Learn Policy, completing any sanctions set and striving to achieve rewards each week. • Understand that any misbehaviour in the community whether in uniform or not, will be treated as if the incident happened in the Academy. • Take part in enrichment activities offered by the Academy. • Care for the environment in and outside the Academy.

Signed by Form Tutor	Signed by Parent/Carer	Signed by Student

*'Where every member of our extended family realises their God-given potential, inspired by John 10:10.
Jesus said 'I have come so you may have life in all its fullness'*

Independent homework timetable

Subject	Week 1 day	Week 2 day
English		
Maths		
Biology		
Chemistry		
Physics		
RE		
Option subject 1:		
Option subject 2:		
Option subject 3:		

Why study?

All students study because they value opportunities to learn and improve.

All students understand that in order to make excellent progress towards bright futures, they need to take responsibility for their own success and study at home as well as at the Academy.

We want you to have the very best opportunities available to you when you leave the Academy. Achieving excellent exam results in Year 11 and Year 13 is one way to help you to do that.

To gain excellent exam results in Year 11 and Year 13, you need to work hard in school every single lesson, every day in Year 7, 8, 9, 10 and 11. If you are in the Academy every day for 5 years you will have 4,750 hours of study time.

We want to make it as easy as possible for you to complete your study away from the Academy. Completing one hour of study per evening at home adds up to an extra 950 hours over your five years with us – which is like having an extra year of learning.

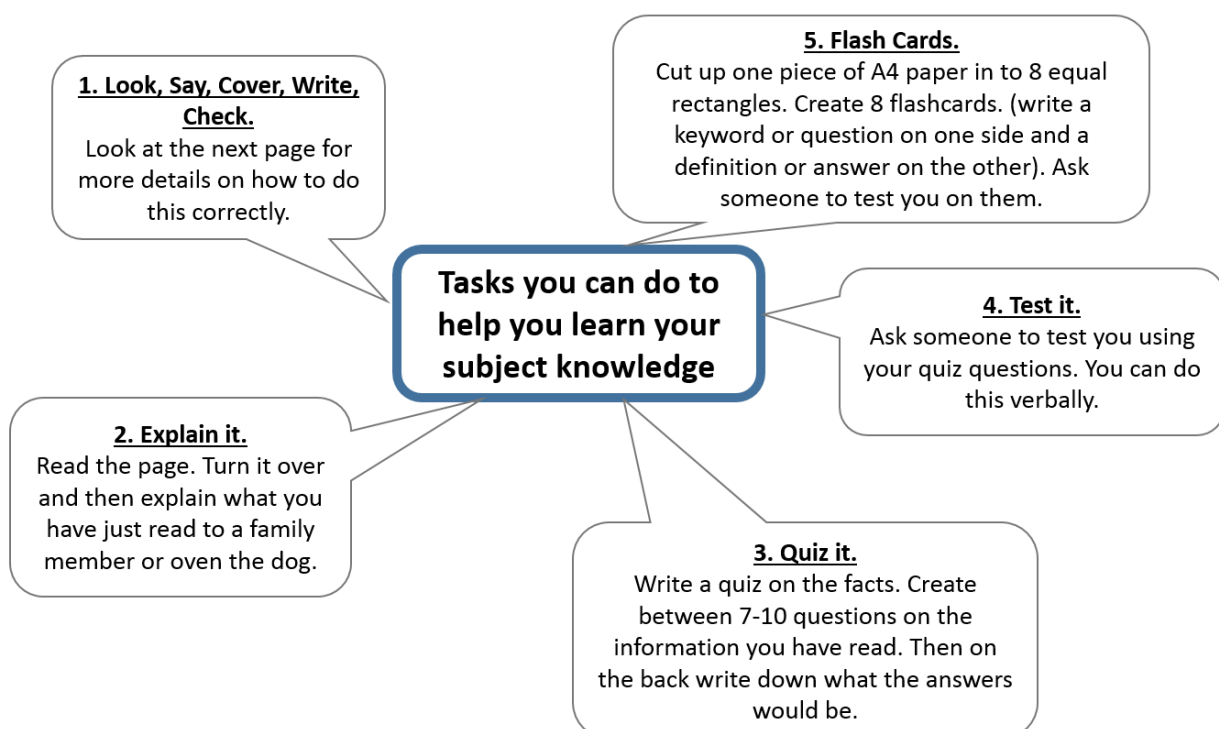
When and what should I study?

You should complete your Independent homework timetable on page 3, so that you know when to study.

Year 7, 8 and 9 should be completing one hour of homework each evening.

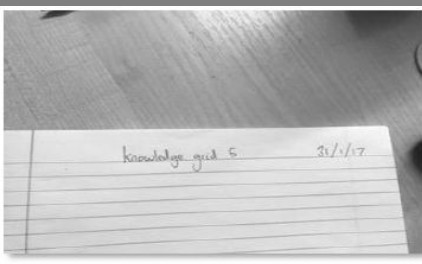
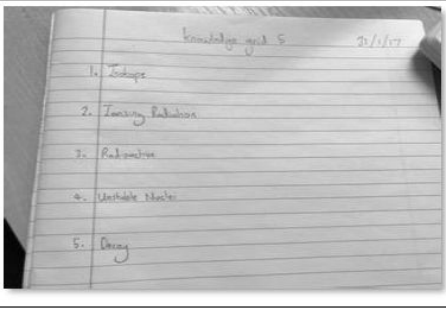


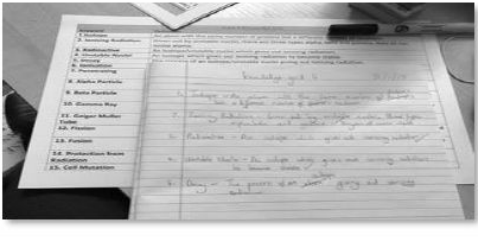
Year 10 and 11 should be completing two hours of homework each evening.

How should I use my Curriculum Organiser to study?



How should I use my Curriculum Organiser to study?

Look, Say, Cover, Write, Check

Step 1		1) Write the date and the title from the knowledge organiser. Underline them.
Step 2		2) Write out the keywords you have been asked to learn, leaving two lines between each word.
Step 3		3) Cover the definitions apart from the first: read it, cover it, say it in your head, check it until you are confident with it. Repeat this process with the other words and take your time.
Step 4		4) Cover up each definition in turn and write them out from memory. Avoid cheating as you need to know how much you can remember. Don't expect yourself to get it exactly right first time.
Step 5		5) Correct your answers in green pen. Repeat the process.



SPAG: Spelling, Punctuation and Grammar

Punctuation

Sentence demarcation:

Symbol	Name	Use
A, N	Capital letters	To start a sentence.
.	Full stop	To show a point/ idea is finished.
!	Exclamation mark	To illustrate heightened emotions, either positive or negative
?	Question mark	To illustrate a question is being asked.
...	Ellipsis	To build tension at the end of sentence or to leave a sentence unfinished for effect.

In sentence punctuation:

Symbol	Name	Use
,	Comma	Following an adverb or connective which starts a sentence or to join a subordinate and main clause together.
“ ”	Speech marks	To indicate the start and end of direct speech.
()	Brackets	To put additional information into a sentence.
'	Apostrophe	To show a contraction (joining of two words) or omission (taking out of a letter).

Ambitious punctuation:

Symbol	Name	Use
:	Colon	To show the start of a list or to show important information.
;	Semi colon	To separate long items in a list or to join to simple sentences that are linked by meaning.

Grammar rules

Sentence construction:

All sentences need a subject, verb and an object.

Tense:

Past- Was/ Were
Present- Is/Am
Future- Will

Singular and Plural:

I was...
We/ they were....

Capital Letter Rules:

Start to a sentence.
Proper nouns.
Titles of books, films etc.
Days of the week.
Months of the year.
Religious deities.
I/ I'm/ I'd/ I've.
Historical periods/events.

Homophones

Their- belonging to them.

There- a position or place.

They're- contraction for they are.

Witch- a person with magic powers.

Which- a question word.

Were- past tense of was.

We're- contraction for we are.

Its- belonging to something.

It's- contraction for it is.

Toe- a part of the body.

Tow- to pull something along.

Hole- a hollow place in a solid body.

Whole- all of something.

English KS4 Curriculum 2024-2025

	Year 10			Year 11		
	Knowledge and skills	Cross Curricular	Enrichment	Knowledge and skills	Cross Curricular	Enrichment
Cycle 1	<p>Literature Paper 1-Macbeth Read and explore key characters and themes.</p> <p>Language Paper 2-Transactional Writing GAPS and key features of different written genres. SPAG skills.</p> <p>Assessments: Mid-Cycle: Macbeth- Theme of Ambition End: Transactional Writing- article and letter</p> <p>Careers- Stage manager/Director/ Actor/Speech writer/Journalist/ Marketing.</p>	<p>RE: Great Chain of Being and Christian beliefs.</p> <p>History: essay writing skills</p>	RSC live showings	<p>Literature Paper 2 Play: An Inspector Calls or Blood Brothers Read and explore key characters and themes.</p> <p>Unseen poetry Analysis skills</p> <p>Assessments: Mid-Cycle: AIC- Theme of Responsibility Blood Brothers- Theme of secrets and lies End: Mock Exams</p> <p>Careers- Self-employed person/ Councillor/ shop worker.</p>	<p>Geo and Business: Economic world- links to economic ideas presented in the texts.</p> <p>History: similar time period</p>	Theatre trip
Cycle 2	<p>Language Paper 1- Creative Writing SPAG skills, story styles and forms.</p> <p>Literature Paper 1-Poetry Anthology Read and explore key themes and contextual information.</p> <p>Assessments: Mid-Cycle: Creative Writing End: Theme of Nature</p> <p>Careers- Author/ Poet/English teacher/ Editor/ Librarian.</p>	<p>Geography: The Living World and Nature poetry.</p> <p>History- poetry context.</p>	<p>Book club Carnegie shadowing Creative Writing competitions</p>	<p>Revision and Consolidation All sections of Literature and Language revisited and revised as appropriate for specific classes.</p>		Book club Carnegie shadowing
Cycle 3	<p>Literature Paper 2-A Christmas Carol Read and explore key characters and themes. Understanding of historical context.</p> <p>Language Papers 1 and 2- Reading skills Retrieval, analysis, evaluation, synthesis, and comparison.</p> <p>Assessments: Mid-Cycle: Theme of Redemption End: Paper 2 Language reading section</p> <p>Careers- Historian/ Charity worker.</p>	<p>Extended writing skills: History MFL</p>		<p>Revision/ Exams All sections of Literature and Language revisited and revised as appropriate for specific classes.</p>		



