# Year 10 Curriculum Guide Core

Sapere Aude

I came to give life - life in all its fullness

High expectations - no excuses

#### Introduction



At the start of this academic year the focus as always for students will be settling back into routines and their lessons. There will also be an exciting opportunity for students to experience life in the 'world of work' in June – we await to see what format this may take. I continue to have high expectations for the whole year group in terms of behaviour, contributions to the school community and achievement. I know they will rise to the challenge! I am looking forward to seeing how the year group will continue to develop, progress and set the standard as "The Class of 2022." The outcome of their hard work over these next two years will stay with them for the rest of their lives and impact the range of choices available to them after TBOWA and further into the future.

"Do your future self a favour and work hard today"

- Aspirations
  - Year 10 students have a login to access the Unifrog website to research key careers info
- Knowledge Organisers
  - 30 minute daily tasks must be completed according to the timetable in the KO folder
- Attendance
  - All students should arrive in the Academy by 8.25am ready to learn

#### How can I be considered for the role of prefect?

Prefects are the school's role models. If you are a student with an excellent record of behaviour, attendance, punctuality and uniform then you are a suitable candidate. Prefect interviews will take place during the Pentecost term ready for Year 11 in September 2021.

#### What can I do if I want to start to think about work experience?

A good place to start is to discuss careers with members of your family and friends. Ask them about what their job title is and their daily role in the workplace. You can also use Unifrog to explore possible career options and routes to get there.

#### How much homework will I be expected to complete in Year 10?

You will need to complete your daily 30 minute Knowledge Organiser tasks - these will be checked and stamped each morning by your mentor. Year 10 students will also receive home learning tasks from each subject studied which will be recorded on Show My Homework.

#### Will I get support with revision before my end of year exams?

Yes, you will be given strategies to help you revise from each of your subject teachers and your mentor. You will be able to practice past exam questions during your lessons and you can also attend the 10:10 programme subject revision classes after school where you will receive individual support from teachers. Revision guides for most subjects are also available on sQuid.

#### Mentors:

10.1	Miss L Speaight <u>Lucy.Speaight@tbowa.org</u>	10.5	Miss J Butler <u>Jennifer.Butler@tbowa.org</u>
10.2	Miss L Page <u>Lauren.Page@tbowa.org</u>	10.6	Miss D Hawkins <u>Davina.Hawkins@tbowa.org</u>
10.3	Miss H Price-Davis <u>Harley.Price-Davis@tbowa.org</u>	10.7	Ms C Coe Charlotte.Coe@tbowa.org
10.4	Miss A Stoddard Amy.Stoddard@tbowa.org	10.8	Miss B Wallace Bryony.Wallace@tbowa.org

# **Key Dates:**

- Virtual mentor meetings between Tuesday 22<sup>nd</sup> September and Friday 2<sup>nd</sup> October 2020
- Year 10 Exams : 2<sup>nd</sup> November 13<sup>th</sup> November 2020
- Year 10 Parents Evening Tuesday 15<sup>th</sup> December 2020
- Year 10 Exams: 1st March 5th March 2021
- Year 10 Parents Evening Tuesday 20<sup>th</sup> April 2021
- Year 10 "Work Experience": 7<sup>th</sup> June 11<sup>th</sup> June 2021