Year 11 – Cycle 2 – English Literature – A Christmas Carol		
Characters	Key Quotations	Themes
<p>Ebenezer Scrooge- A miserable, selfish old man who hates Christmas. After a visit from four ghosts, changes.</p> <p>Fred- Scrooge's nephew of his late sister Fan. He is a cheerful, kind and forgiving.</p> <p>Bob Cratchit- A poor, religious family man who works as a clerk for Scrooge. He is treated poorly and not given fair pay. He loves him family and represents the poor.</p> <p>Tiny Tim- Bob's youngest son. He is ill and walks with a crutch. He has a positive outlook on life and is grateful.</p> <p>The Ghost of Christmas Past</p> <p>-The first ghost after Jacob, it shows Scrooge a range of Christmases from his past.</p> <p>The Ghost of Christmas Present- The second ghost Scrooge who shows him a range of people, including the Cratchits celebrating Christmas.</p> <p>The Ghost of Christmas Yet to Come- The final ghost Scrooge sees who shows him the future that will occur if Scrooge doesn't change his ways.</p>	<p>Stave 1</p> <p>'Marley was dead; to begin with'</p> <p>'Are there no prisons? Are there no workhouses?'</p> <p>'Humbug!'</p> <p>'As solitary as an oyster.'</p> <p>'A tight fisted hand at the grindstone'</p> <p>'A squeezing, wrenching, grasping, scraping, clutching, covetous, old sinner!'</p> <p>Stave 2</p> <p>'A solitary child neglected by his friends.'</p> <p>'Another idol has displaced me.'</p> <p>'It was a strange figure- like a child: yet not so like a child as like an old man'</p> <p>'There was a boy singing a Christmas carol at my door last night. I should like to have given him something: that's all'</p> <p>'He has the power to render us happy or unhappy; to make our service light or burdensome; a pleasure or a toil'</p> <p>Stave 3</p> <p>'There never was such a goose!'</p> <p>'This boy is ignorance, this girl is want.'</p> <p>'Then up rose Mrs Cratchit, Cratchit's wife, brave in ribbons'</p> <p>'Dressed out but poorly in a twice turned gown'</p> <p>'What then if he be like to die he had better do it and decrease the surplus population'</p> <p>Stave 4</p> <p>'The phantom slowly, gravely, silently approached'</p> <p>'It's likely to be a cheap funeral.'</p> <p>'Quiet, very quiet the noisy little Cratchits.'</p> <p>'I am not the man I was.'</p> <p>'I will honour Christmas in my heart and try to keep it all the year'</p> <p>Stave 5</p> <p>'I'm as light as a feather, as happy as an angel, as merry as a school boy!'</p> <p>'Scrooge was better than his word.'</p> <p>'As so, as Tiny Tim observed, God Bless us every one!'</p>	<p>Family - Scrooge is rich but miserable and the Cratchits are poor but content as a family.</p> <p>The Christmas Spirit - Christmas is a time generosity and kindness. It is even powerful enough to transform Scrooge.</p> <p>Change/Redemption -Scrooge is redeemed by the end of novel and is a better person and others have better lives as a result of it.</p> <p>Social Responsibility - Highlights the lack of responsibility the rich felt for the poor and the differences between them.</p> <p>Social Class - The characters in different social classes are treated differently throughout the novel and the opportunities they have.</p> <p>Time and Place - Set in London but goes to different places and times with the ghosts.</p> <p>Poverty and Wealth - The poor are presented as characters we should be sympathetic with and the rich as ignorant and uncaring.</p>

English Literature Cycle 2 – Macbeth

Characters:	Key Quotations:	Themes:
<p>Macbeth – tragic hero. A brave and honourable soldier and thane who is tempted to commit regicide.</p> <p>Lady Macbeth – his wife. Hugely ambitious but unable to live with her actions.</p> <p>Banquo – Macbeth's friend who is destined to be head of a line of kings and so poses a threat to Macbeth.</p> <p>King Duncan – the king of Scotland – but not for long.</p> <p>Malcolm – Duncan's eldest son and the true heir to the throne.</p> <p>Macduff – the Thane of Fife. He is the victim of Macbeth's tyranny. Not of woman born.</p> <p>Three Witches – supernatural beings who can see the future.</p>	<p>Act 1</p> <p>"Fair is foul and foul is fair" Witches (S1)</p> <p>"Brave Macbeth- well he deserves that name..." Captain (S2)</p> <p>"Stars hide your fires; let not light see my black and deep desires" Macbeth (S4)</p> <p>"Yet I do fear thy nature – it is too full o' th' milk of human kindness." Lady M (S5)</p> <p>"...when you durst do it, then you were a man" - Lady M (S7)</p> <p>Act 2</p> <p>"A dagger of the mind, a false creation." Macbeth (S1)</p> <p>"Had he not resembled my father as he slept I'd ha' done it." Lady M (S2)</p> <p>"... if a man were porter of hell-gate..." Porter (S3)</p> <p>"Hours dreadful and things strange..." Old Man (S4)</p> <p>Act 3</p> <p>"Thou has it now... and I fear thou played most foully for it." Banquo (S1)</p> <p>"Our fears in Banquo stick deep" Macbeth (S1)</p> <p>"Oh full of scorpions is my mind dear wife" Macbeth (S2)</p> <p>"Fly, good Fleance, fly, fly, fly!" Banquo (S3)</p> <p>"It will have blood they say. Blood will have blood." Macbeth (S4)</p> <p>Act 4</p> <p>"By the pricking of my thumbs something wicked this way comes" Witches (S1)</p> <p>"He has kill'd me, mother." Son (S2)</p> <p>"Macbeth is ripe for the shaking" Malcolm (S3)</p> <p>Act 5</p> <p>"Out damned spot! Out I say!" Lady M (S1)</p> <p>"Make we our march towards Birnam." Lennox (S2)</p> <p>"Bring me no more reports, let them fly all." Macbeth (S3)</p> <p>"Out, out brief candle" Macbeth (S5)</p> <p>"Tyrant, show thy face!" Macduff (S7)</p> <p>"Macduff was from his mother's womb untimely ripped" Macduff (S8)</p> <p>"This dead butcher and his fiend like queen." Malcolm (S9)</p>	<p>Witchcraft/Supernatural A lack of scientific explanation led to people believing in witchcraft and the supernatural during Shakespeare's time.</p> <p>Ambition Macbeth's true downfall is his ambition. Lady Macbeth is as ambitious as her husband. Both Macbeths fail to see how their ambition makes them cross moral lines and lead to their downfall.</p> <p>Appearance and Reality In Macbeth things are never quite what they seem... Characters say one thing and mean something else. Wicked and violent acts such as murder are covered up or the blame is shifted.</p> <p>Loyalty and Betrayal Loyalty is important to many of the main characters. Banquo displays loyalty to Duncan and Macbeth betrays them both.</p> <p>Madness and Guilt Macbeth's guilt is focused on the murder as he expresses his remorse for killing Duncan. After that his guilt comes in the form of paranoia and this sends him on a frenzied murder spree. Guilt and madness come together.</p> <p>Sexuality and Gender Disruption of gender roles are presented through Lady Macbeth's usurpation of the dominant role in the Macbeth's marriage. Lady Macbeth is used to show that women can desire power as much as men.</p> <p>Power Lady Macbeth's power comes from her words through which she furthers her intentions. Macbeth's power comes from extreme brutality.</p> <p>Death and Violence Each act of violence and murder committed is a decline in Macbeth's soul leading him to further madness. Death is a symbol of his growing ambition.</p>

English Literature Cycle 2- An Inspector Calls		
<p>Characters:</p> <p>Arthur Birling- Represents the capitalist class that controls the wealth.</p> <p>Sybil Birling -Arthur's wife of a higher class. An unsympathetic woman who represents the bourgeoisie (female) upper class. More than any other character, she is adamant that she is blameless in Eva Smith's suicide.</p> <p>Eric Birling -Same age and of the same mind as his sister. He is adolescent in his manner ('half shy, half assertive', according to Priestly) and drinks too much, perhaps because he has not yet found a meaningful role in life.</p> <p>Sheila Birling -Early twenties, bright, lively and optimistic. Unlike her parents and fiancé, she expresses deep regret for her role in Eva Smith's suicide.</p> <p>Gerald Croft -Gerald Croft represents the aristocracy, the highest class of society, comprised of rich landowners and people who inherit their wealth from their parents. Engaged to Sheila.</p> <p>Inspector Goole -A mysterious figure. His name evokes the word 'ghoul', meaning evil spirit or phantom. He doesn't officially exist and appears to have supernatural powers of perception and persuasion.</p>	<p>Key Quotes:</p> <p>Act 1</p> <p>Birling: The way some of these cranks talk and write now, you'd think everybody has to look after everybody else, as if we were all mixed up together like bees in a hive – community and all that nonsense.</p> <p>Sheila: But these girls aren't cheap labour- they're people.</p> <p>Birling: Still, I can't accept any responsibility. If we were all responsible for everything that happened to everybody, we'd had anything to do with, it would be very awkward, wouldn't it?</p> <p>Inspector: They might. But after all it's better to ask for the earth than to take it.</p> <p>Act 2</p> <p>Inspector: (massively) Public men, Mr Birling, have responsibilities as well as privileges.</p> <p>Sheila: (rather wildly, with laugh) No, he's giving us the rope –so that we'll hang ourselves.</p> <p>Mrs B: I'm sorry she should have come to such a horrible end. But I accept no blame for it at all.</p> <p>Act 3</p> <p>Inspector: One Eva Smith has gone – but there are millions and millions and millions of Eva Smiths and John Smiths still left with us</p> <p>Mrs B: Really, from the way you children talk, you might be wanting to help him instead of us.</p> <p>Eric: (bursting out) You're beginning to pretend now that nothing's really happened at all. And I can't see it like that. This girl's still dead, isn't she?</p>	<p>Themes:</p> <p>Social Responsibility: The Inspector encourages the Birlings to be more aware of their society and understand that people need help from others. He represents Priestley's socialist views.</p> <p>Age: The older generation struggle to change when the Inspector is revealed as a fake but the younger ones do. Priestley believed it was the young in society that had the most influence.</p> <p>Gender: Males and females have very specific roles in the play that conform to the perceived social stereotypes of the time. Men have more power and influence, and the women are presented as <u>more shallow</u>.</p> <p>Class: Priestley shows the unfairness of the class divide and how it affects the Eva Smith. She is treated badly by the family because she is of a lower class.</p> <p>Power: The play has many different types of power from that of parents to societal and hierarchical power of the Inspector. The younger generation have the power to change but the lower class don't.</p> <p>Secrets and lies: <u>All</u> of the characters have secrets from each other. The characters lie to the Inspector and themselves and struggle to admit the truth even when it is made clear.</p> <p>Family: The Birlings show elements of good and bad family relationships. The Inspector highlights the distance between the Birlings and develops this further.</p>

English Literature Cycle 2- Blood Brothers		
Characters	Key Quotations:	Themes:
<p>Mrs Johnstone: Mother of the twins. Naive, loving and maternal, caring, rash, strong, generous, good, selfless, uneducated, superstitious, lively, zesty, trapped, victim, helplessness.</p> <p>Mrs Lyons: Edward's 'mother' after she gets him from Mrs Johnstone. Lonely, cold, wealthy, dependent, inconsiderate, pampered, self-centred, manipulative, over-protective, anxious, unreasonable, mad.</p> <p>Mickey: The twin kept by Mrs J. Friendly, excitable, adventurous, sneaky, cast-off, wants to impress, shy, determined, bright, witty, hard-working, ambitious, trapped, victim.</p> <p>Edward: The other twin, given away to Mrs Lyons. Friendly, generous, naïve, restricted, impulsive, lacks compassion, condescending, sneaky.</p> <p>Sammy: Micky's older brother. Aggressive, threatening, sarcastic, anti-social, criminal, hostile.</p> <p>Linda: Best friends with the boys and eventually Mickey's wife. Kind, compassionate, feisty, humorous, strong-willed, supportive, protective, poor, untrustworthy, desperate.</p> <p>Narrator: A constant reminder of what is happening on the stage and an unnerving presence suggesting the negative ending that befalls the brothers.</p>	<p>Act 1 As like each other as two new pins. Narrator I love the bones of every one of em. Mrs Johnstone Kids can't live on love alone. Mrs Johnstone If either twin learns that he was once a pair, they shall both immediately die. Mrs Lyons You know the devil's got your number. Narrator I will always defend my brother. Mickey & Edward Make sure he keeps with his own kind, Mr Lyons. Policeman Oh bright new day. Mrs Johnstone Act 2 You've got to have an ending, if a start's been made. / No-one gets off without the price being paid. Narrator Everybody has secrets. Don't you have secrets? Edward, You have ruined me. Mrs Lyons You've not had much of a life with me, have y'? Mrs Johnstone It's just another sign of the times. Mr Lyons While no one was looking, I grew up. Mickey ...so I can be invisible. Mickey How come you got everything... An' I got nothin'? Mickey I could have been him! Mickey Suddenly, they kiss. (Edward and Linda) Stage directions And do blame superstition for what came to pass / Or could it be what we, the English, have come to know as class? Narrator</p>	<p>Nature versus Nurture How your environment affects your life chances. The boys continue to be drawn to each other despite being brought up in very different external environments.</p> <p>Violence Mickey is exposed to violence from a young age, in all the games they play and Sammy's obsession with guns. Sammy's violent tendencies lead to Mickey going to prison. Mickey resorts to violence at the end of the play.</p> <p>Growing Up Mrs Lyons and Mrs Johnstone react to the children growing up in different ways. Mickey realises that some people grow up faster than others because of their circumstances.</p> <p>Fate and Superstition Mrs Johnstone is always superstitious; Mrs Lyons becomes more superstitious as the play progresses. The brothers' fate is inevitable. Class: Russell shows the unfairness of the class divide and how it affects the two boys. Accents, vocabulary, costume, songs and their education all highlight the impact of the boys' class on their opportunities.</p> <p>Secrets and lies: Almost every character in Blood Brothers either keeps a secret or tells a lie. They are driving force behind the plot of the play as almost every key moment comes from a secret or a lie.</p>

English Language Cycle 2: Transactional Writing		
DAFORREST	Format	GAPS.
<p>D –direct address You are a highly valued member of this team.</p> <p>A- alliteration That was a perfect presentation.</p> <p>-anecdote When I was eleven...</p> <p>F- fact England is the birthplace of Shakespeare and The Beatles.</p> <p>O- opinion I personally believe that higher education should not be free.</p> <p>R- rhetorical question How could I be so stupid?</p> <p>R –repetition I think it is right that I should be able to make decisions about my own body. I think it is right that women be involved on my behalf in the policies and decisions that will affect my life. I think it is right that socially, I am afforded the same respect as men.</p> <p>E- emotive language The puppy has been abandoned by its owner.</p> <p>S- statistics Overall, 78% of companies had a pay gap in favour of men, 14% favoured women and the rest reported no difference.</p> <p>T- tripling it's great; it's brilliant; it's amazing!</p>	<p>You will be asked to write two of the following things: letter, speech, article, leaflet, review or report.</p> <p>Letter: Have an address in the top right of the page. Begin: Dear... End: Yours sincerely/ faithfully... Write in a formal tone.</p> <p>Speech: Start by introducing yourself or using a rhetorical question. Use verbs like 'speak' 'listen' or 'talk' to show it's meant to be said. Ensure an appropriate closing.</p> <p>Article: Include a headline. Use a lively style with a range of features. Your first paragraph should give an overview.</p> <p>Leaflet: Divide your ideas into sections with subheadings. Usually informative or persuasive - focus on the purpose.</p> <p>Review: Should be a balance of good and bad points. It needs to contain <u>personal opinion</u> as well as facts. You should come to a decision overall.</p> <p>Report: A formal, informative piece that is not written to anyone like a letter. It should be objective and will usually have titled problems and solutions.</p>	<p>Genre: What is it?</p> <p>Audience: Who is it aimed at?</p> <p>Purpose: What is its job?</p> <p>Style: How formal does it need to be?</p> <p>Purposes</p> <p>Inform- gives the reader key facts about a given subject.</p> <p>Argue- explain and defend your point of view on a given subject.</p> <p>Persuade- try to convince someone to do something that you want/ believe in.</p> <p>Evaluate- give a balanced response which comes to an overall conclusion.</p> <p>Stretch and Challenge Read an article and identify DAFORREST techniques. Write a review on a film that you have just seen.</p>


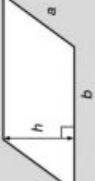
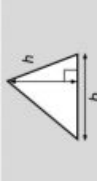

All Saints' Academy Mathematics KS4 Curriculum

Cycle	Year 10 Foundation	Year 10 Higher	Year 11	
	Knowledge & Skills	Knowledge & Skills	Foundation	Higher
1	<p>Algebra:</p> <ul style="list-style-type: none"> Laws of Indices Multiplying linear expressions Factorising Quadratic Expressions Changing the subject <p>Number:</p> <ul style="list-style-type: none"> Standard Form Error Intervals Compound Growth and Decay <p>Construction:</p> <ul style="list-style-type: none"> Perpendicular bisector of a line Angle bisector Shortest distance from point to a line <p>Proportion:</p> <ul style="list-style-type: none"> Simplifying ratios and sharing ratios Best buys 	<p>Algebra:</p> <ul style="list-style-type: none"> Laws of Indices Multiplying linear expressions Factorising Quadratic Expressions Changing the subject <p>Number:</p> <ul style="list-style-type: none"> Standard Form Indices and Surds Error Intervals Compound growth and decay <p>Geometry:</p> <ul style="list-style-type: none"> Pythagoras' Theorem and 3D shapes Fractional and negative enlargements Similar Shapes and Triangles Area and Volume Scale Factor <p>Construction:</p> <ul style="list-style-type: none"> Perpendicular bisector of a line Angle bisector Shortest distance from point to a line <p>Proportion:</p> <ul style="list-style-type: none"> Simplifying ratios and sharing ratios Best buys Connected Ratios 	<ul style="list-style-type: none"> Revision and preparation for mocks 	<p><u>Higher</u></p> <ul style="list-style-type: none"> Circle Theorems Quadratic Inequalities Sine and Cosine Rule Revision and preparation for mocks
Careers	<p>Quantity Surveyor</p> <p>Geometry:</p> <ul style="list-style-type: none"> Area of rectilinear shapes, triangles and circles Sector perimeter and area Area of compound shapes Surface Area and Volume of Prisms Pythagoras' Theorem 	<p>Meteorologist</p> <p>Geometry:</p> <ul style="list-style-type: none"> Spheres, pyramids, cones, frustums and composite solids Sector perimeter and area Area of compound shapes <p>Algebra:</p> <ul style="list-style-type: none"> Algebraic fractions Constant of proportionality 	<p>College options needing Mathematics</p> <p>Revision and preparation for mocks</p>	<p>University options with Mathematics</p>
2				


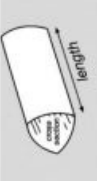

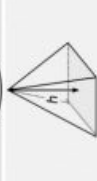
	<p>Algebra:</p> <ul style="list-style-type: none"> • nth term of linear sequences • Straight Line graphs • Simultaneous Equations <p>Data Handling:</p> <ul style="list-style-type: none"> • Scatter graphs and Line of Best Fit • averages from tables and grouped intervals 	<ul style="list-style-type: none"> • Straight line graphs • Linear and quadratic sequences • Simple Geometric progressions. • Linear inequalities and inequality regions • Simultaneous Equations – Linear, Quadratic and Circle Equations as one of the equations 	
Careers	CAD Technician	Acoustic Consultant	
3	<p>Probability:</p> <ul style="list-style-type: none"> • Product Rule for Counting • Two-way tables • Venn Diagrams • Tree Diagrams and Conditional Probability <p>Geometry:</p> <ul style="list-style-type: none"> • Angles in Polygons • Trigonometry <p>Algebra:</p> <ul style="list-style-type: none"> • Solving Quadratic Equations algebraically and from their graphs 	<p>Algebra:</p> <ul style="list-style-type: none"> • Quadratic, cubic, exponential and reciprocal graphs • Tangent to a circle • Completing the Square • Solving Quadratic Equations algebraically and from their graphs <p>Probability:</p> <ul style="list-style-type: none"> • Product Rule for Counting • Two-way tables • Venn Diagrams • Tree Diagrams and Conditional Probability <p>Geometry:</p> <ul style="list-style-type: none"> • Angles in Polygons • Trigonometry • Vectors <p>Statistics:</p> <ul style="list-style-type: none"> • Cumulative frequency graphs & box plots • Histograms. 	Revision and preparation for final examinations.
Careers	Sports Science and Analysis	Statistician	

GCSE Maths Formulae

Areas

Rectangle = $l \times w$	
Parallelogram = $b \times h$	
Triangle = $\frac{1}{2} b \times h$	
Trapezium = $\frac{1}{2} (a + b)h$	

Volumes

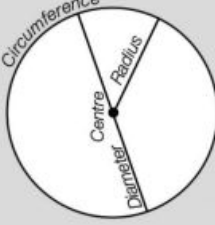
Cuboid = $l \times w \times h$	
Prism = area of cross section \times length	
Cylinder = $\pi r^2 h$	
Pyramid = $\frac{1}{3} \times$ area of base $\times h$	

Midpoint of two points

Between (x_1, y_1) and (x_2, y_2) the midpoint is:

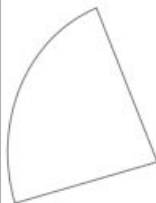
$$\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

Circles

Circumference = $\pi \times$ diameter, $C = \pi d$	
Circumference = $2 \times \pi \times$ radius, $C = 2\pi r$	
Area of a circle = $\pi \times$ radius squared, $A = \pi r^2$	

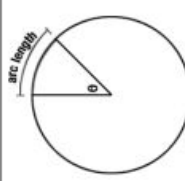
Area of a Sector

$$\frac{\text{angle}}{360} \times \pi \times \text{radius}^2$$



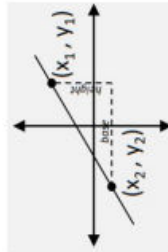
Arc Length

$$\frac{\text{angle}}{360} \times \pi \times \text{diameter}$$



Gradient of a Line

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$


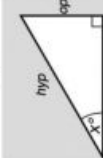


Compound Interest

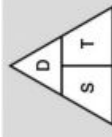

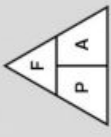
$$\text{starting amount} \times \left(1 \pm \frac{\text{rate of change}}{100} \right)^{\text{time}}$$

The \pm means:
+ for growth
- for decay

Pythagoras

Pythagoras' Theorem For a right-angled triangle, $a^2 + b^2 = c^2$	
Trigonometric ratios (new to F) $\sin x^\circ = \frac{\text{opp}}{\text{hyp}}$, $\cos x^\circ = \frac{\text{adj}}{\text{hyp}}$, $\tan x^\circ = \frac{\text{opp}}{\text{adj}}$	

Compound measures

Speed $\text{speed} = \frac{\text{distance}}{\text{time}}$	
Density $\text{density} = \frac{\text{mass}}{\text{volume}}$	
Pressure $\text{pressure} = \frac{\text{force}}{\text{area}}$	

Perpendicular Gradients

Flip & Swap

To find the perpendicular gradient, find the reciprocal, and switch signs.

$$m = -\frac{1}{m}$$

Quadratic equations

The Quadratic Equation

The solutions of $ax^2 + bx + c = 0$, where $a \neq 0$, are given by $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

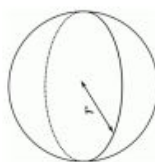
Median from a histogram

$$L + \frac{m - p}{f} \times w$$

L is the lower limit of the median class
m is the median point
p is the total frequency of the previous bars
f is the frequency of the median class
w is the class width of the median class

Volume of a Sphere

$$\frac{4}{3} \times \pi \times \text{radius}^3$$



Volume of a Prism

$$\text{Area of cross section} \times \text{length}$$

Probability

Where $P(A)$ is the probability of outcome A and
 $P(B)$ is the probability of outcome B:

$$P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$$

Constructing Pie Charts

The angle to draw for each sector is:

$$\text{Angle} = \frac{\text{frequency}}{\text{total}} \times 360^\circ$$

Stratified Sampling

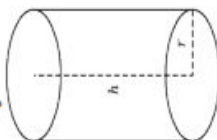
$$\frac{\text{frequency of group}}{\text{total}} \times \text{sample size}$$

Interior/Exterior Angles

$$\text{Exterior: } \frac{360}{n} \quad \text{Interior: } 180 - \text{exterior}$$

$$\text{Sum of interior: } (n - 2) \times 180$$

Curved Surface Area of a Cylinder



$$2 \times \pi \times \text{radius} \times \text{height}$$

Curved Surface Area of a Cone



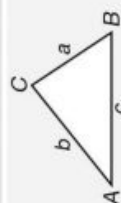
$$\text{Curved surface area of a cone} = \pi r l$$

Trigonometric formulae

$$\text{Sine Rule } \frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$\text{Cosine Rule } a^2 = b^2 + c^2 - 2bc \cos A$$

$$\text{Area of triangle} = \frac{1}{2} ab \sin C$$







Trigonometric Exact Values

	Sinθ	Cosθ	Tanθ
0°	0	1	0
30°	$\frac{1}{2}$	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{3}}{3}$
45°	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{2}}{2}$	1
60°	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	$\sqrt{3}$
90°	1	0	$\pm \infty$

Year 11 Maths Higher Knowledge Organiser

GCSE Maths Foundation Formula Sheet

Area of Rectangle = $l \times w$	
Area of Parallelogram = $b \times h$	
Area of Triangle = $\frac{1}{2} b \times h$	
Area of Trapezium = $\frac{1}{2} (a + b) \times h$	

Pythagoras

Pythagoras' Theorem

For a right-angled triangle,
 $a^2 + b^2 = c^2$



Trigonometric ratios (new to P)

$$\sin x = \frac{\text{opp}}{\text{hyp}}, \cos x = \frac{\text{adj}}{\text{hyp}}, \tan x = \frac{\text{opp}}{\text{adj}}$$



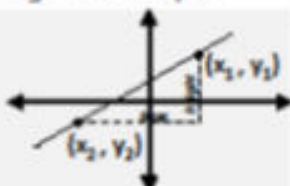
Equations of Straight Line Graphs

Gradient:

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

or

$$m = \frac{\text{height}}{\text{base}}$$



Equation of a Line
 $y = mx + c$

Midpoint of 2 points (x_1, y_1) and (x_2, y_2)

$$\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

Constructing Pie Charts

The angle to draw for each sector is

$$\text{Angle} = \frac{\text{frequency}}{\text{total}} \times 360^\circ$$

Compound Growth & Decay

The amount after n years (or days, etc.) is:

$$\text{starting amount} \times \left(1 \pm \frac{r}{100} \right)^n$$

where r is the rate of change.

The \pm means + for growth and - for decay

Circles

Circumference = $\pi \times \text{diameter}$, $C = \pi d$

Circumference = $2 \times \pi \times \text{radius}$, $C = 2\pi r$

Area of a circle = $\pi \times \text{radius squared}$, $A = \pi r^2$



Compound measures

Speed

$$\text{speed} = \frac{\text{distance}}{\text{time}}$$



Density

$$\text{density} = \frac{\text{mass}}{\text{volume}}$$



Volumes

Cuboid = $l \times w \times h$



Prism = area of cross section \times length



Cylinder = $\pi r^2 h$



Angles in Polygons

Sum of Interior Angles = $(n - 2) \times 180^\circ$

Where n is the number of sides of the shape

Exterior Angles add up to 360°

One exterior angle in a REGULAR polygon = $\frac{360^\circ}{n}$

Pairs of Interior and Exterior Angles add up to 180°

Head to the Corbett Maths website and use these videos to help you with revision for mocks.

Topic	Corbett Videos	Revised	Topic	Corbett Videos	Revised
Angle Facts	Video 35, 30, 34, 39		Volume of a Cylinder	Video 357	
Types of Angle	Video 38		Pythagoras	Video 257	
Angles in Parallel Lines	Video 25		Trigonometry	Videos 329, 330, 331	
Angles in a Triangle	Video 37		Exact Trig Values	Video 341	
Angles in a Quadrilateral	Video 33		Similar Shapes (sides)	Video 292	
Angles in Polygons	Video 32		Congruent Triangles	Video 67	
Bearings	Videos 26, 27		Volume of a Cuboid/Prism	Video 355, 356	
Scales & Maps	Video 283		Volume of a Sphere/Cone	Videos 359, 361	
Perimeter	Video 241		Surface Area	Video 310	
Area of Rectangles/Triangles	Videos 45, 49		Surface area of Sphere/Cone	Videos 313, 314	
Area of a Trapezium	Video 48		Vectors	Video 353a, 353	
Units	Videos 347, 349		Multiplication	Video 199, 200	
Sensible Estimates	Video 285		Division	Video 98	
Line Symmetry	Video 316		Addition	Video 6	
Rotational Symmetry	Video 317		Subtraction	Video 304	
Constructions	Videos 72, 78, 83		Rounding	Video 276, 277a, 277b, 278, 280	
Loci	Videos 75, 76, 77		Estimation	Video 215	
Faces, Edges, Vertices	Videos 5, 3		Order of Operations	Video 211	
Nets	Video 4		Ordering Decimals	Video 95	
Views and Elevations	Video 354		Arithmetic with Decimals	Videos 90, 91, 92, 93, 94	
Time Calculations	Video 322		Multiples and Factors	Videos 220, 216	
Timetables	Video 320		Prime Numbers	Video 225	
Distance Charts	Video 318		Square Numbers and Square Roots	Videos 226, 228	
Speed, Distance, Time	Video 299		Cube Numbers and Cube Roots	Videos 212, 214	
Travel Graphs	Video 171		Product of Primes	Video 223	
Density	Video 384		LCM/HCF	Videos 218, 219, 224	
Pressure	Video 385		Indices	Videos 172, 174	
Translations	Video 325, 326		Negative Indices	Video 175	
Reflections	Videos 272, 273		Standard Form	Video 300, 302, 303	
Rotations	Video 275		Fractions of Amounts	Video 137	
Enlargements	Videos 104, 105, 107		Adding Fractions	Video 133	
Parts of the Circle	Video 61		Multiplying Fractions	Video 142	
Circumference	Video 60, 243		Dividing Fractions	Video 134	
Area of a Circle	Video 59, 47		Reciprocals	Video 145	
Arc Length	Video 58		Fractions, Decimals, Percentages	Videos 121 to 129	
Area of a Sector	Video 46		Expressing as Fraction or %	Videos 136, 237	

Topic	Corbett Videos	Revised	Topic	Corbett Videos	Revised
Percentages of Amounts	Videos 234, 235, 238		Venn Diagrams	Video 380	
Percentage Change	Video 233		Tree Diagrams	Video 252	
Simple Interest	Video 236a		Reading Tables	Video 387	
Compound Interest	Video 236		Samples	Video 281a	
Reverse Percentages	Video 240		Coordinates	Video 84	
Ratio	Videos 269, 270, 271		Function Machine	Video 386	
Currency	Video 214a		Writing Expressions	Video 16	
Recipes	Video 256		Collecting Like Terms	Video 9	
Negative Numbers	Videos 205-209		Multiplying & Dividing Terms	Videos 18, 11	
Place Value	Video 222, 222a		Laws of Indices	Video 174	
Error Intervals	Video 377		Sequences	Videos 286, 287, 290, 287a	
Money	Video 400		Geometric Progressions	Video 375	
Best Buys	Video 210		The nth Term	Video 288	
Proportion	Videos 255a, 254		Expanding Brackets	Videos 13, 14	
Use of a Calculator	Video 352		Factorising	Video 117	
Tally Charts	Video 321		Factorising Quadratics	Videos 118, 120	
Frequency Trees	Video 376		Solving Equations	Video 110, 113, 266	
Two-way Tables	Video 319		Forming Equations	Videos 114, 115	
Pictograms	Videos 161, 162		Inequalities	Videos 177, 178, 179	
Bar Charts	Videos 147, 148		Conversion Graphs	Video 151	
Line Graphs	Video 160		Drawing Linear Graphs	Video 186	
Pie Charts	Video 163, 164		$y = mx + c$	Video 191	
Probability	Videos 245, 246, 248		Gradient	Video 189	
Relative Frequency	Video 248		Real Life Graphs	Video 171a	
Listing Outcomes	Video 253		Parallel graphs	Video 196	
Scatter Graphs	Videos 165 to 168		Substitution	Video 20	
Averages & Range	Videos 56, 50, 53, 57		Changing the Subject	Video 7	
Mode: Frequency Table	Video 56a		Simultaneous Equations	Videos 295, 297	
Median: Frequency Table	Video 51		Quadratic Graphs	Video 264	
Combined Mean	Video 53a		Cubic Graphs	Video 344	
Estimated Mean	Video 55		Reciprocal Graphs	Video 346	

KS4 Science Curriculum 2024-25

Year 10				Year 11		
	Knowledge and skills	Enrichment	Curriculum links	Knowledge and skills	Enrichment	Curriculum links
Cycle 1	<p>Topics – Cell Biology, Organisation, Atoms and the Periodic Table, Bonding, Matter, Energy</p> <p>Assessment: End of topic, small assessments throughout.</p> <p>Careers – Medicine, Chemical engineer, design engineer</p>	<p>'Street Science' for students to take part in at break and lunch.</p> <p>Science society, a club that takes part in events and competitions.</p>	<p>Maths – throughout all topics.</p> <p>PE – movement, circulation link to fitness</p> <p>DT – links to digestion and food groups.</p>	<p>Topics – Evolution, Ecology, Chemical Analysis, Chemistry of the Atmosphere, Using Resources, Waves, Magnetism, Space Physics.</p> <p>Assessment: End of topic, small assessments throughout. Mock Examinations.</p> <p>Careers – conservationist, sustainability officer, geologist, astrophysicist</p>	<p>'Street Science' for students to take part in experiments at break and lunch.</p>	<p>Maths – throughout all topics.</p> <p>Geography – links to sustainability.</p>
Cycle 2	<p>Topics – Infection and Response, Bioenergetics, Chemical Changes, Energy Changes, Radiation, Electricity</p> <p>Assessment: End of topic, small assessments throughout.</p> <p>Careers – Medicine, biologist, chemical engineer, electrician</p>	<p>'Street Science' for students to take part in at break and lunch.</p> <p>Science society, a club that takes part in events and competitions.</p>	<p>Maths – throughout all topics.</p> <p>Recognising patterns.</p>	<p>Topics – Revision of all topics, including targeted revision for student specific areas.</p> <p>Assessment: End of topic, small assessments throughout. Mock Examinations.</p>	<p>'Street Science' for students to take part in experiments at break and lunch.</p>	<p>Maths – throughout all topics.</p>
Cycle 3	<p>Topics – Homeostasis, Rates of Reaction, Organic Chemistry, Forces</p> <p>Assessment: End of topic, small assessments throughout. Mock Examinations.</p> <p>Careers – medicine, counsellor, chemical engineering, petrochemistry, design engineer</p>	<p>'Street Science' for students to take part in experiments at break and lunch.</p> <p>Trips to the Cheltenham Science Festival.</p>	<p>Maths – throughout all topics. Using equations.</p>	<p>Topics – Revision of all topics, including targeted revision for student specific areas.</p> <p>Assessment: End of topic, small assessments throughout. Mock Examinations.</p>	<p>'Street Science' for students to take part in experiments at break and lunch.</p>	<p>Maths – throughout all topics.</p> <p>DT – electricity, wiring and household skills.</p>

Adaptations, interdependence and competition

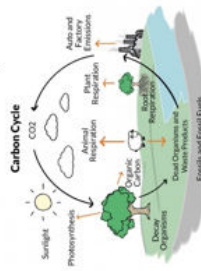
Organisms adaptations enable them to survive in conditions where they normally live. Adaptations may be structural, behavioural or functional.

Adaptations may be structural, behavioural or functional.

Competition	Plants in a community or habitat compete with each other for light, space, water and mineral ions.	Abiotic	Non-living factors that affect a community	Biotic	Living factors that affect a community
	Animals compete with each other for food, mates and territory.				
Interdependence	Species depend on each other for food, shelter, pollination, seed dispersal etc.				
	Removing a species can affect the whole community				

<http://www.bbc.com/education/topics/zo/h39>

Flow materials are cycled



Biodiversity

iodiversity is the variety of all the different species of organisms on





great biodiversity ensures the stability of ecosystems by reducing the dependence of one species on another for food, shelter and the maintenance of the physical environment. The future of the human species on Earth relies on us maintaining a good level of biodiversity. Many human activities are reducing biodiversity and only recently have measures been taken to try to stop this reduction.

https://www.youtube.com/watch?v=b_WpF9TeficM&list=PLaong7UuFuNuQh78SJ72FBeraUMIxNCqj

ly Biology teacher is:

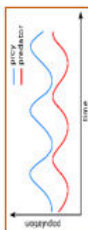
Organisation of an ecosystem

Photosynthetic organisms are the producers of biomass for life on Earth

Feeding relationships in a community				
Producer	Primary consumer	Secondary consumer	Tertiary consumer	
 Grass	 Grasshopper	 Mouse	 Owl	<p> All food chains begin with a producer e.g. grass that is usually a green plant or photosynthetic algae. </p> <p> Consumers that kill and eat other animals are predators and those eaten are prey. </p>

in a stable community the numbers of predators and prey rise and fall in cycles.

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Mid-Cycle Assessment

Global warming

Levels of CO_2 and methane in the atmosphere are increasing.

Land use

Humans reduce the amount of land and habitats available for other plants, animals and microorganisms.

Building and quarrying.

Farming for animals and food crops.

Dumping waste.





Destruction of peat bogs to produce cheap compost for gardeners/farmers to increase food production.

Deforestation

Large scale deforestation has occurred to provide land for cattle and rice fields, grow crops for biofuels. Reduces biodiversity and removes a sink for increasing the amount CO₂ in the atmosphere

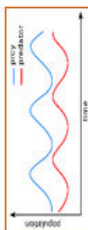
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Mid-Cycle Assessment

Waste management

Rapid growth
in human
population and
higher
standard of
living

More resources used and more waste produced.

Pollution in water; sewage, fertiliser or toxic chemicals.

Pollution in air; smoke or acidic gases.

Pollution on land; landfill and toxic chemicals.

Maintaining diversity

Scientists and concerned citizens have put in place programmes to reduce the negative effects of humans on ecosystems and biodiversity.

These include:

- These include:
- breeding programmes for endangered species
 - protection and regeneration of rare habitats
 - reintroduction of field margins and hedgerows in agricultural areas where farmers now only one type of crop
 - reduction of deforestation and carbon dioxide emissions by some governments
 - recycling resources rather than dumping waste in landfill.

Year 11 Chemistry - Cycle 2 Knowledge Organiser

Chemistry Paper 2- Chemistry of the atmosphere

Composition of the atmosphere



<https://www.bbc.com/education/topics/zsvsv9g>

Evolution of the atmosphere

Early Atmosphere
Atmosphere is mainly carbon dioxide with no oxygen.

4.6 – 3.6 Billion Years Ago
Volcanoes erupt releasing nitrogen and water vapour. Water vapour condenses and forms the oceans. Some carbon dioxide dissolves in the oceans. Carbon dioxide is also locked in fossil fuels and sedimentary rocks.

2.7-1.7 Billion Years Ago
Plants evolve and release oxygen through photosynthesis. They take in more carbon dioxide.

<https://www.youtube.com/watch?v=6cGLHT7zOQ>

How oxygen increased

Algae and plants produced the oxygen that is now in the atmosphere by photosynthesis, which can be represented by the equation:



Algae first produced oxygen about 2.7 billion years ago and soon after this oxygen appeared in the atmosphere. Over the next billion years plants evolved and the percentage of oxygen gradually increased to a level that enabled animals to evolve.

How carbon dioxide decreased

Reduction of CO₂ by formation of deposits

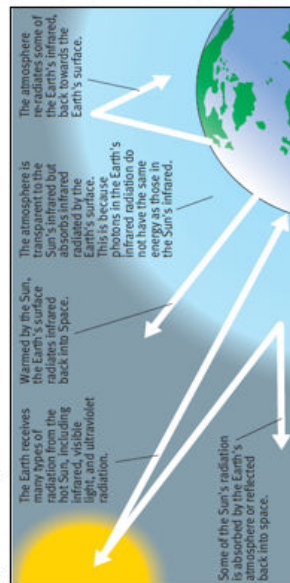
Coal	Plants absorbed CO ₂ . They died and decayed. This layer of decaying plants was compressed to form coal.
Oil and natural gas	Plankton absorbed CO ₂ . Plankton died and were deposited in muds on the sea floor. They were covered over and compressed over millions of years.
Limestone	Shelled animals absorbed CO ₂ to make their calcium carbonate shells. The remains of these animals were compressed to form limestone.

<https://www.youtube.com/watch?v=Jl34dmbtmnU&index=17&list=PLs0a7UsrffsFLSgTetRVzN6QYv3ipC>

Mid-Cycle Assessment

Greenhouse gases and global climate change

Greenhouse gases keep temperatures on Earth high enough to support life. Water vapour, methane and carbon dioxide are greenhouse gases.



My Chemistry teacher is:

How humans increase carbon dioxide in the atmosphere

How humans increase carbon dioxide in the atmosphere	How humans increase methane in the atmosphere
Combustion of fossil fuels	Increased animal farming
Deforestation	Decomposition of rubbish in landfill
How humans can decrease carbon dioxide concentration	How humans can decrease methane concentration
Use alternative forms of energy e.g. wind turbines	Alternative foods - non-animal based
Energy efficiency e.g. more efficient cars	Increased recycling
Carbon capture - capturing CO ₂ from power stations and trapping it	
Carbon off-setting - planting more trees	
Effects of global warming	
Some regions will not be able to produce enough food because of drought.	
Changes to distribution of species and migration patterns.	
Increase in sea levels because of melting of polar ice caps.	
Reduction of water supplies in some regions.	

Atmospheric pollutants

Pollutant	Cause	Effect
Carbon monoxide, CO	Incomplete combustion of a hydrocarbon fuel.	Toxic gas. Colourless and odourless so hard to detect.
Sulfur dioxide, SO ₂	Burning coal or petrol. Both contain sulfur which reacts with oxygen in the air.	Cause respiratory problems (e.g. for those with asthma). Combine with water vapour to cause acid rain.
Nitrogen oxides, NO _x	In car engines. N ₂ and O ₂ from air react at high temperatures.	
Particulates	Incomplete combustion of a hydrocarbon fuel.	Global dimming (reduction in sunlight reaching Earth).

AQA

Year 11 Chemistry - Cycle 2 Knowledge Organiser
Chemistry Paper 2- Chemical analysis and using resources

Purity and Formulations

<https://www.bbc.com/education/topics/zgbccl6>

Key terms-
Pure= A pure substance is a single **element** or **compound**, **not mixed** with any other substance.
Formulation=A **mixture** that has been designed as a useful product. Formulations are made by mixing the components in **carefully measured quantities**. Formulations include **fuels, cleaning agents, paints, medicines, alloys, fertilisers and foods**.

Pure substances do not melt at specific temperatures (a horizontal line is produced).

Impure substances do not melt at specific temperatures.

Using resources key terms

Finite resource	A resource used by humans that has a limited supply e.g. coal.
Renewable resources	A resource used by humans that can be replenished e.g. trees. If not managed correctly, the resource may decrease.
Potable water	Water that is safe to drink . Has low levels of dissolved salts and microbes .
Fresh water	Water that has low levels of dissolved salts . Sea water is not fresh water.
Pure water	Only contains water molecules , nothing else.
Desalination	A process that removes salt from sea water to create potable water. Expensive as it requires a lot of energy . Only necessary in areas with small amounts of fresh water e.g. Spain.
Sewage	Wastewater produced by people . Contains potentially dangerous chemicals and large numbers of bacteria.

Water

[https://www.youtube.com/watch?v=78G8LDE0Z&list=PL80mZUjstVseLSEtRNVA5CQV858&index=11](https://www.youtube.com/watch?v=78G8LDE0Z&list=PL80mZUjstVseLSEtRNVA5CQV858&index=11&list=PL80mZUjstVseLSEtRNVA5CQV858&index=11)

Obtaining potable water in countries with plentiful fresh water e.g. the UK

- Find a suitable source of fresh water (e.g. a river or lake)
- Pass through **filter beds** to **remove particles**.
- Sterilise** to kill microbes e.g. by using **chlorine**, **ozone** or **ultraviolet light**.

Obtaining potable water in countries with limited fresh water requires treatment of sea water:

Reverse Osmosis

- Pressure** is applied to the water.
- The **water molecules** move through the **partially-permeable membrane**.
- Other particles** are too large and are not able to move through.

Distillation:

- Water is heated to **100°C**.
- It **evaporates**, leaving the salt behind.
- A **condenser** cools the water to return it to the liquid state.

Mid-Cycle Assessment

Required practical-Chromatography and R_f values

Chromatography
A method used to **separate mixtures** into their different chemicals.

Stationary phase
The **medium** (e.g. paper) through which the **mobile phase** passes in chromatography.

Mobile phase
The **solvent** (e.g. water) that carries the sample (e.g. ink) in chromatography.

R_f value
A value (always less than 1) that shows how far the substance has moved compared to the solvent.
Equation: $R_f = \frac{\text{distance moved by substance}}{\text{distance moved by solvent}}$

[https://www.youtube.com/watch?v=14xms5Nt6sk&list=PL80mZUjstVseLSEtRNVA5CQV858&index=11](https://www.youtube.com/watch?v=14xms5Nt6sk&list=PL80mZUjstVseLSEtRNVA5CQV858&index=11&list=PL80mZUjstVseLSEtRNVA5CQV858&index=11)

Identification of common gases

Gas	Procedure	Positive Result
Hydrogen	Hold a lit splint at the end of a test tube producing gas.	Hydrogen burns with a pop noise.
Oxygen	Hold a glowing splint in a test tube of the gas.	The splint relights if oxygen is present.
Carbon dioxide	Bubble gas through a solution of limewater .	Carbon dioxide causes the limewater to turn milky .
Chlorine	Place damp litmus paper in the gas.	The litmus is bleached white if chlorine is present.

[https://www.youtube.com/watch?v=PN6GQnGm8s&list=PL80mZUjstVseLSEtRNVA5CQV858&index=11](https://www.youtube.com/watch?v=PN6GQnGm8s&list=PL80mZUjstVseLSEtRNVA5CQV858&index=11&list=PL80mZUjstVseLSEtRNVA5CQV858&index=11)

Life cycle assessment

<https://www.abcc.com/basicallife/nature/nature.html>

Life cycle assessments **assess the environmental impact of products**. A LCA assesses the use of **water, resources, energy sources and production of some wastes** during the following stages:

- extracting and processing raw materials**
- manufacturing and packaging**
- use and operation** during its lifetime
- disposal** at the end of its useful life, including transport and distribution at each stage.

[https://www.youtube.com/watch?v=1m1W5Se&list=PL80mZUjstVseLSEtRNVA5CQV858&index=11](https://www.youtube.com/watch?v=1m1W5Se&list=PL80mZUjstVseLSEtRNVA5CQV858&index=11&list=PL80mZUjstVseLSEtRNVA5CQV858&index=11)

Year 11 Physics – Cycle 1 Knowledge Organiser

Physics Paper 2 – Forces

Key terms

Scalar quantity: A value with **magnitude (size) only**, e.g. **speed**, **distance**.

Vector quantity: A value with **magnitude (size)** and **direction**, e.g. **all forces, displacement, velocity**.

Contact forces: Force between objects that are **touching** e.g. friction, air resistance.

Non-contact forces: Force between **separate objects** e.g. gravitational force, magnetic force.

Resultant force: A resultant force is a **single force** that has the **same effect as all the forces** acting on an object.

Gravity and Weight

Weight is the **force of gravity** acting on an object's mass. Measured using a **newtonmeter**.

You must learn this equation and units.

Equation	Symbol equation	Units
Weight = mass x gravitational field strength	$W = m g$	Weight – newtons (N) Mass – kilograms (kg) gFS – newtons per kilogram (N/kg)

The weight of an object may be considered to act at a single point referred to as the object's 'centre of mass'. The weight of an object and the mass of an object are directly proportional.

Work done

Work is done when an object is **moved through a distance**. When work is done **against friction** there is a **temperature rise**.

You must learn this equation and units.

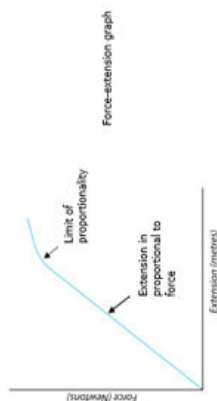
Equation	Symbol equation	Units
Work done = force x distance	$W = F s$	Work done – joules (J) Force – newtons (N) Distance – metres (m)

Forces and elasticity

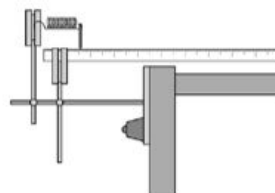
Elastic deformation	Occurs when a spring is stretched and can then return to its original length .
Inelastic deformation	Occurs when a spring is stretched and its length is permanently altered .
Limit of proportionality	The length a spring can be stretched before it no longer is able to return to its original length . Beyond the limit of proportionality, a force-extension graph is curved.

You must learn this equation and units.

Equation	Symbol equation	Units
Force = spring constant x extension	$F = k e$	Force – newtons (N) Spring constant – newtons per metre (N/m) Extension – metres (m)



Required practical – investigating the relationship between force and extension for a spring



- Hang different masses from a spring and measure the extension of the spring for each mass used
- Convert mass into weight
- Use your results to plot a graph of extension against weight.

My Science teachers are:

Year 11 Physics – Cycle1 Knowledge Organiser

Physics Paper 2- Forces (motion)

Scalar and vector quantities <https://www.bbc.com/education/topics/zmtm44>

Scalar quantity: A value with **magnitude (size) only**, e.g. **speed, distance**.

Vector quantity: A value with **magnitude (size) and direction**, e.g. **all forces, displacement, velocity**.

Distance and displacement

Distance is how far an object moves. Distance does not involve direction. Distance is a scalar quantity.

Displacement includes both the distance an object moves, measured in a straight line from the start point to the finish point and the direction of that straight line. Displacement is a vector quantity.

<https://www.youtube.com/watch?v=36CQ0TzUb7s&list=PL6ora7LU8rfVZoB1sMaSYdVdKH4eIC9>

Speed/Velocity

Speed does not involve direction. Speed is a scalar quantity.

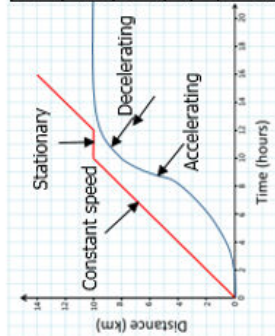
Velocity is the **speed** of an object in a **particular direction**.

Terminal velocity is the **maximum speed** of a moving object. Occurs when the **force moving** an object (e.g. gravity) is **balanced by frictional forces** (e.g. air resistance).

You must learn this equation and units.

Equation	Symbol equation	Units
Distance = speed x time	$s = v \times t$	Distance - metres (m) Speed - metres per second (m/s) Time - seconds (s)

Distance-time graphs



Constant speed - straight line
Accelerating - curved line upwards
Decelerating - curved line going towards horizontal
Stationary - horizontal line
Gradient of line can be calculated to give speed

Acceleration

You must learn this equation and units.

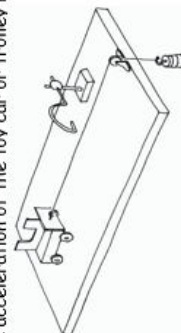
Equation	Symbol equation	Units
Acceleration = change in velocity / time taken	$a = \frac{\Delta v}{t}$	Acceleration = metres per second squared (m/s ²) Velocity = metres per second (m/s) Time = seconds (s)



Constant speed - horizontal line
Accelerating - straight line with velocity increasing
Decelerating - straight line with velocity decreasing
Stationary - horizontal line on x-axis (velocity = 0)
Moving backwards - below x-axis
Gradient of line can be calculated to give acceleration or deceleration

Required practical: Varying force and varying mass

- Time how long it takes for a toy car or trolley of constant mass to move a distance when different forces are applied to it
- Time how long it takes for a toy car or trolley to move a distance if the force applied is constant but the mass of the toy car or trolley is varied
- Calculate the acceleration of the toy car or trolley in each case.



Newton's laws

1 st law	The velocity of an object will only change if a resultant force is acting on the object. If there is no resultant force the object will: - Remain stationary if it was not moving. - Continue at a constant speed if it was already moving.
2 nd law	The acceleration of an object is proportional to the resultant force acting on the object, and inversely proportional to the mass of the object, i.e. Force = mass x acceleration.
3 rd law	Whenever two objects interact, the forces they exert on each other are equal and opposite.

Forces and braking

Stopping distance	The stopping distance of a vehicle is the sum of the distance the vehicle travels during the driver's reaction time (thinking distance) and the distance it travels under the braking force (braking distance).
Thinking distance	The distance a vehicle travels while a driver is reacting.
Reaction time	The time it takes for a driver to react, typically 0.2-0.9s. Affected by tiredness, drugs, alcohol and distractions.
Braking distance	The distance a vehicle travels under braking. Affected by weather conditions (e.g. rain or ice) and the conditions of the brakes and tyres of a vehicle.

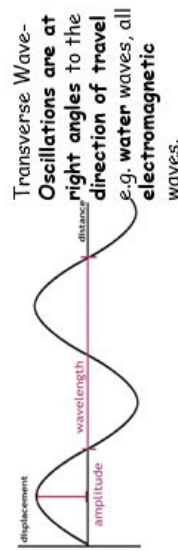
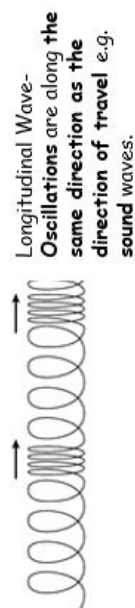
My Physics teacher is:

Year 11 Physics – Cycle 1 Knowledge Organiser

Physics Paper 2 – Waves

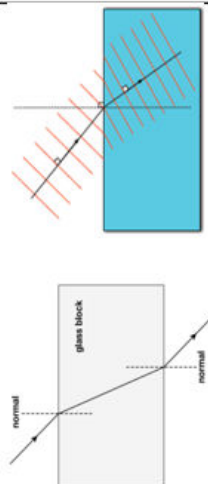
<http://www.aqa.org.uk/subjects/science/gcse/combined-science-trilogy-8464>

Transverse and Longitudinal waves



Properties of Waves

Amplitude	The maximum displacement of a point on a wave away from its undisturbed position.
Wavelength	The distance from a point on one wave to the equivalent point on the next wave.
Frequency	The number of waves passing a point each second.
Period	The time needed for one wave to pass a given point.
Compression	Region in a longitudinal wave where the particles are closest together.
Rarefaction	Region in a longitudinal wave where the particles are furthest apart.
Absorb	When the energy of an EM wave is taken up by an object.
Transmit	When a wave is able to pass through a material.
Reflect	The wave bounces off a surface; the angle of incidence is equal to the angle of reflection.
Refract	The wave changes direction when it enters a medium of different density where it has a different speed.



You must learn this equation and units

Equation	Symbol equation	Units
Wave speed = frequency x wavelength	$v = f \lambda$	Wave speed - metres per second (m/s) Frequency - hertz (Hz) Wavelength - metres (m)

Mid-Cycle Assessment

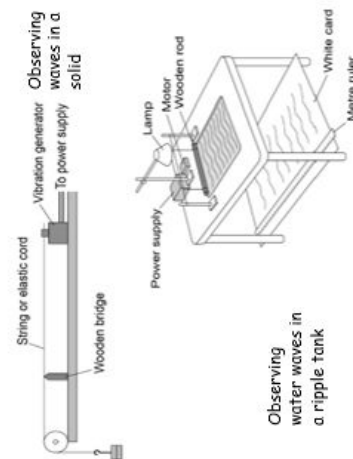
Types and properties of Electromagnetic waves

Long wavelength						Short wavelength
Radio waves	Microwaves	Infrared	Visible light	Ultraviolet	X-rays	Gamma rays
Low frequency						High frequency

Property	EM Wave	Sound Wave
Speed	300,000,000 m/s	Much slower (around 330 m/s)
Medium it can travel through (space).	Can travel through anything, even a vacuum (space).	Solids, liquids, gases
Type of wave	Transverse	Longitudinal
Wavelength	Very short	Longer

<https://www.youtube.com/watch?v=B4ED7mub48&index=14&list=PLsqoZUurVbrcB1-MqStay4ktH44a1CQ9>
<https://www.youtube.com/watch?v=ZnOpzT4NblQ&index=15&list=PLsqoZUurVbrcB1-MqStay4ktH44a1CQ9>

Required practical-observing the properties of waves



Uses and applications of Electromagnetic waves

EM Wave	Use	Risks
Radio Waves	Television and radio	
Microwaves	Satellite communications, cooking food	
Infrared	Electrical heaters, cooking food, infrared cameras	
Visible Light	Fibre optic communications	
Ultraviolet	Energy efficient lamps, sun tanning	Premature skin aging, increase risk of skin cancer (some can ionize)
X-Rays	Medical imaging and treatments	Ionizing – can cause mutation of genes and cancer
Gamma Rays	Medical imaging and treatments	Ionizing – can cause mutation of genes and cancer

My Physics teacher is:

KS4 Religious Studies Curriculum Plan 2024-25


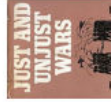


Staff	Year 10 - Edexcel	Year 11 - Edexcel
Careers	Building understanding of world views and philosophical and ethical approaches gives an understanding of how society functions. Leading to careers in the public sector, HR, Social policy design, law, environmental work, International development, working with NGOs etc. home work related tasks will be set at the end of every cycle that link to careers.	
Cycle 1 = 10 weeks	<p>Paper 1 Religion and Society through a study of Christianity</p> <p>Christian Beliefs</p> <ul style="list-style-type: none"> The Trinity The creation of the universe and humanity The incarnation The last days of Jesus' life The nature of salvation Christian eschatology The problem of evil and suffering Solutions to the problem of evil and suffering <p>Matters of Life and Death</p> <ul style="list-style-type: none"> Origins and value of the universe The sanctity of life The origins and value of human life The issue of abortion Death and the afterlife Non-religious arguments against life after death Euthanasia The natural world and issues raised 	<p>Intro Living the Muslim life -</p> <ul style="list-style-type: none"> The Ten obligatory acts in Shi'a Islam The Shahadah Salah Sawm Zakah and Khums Hajj Jihad Celebrations and commemorations <p>Intro Peace and Conflict -</p> <ul style="list-style-type: none"> Peace Peace making Conflict Pacifism The just war theory Holy war Weapons of mass destruction Issues surrounding conflict
Assess Week - (1 week)	GCSE style assessment, based upon these topics. Assessment and mark scheme in shared area.	Mocks and GCSE style assessment, based upon these topics Assessment and mark scheme in shared area.
Review - (1 week)	Green pen against mark scheme, peer review then teacher assessment followed by consolidation of common misconceptions.	Green pen against mark scheme, peer review then teacher assessment followed by consolidation of common misconceptions.
Cycle 2 = 10 weeks	<p>Intro Living the Christian life</p> <ul style="list-style-type: none"> Christian worship Sacraments The nature and purpose of prayer Pilgrimage Celebrations The future of the Church The Church in the local community The worldwide Church <p>Intro Marriage and the family -</p> <ul style="list-style-type: none"> Marriage Sexual relationships Families Roles within the family Family in the local parish 	<p>Revision</p> <p>Start revision for Mocks - Matters of life and death - Sanctity of life and associated teaching</p> <p>Cycle 2 -FULL MOCKS - Christian Beliefs and Practices, plus marriage and family revision</p> <p>Revision from the post mock point will be based upon weak areas from full mocks for each class, below is a suggested outline. This will be confirmed in Dept. meetings and agreed with HgF</p> <p>Cycle 2 - Structured Revision</p> <p>Start with Muslim Beliefs -</p> <p>6 Beliefs and 5 Roots</p> <p>Allah and Prophets</p> <p>Holy books and Angels</p> <p>Al-Qadr and Aqirah</p> <p>Living the Muslim Life revision -</p> <p>The 10 obligatory Acts and Shahadah</p>

	<ul style="list-style-type: none"> The family in the parish today Family planning Divorce Men and women in the family Gender prejudice and discrimination 	<p>Salah and Sawm</p> <p>Zakat and Khums - and Hajj</p> <p>Jihad and celebrations and festivals</p>
<p>Assess Week - (1 week)</p> <p>Review - (1 week)</p>	<p>GCSE style assessment, based upon this topic. Assessment and mark scheme in shared area.</p> <p>Green pen against mark scheme, peer review then teacher assessment followed by consolidation of common misconceptions.</p>	<p>GCSE style assessment, based upon this topic. Assessment and mark scheme in shared area.</p> <p>Green pen against mark scheme, peer review then teacher assessment followed by consolidation of common misconceptions.</p>
<p>Cycle 3 = 10 weeks</p>	<p>Introduction to Paper 2 - Religion, Peace and Conflict through a study of Islam</p> <p>Muslim Beliefs -</p> <ul style="list-style-type: none"> The six beliefs of Islam The five roots of "Usul ad-Din" in Shi'a Islam The nature of Allah Risalah Malakah Muslim Holy books Al-Qadr Akhirah <p>Intro Crime and punishment in Islam -</p> <ul style="list-style-type: none"> Justice Crime Good, evil and suffering Punishment Aims of punishment Forgiveness Treatment of criminals The death penalty 	
<p>Assess Week - (1 week)</p> <p>Review - (1 week)</p>	<p>GCSE style assessment, based upon this topic. Assessment and mark scheme in shared area.</p> <p>Green pen against mark scheme, peer review then teacher assessment followed by consolidation of common misconceptions.</p>	<p>Assessment based upon Paper 1.</p> <p>Green pen against mark scheme, peer review then teacher assessment followed by consolidation of common misconceptions.</p>









Year 11 Religion and Ethics – Cycle 2– Paper 2– Islam – Section 4 – Peace and Conflict



Introduction to religion, peace and conflict	Violent protest and terrorism	Reasons for war	Pacifism and peace-making	Key Terms for this topic
<p>What is the definition of peace, when thought about in terms of the absence of war?</p> <p>What is justice and what religious support is there for judgement?</p> <p>How are Muslims taught to forgive?</p> <p>What is forgiveness and reconciliation? Teaching examples from recer</p> 	<p>How does violence and protest happen and what is its place in society?</p> <p>What happened in the riots of 2011?</p> <p>What are religious beliefs about violence and terrorism?</p> <p>What is terrorism and how has British society experienced it?</p>	<p>What are the causes of war?</p> <p>Retaliation as a cause of war, and with particular reference to Afghanistan. Looking at 9/11.</p> <p>Religious views on war, from a Qur'anic perspective.</p> 	<p>What is pacifism?</p> <p>Is peace ever possible?</p> <p>Pacifism in Islam.</p> <p>What does Muhammad teach about peacemakers?</p> <p>What does a modern peacemaker look like?</p>	<p>Al-Salamu 'Alaykum Muslim greeting which means 'peace be upon you' Peace Being in harmony with oneself and others; opposite of war Peacekeeping The process of making peace by preventing or settling disputes Reconciliation Restoring harmony after relationships have broken down Conflict A serious disagreement that may lead to disunity and war Pacifism The belief that disputes should be settled peacefully and war and violence are always wrong Pacifist Someone who does not believe in war Passive resistance Non-violent opposition to authority, including civil disobedience or non-co-operation with the government Sanctity of life The belief that life is holy and it is God-given Just War Theory A set of conditions that need to be met in order for a war to be justified Harb al-Maqadis Usually translated as 'holy war', where the conditions for lesser jihad are fulfilled Holy war A war fought in support of a religious cause Weapons of Mass destruction (WMD) Nuclear, Biological or chemical weapons that cause widespread devastation and loss of life Terrorism The unlawful use of violence, including against innocent civilians, to achieve a political or religious goal Jihad Struggling or Striving Lesser Jihad Physically resisting evil by defending Islam by use of conflict and war if necessary Greater Jihad Spiritually resisting against temptation within oneself (this is not necessary for this topic but helps when understanding Jihad)</p>
<p>Just War</p> <p>What is the just war theory?</p> <p>How could we apply the just war theory to recent conflicts, with particular reference to Syria and the War in Iraq?</p> <p>What is the work of the United Nations and why was it founded?</p> <p>What organisations work with Muslim groups?</p> <p>What are the discussions around war and what are your opinions?</p> 	<p>Holy war and religion as a cause of violence</p> <p>What is a holy war? And how does this link to Jihad?</p> <p>What examples of Holy wars are there in history?</p> <p>How is a religion a cause of violence both in the UK and around the world?</p> <p>What are Muslim beliefs and responses to violence?</p> 	<p>Nuclear weapons and weapons of mass destruction</p> <p>What are weapons of mass destructions?</p> <p>When have nuclear weapons been used.</p> <p>What is the impact of chemical weapons and biological weapons on people and how are they used in war?</p> <p>What are the arguments for and against the use of WMD from a Muslim perspective?</p> <p>What religious support could be used to argue for and against the use of WMD?</p>	<p>Religious responses to victims of war</p> <p>How is help provided to victims of war?</p> <p>What does Red Crescent and Muslim Aid do to support the victims of war?</p> <p>What does the teaching "Love thy neighbour" really mean?</p> <p>How does the story of Qur'an teach Muslims to treat victims?</p> 	
<p>Stretch and challenge:- Do you think that there will ever be a time when there will be no war? Why?</p>				

Edexcel - Year 11 Religion and Ethics - Revision - Christian Beliefs

The Trinity	The Creation	The incarnation	The last days of Jesus' life	Key Words
<p>Christians believe that God is eternal, without limit (infinite), all-loving (omnibenevolent), all-powerful (omnipotent), all-knowing (omniscient)</p> <ul style="list-style-type: none"> Christians believe that God relates to the world in three different ways: God as the Father who created the world; God as the Son, Jesus, who is the saviour of the world; God as the Holy Spirit, an invisible spiritual power that guides and inspires human beings. 	<p>The Christian story of Creation is found in Genesis, the first book of the Bible, and describes how God created everything in the universe.</p> <ul style="list-style-type: none"> Christians believe that human beings are different from animals by being given a special place in God's Creation and a duty of stewardship. The story of Creation reminds them of this responsibility. Christians have different views about whether the Creation story is completely true. A belief in Creation is important to Christians as it demonstrates that God is eternal, all-powerful and should be worshipped. 	<p>Christians believe that Jesus is the Son of God who came to Earth in human form. This belief is known as the Incarnation.</p> <ul style="list-style-type: none"> Jesus is the second member of the Trinity and is understood to be completely divine and completely human at the same time. Belief in the Incarnation is very important to Christians. They believe that Jesus' death, as a sacrifice for the sins of human beings, demonstrates how much God loves and cares about humanity. Christians see Jesus as a source of revelation, which helps them to understand what God is like and how God wants them to live. Christians also believe that they can have a personal relationship with God through Jesus. 	<p>Christians believe that Jesus' suffering and death had a purpose. They also believe that the resurrection is the most important event in Christianity and proves that Jesus is the Son of God, the second member of the Trinity.</p> <ul style="list-style-type: none"> Christianity teaches that Jesus was betrayed by one of his disciples, Judas Iscariot. The Last Supper is the final meal that Jesus shared with his disciples before he was arrested. During the Last Supper Jesus gave his disciples two symbols to remember him by. The symbols of bread and wine, which represent the sacrifice of Jesus' body and blood, form an important part of Christian worship today in a ceremony known as the Eucharist. 	<p>Trinity God as one being in three persons</p> <p>Creationism the belief that the world was created in a literal 6 days</p> <p>Stewardship looking after something so it can be passed on to the next generation</p> <p>Incarnation God the Son taking human form as Jesus Christ</p> <p>Sin something damaging to a relationship with God</p> <p>Resurrection the belief that Jesus rose from the dead after 3 days</p> <p>Atonement Jesus death restores the relationship between God and humans damaged by Original Sin</p> <p>Salvation Being saved from sin; going to Heaven</p> <p>Eschatology area of Christian teaching about life after death</p> <p>Universalism the belief that everyone will go to Heaven</p>
Salvation	Eschatology	The problem of evil	Solutions to the problem of evil	
<p>Christians believe that Jesus suffered and died on the cross to save human beings from their sins. This is called atonement.</p> <ul style="list-style-type: none"> There are different views about how atonement works and there are a number of theories that try to explain it. Salvation is the idea that only a soul that is free from sin can be with God in Heaven after death. Christians believe that the opportunity of salvation is available to everyone through faith in Jesus, providing they are truly sorry for what they have done, repentant of their sins and ask for forgiveness 	<p>Christians believe that life continues after death in either heaven, hell or Purgatory. This is because they think human beings have a soul that lives on after the physical death of the body.</p> <ul style="list-style-type: none"> Some denominations also believe in an intermediate state before known as Purgatory. Christians believe that human beings have the opportunity to be with God when they die, depending on God's judgement and whether they have accepted salvation through Jesus Christ. Christians also believe in the Last Judgement, which will take place when Jesus returns to. The Last Judgement is when God makes a final judgement on everyone, alive or dead 	<p>The presence of evil and suffering in the world has always presented a challenge to Christian beliefs about God.</p> <p>For many, it is philosophically incoherent to believe in the Christian concept of God when there is so much evil and suffering in the world: how could an omnipotent, omniscient, omnibenevolent God exist whilst evil and suffering exists? It makes more sense to believe that God does not exist.</p> <p>For atheists the problem of evil and suffering isn't a problem in the same sense, it is just a tragic fact about life. For Christians it is a problem that needs a solution.</p> 	<p>There have been a number of different ideas, called theodicies, put forward that aim to reconcile the idea of an omnibenevolent, all-loving, and omnipotent, all-powerful, God alongside the existence of evil and suffering.</p> <ul style="list-style-type: none"> Christians believe that God cannot be responsible for evil. Many Christians believe that evil exists because human beings have misused their free will and made wrong moral choices, which has caused suffering. Some Christians believe that experiencing suffering can help people to develop into better human beings. Suffering also gives people the opportunity to make good moral choices, such as helping others. 	

Edexcel – Year 11 RE – Revision – Marriage and the family revision				Key terms for this topic: • Human sexuality: how people express themselves as sexual beings. • Homosexual: to be sexually attracted to someone of the same – sex. • Heterosexual: to be sexually attracted to the opposite sex. • Civil partnership: legal union of same – sex couples. • Cohabitation: a couple living together and having sexual relationship without being married to one another. • Remarriage: Someone who remarries again after their divorce and while their other partner is still alive. • Contraception: A way of preventing pregnancy. • Family planning: controlling how many children couples have. • Different methods of contraception: Condom, The pill or injection, The coil • Sterilisation
Marriage	Sexual relationships	Families	Families and the local parish	
Christians believe that marriage is: o part of God's plan for many, but not all, human beings; it is a gift from God o a lifelong, monogamous relationship, between one man and one woman o the right relationship for sexual relations and having children. • Christianity teaches that single people should live a celibate life and that cohabitation is a sin. However, individual Christians and groups of Christians can have different views on this. • Non-religious people may or may not agree with marriage, depending on their personal beliefs. A Humanist wedding ceremony is becoming more popular as a secular alternative	The Bible has strict teachings about sexual relationships, and some Christians believe God will punish sexual immorality. • Some Christians believe sex should only take place between a man and a woman within marriage. • Others have a more liberal view but only if a couple are in a committed and loving relationship. • Atheist views about sexual relationships differ according to personal beliefs. • Humanists think sexual relationships are a matter of personal choice, as long as everyone involved is happy with those choices.	There are lots of types of families in the UK. • Christian families also come in various shapes and sizes and they believe that: o the family is important for society and Christianity o parents and children have responsibilities to each other o children must obey and respect their parents o parents must look after their children, keep them safe o the Christian family is one of the main ways children learn about the Christian faith. • Humanists do not believe in God and do not agree with the idea of families teaching children to be religious. Humanists believe that: o the overall happiness of the family is more important than the structure of the family unit o parents should bring up their children to be caring and reasonable people	Christians believe they have a responsibility to care for, and help, others – particularly the family. • Local churches provide both pastoral and spiritual care. They try to help families in their parish in a variety of ways, including: o opportunities for families to worship and develop their faith together o running separate children's groups or clubs including Sunday schools, and adult classes and activities o supporting families through the different life stages, for example, births, marriages and deaths o offering counselling to help them resolve problems o giving support as a way of showing God's love; helping families also makes the Church stronger	
Family Planning/Contraception	Divorce	Men and women in the family	Gender, prejudice and discrimination	
• Christian Churches have different teachings about contraception. • The attitudes of Christians towards family planning and the regulation of births vary between denominations and within the same Church. • The Church of England and other protestant traditions like the Methodist Church agree with the responsible use of contraception. • The Roman Catholic Church gives its view on contraception in a document called Humanae Vitae. • The Roman Catholic Church disagrees with all artificial methods of contraception, but permits a natural method based on a woman's menstrual cycle. • Some Roman Catholics think artificial methods are more practical in the modern world. • Humanists are very supportive of the use of contraception providing the outcomes are positive.	Biblical teaching on divorce and remarriage is inconsistent. • Different Christian Churches have different teachings and attitudes towards divorce and remarriage. • All Christians agree that, ideally, marriages should last a lifetime. • Some Christian Churches, like the Church of England, accept that sometimes divorce is the 'most loving thing to do' for all concerned. • Churches that accept divorce will also in exceptional circumstances permit remarriage in a church. • The Roman Catholic Church does not permit divorce. It will not let Catholics who have remarried without an annulment take part in the Eucharist. • Humanist views on divorce sometimes agree with Christian views. • However, Humanists do not believe that marriage is a sacred relationship. They also support easier divorce laws, which many Christians might disagree with.	There are different teachings and attitudes towards the family roles of men and women within Christianity. • The Roman Catholic Church teaching is based on a traditional biblical model. It states that men and women have been created equal by God but for different purposes. • This means that the roles of men and women within the family are defined according to the Bible. • Many Christians disagree with this. They believe this view is no longer suitable for modern society. • The Church of England and many other Protestant Churches support flexible gender roles within the family, depending on the needs of the family. Both sides of this debate use biblical texts to support their views. • Humanists believe that men and women should both be happy with the roles they play within the family. • Some atheists, particularly feminist atheists, are very critical of the traditional Christian family roles for men and women. They say these beliefs have caused the mistreatment of women within the family and society	Prejudice and discrimination happens when people are pre-judged; this can lead to stereotyping. • Gender prejudice and discrimination happens when individuals or groups are treated differently because of what is believed about a particular gender. This is also known as sexism. • Both males and females can be affected by gender prejudice and discrimination. • Historically, and in the present day, women have been disadvantaged in many ways as a result of gender prejudice (also men but to a lesser degree). • Christianity has been criticised for its attitudes towards women. • Some people still believe that sexism exists in some parts of the Christian Church, particularly with regard to leadership opportunities for women. • Many individual Christians, Christian Churches and Christian organisations oppose gender prejudice and discrimination. • Humanists oppose gender prejudice and discrimination. • The rights of women are an important concern for some other atheists.	

Key Stage 4 Physical Education

	Year 10	Year 11		
	Leadership skills and implementing and developing tactics	Evaluating performance and demonstrating improvement	Enrichment	Curricular links
Cycle 1	<ul style="list-style-type: none"> • Evaluate <u>performance</u> • Embedding and continue to develop techniques into a <u>competitive game</u> • Use and develop tactics in various <u>situations</u> • Analyse and evaluate skills as a leader and official – officiating games with <u>support</u> <p>Assessment: skills learnt used within a game type of activity/<u>routine</u></p>	<ul style="list-style-type: none"> • Evaluate performance and demonstrate <u>improvement</u> • Embedding and continue to develop techniques into a <u>competitive game</u> • Use and develop tactics in various <u>situations</u> • Analyse and evaluate skills as a leader and official – officiating games with <u>support</u> <p>Assessment: skills learnt used within a game type of activity/<u>routine</u>3</p>	Football Netball Rugby Trampolining Fitness club Dance Basketball	HRE links Science
Cycle 2	<ul style="list-style-type: none"> • Evaluate <u>performance</u> • Embedding and continue to develop techniques into a <u>competitive game</u> • Use and develop tactics in various <u>situations</u> • Analyse and evaluate skills as a leader and official – officiating games with <u>support</u> <p>Assessment: skills learnt used within a game type of activity</p>	<ul style="list-style-type: none"> • Evaluate performance and demonstrate <u>improvement</u> • Embedding and continue to develop techniques into a <u>competitive game</u> • Use and develop tactics in various <u>situations</u> • Analyse and evaluate skills as a leader and official – officiating games with <u>support</u> <p>Assessment: skills learnt used within a game type of activity</p>	Football Netball Rugby Trampolining Fitness club Dance Basketball	
Cycle 3	<ul style="list-style-type: none"> • Evaluate <u>performance</u> • Embedding and continue to develop techniques into a <u>competitive game</u> • Use and develop tactics in various <u>situations</u> • Analyse and evaluate skills as a leader and official – officiating games with <u>support</u> <p>Assessment: skills learnt used within a game type of activity</p>	<ul style="list-style-type: none"> • Evaluate performance and demonstrate <u>improvement</u> • Embedding and continue to develop techniques into a <u>competitive game</u> • Use and develop tactics in various <u>situations</u> • Analyse and evaluate skills as a leader and official – officiating games with <u>support</u> <p>Assessment: skills learnt used within a game type of activity</p>	Cricket Rounders Athletics Tennis Softball	Measurements – Maths

Year 11 PE – Healthy participation, Game Play and officiating

Rugby

- Defensive tactics
- Attack tactics
- Formations
- Set plays
- Adapting tactics
- Leadership/ coaching

Trampolining

- Basic moves and twists
- Seat landing plus combinations
- Swivel hips
- Front landing plus combinations
- Back landing plus combinations
- Somersaults

Girls Football

Leaders:

Leadership skills
Confidence Skills
Working with others
Communication skills
Problem Solving skills.

Attacking:

- Finishing
- Passing
- Receiving
- Turning
- Moving with the ball

Defending:

- Intercepting
- Pressing
- Marking
- Challenging
- Covering and recovering

Table Tennis

- Grip and stance
- Push –
- Backhand/Forehand
- Backhand Drive – application of spin
- Forehand Drive – application of spin
- Serve
- Lob and smash
- Singles and doubles play

Football

- Defensive tactics
- Attack tactics
- Formations
- Set plays
- Adapting tactics
- Leadership / coaching

HRE

- Circuit movements
- Safe and effective use of resistance machines
- Planning, conducting and evaluating a fitness programme.

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Curriculum
plan here*

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*Stick Option 2
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*Stick Option 2
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*Stick Option 3
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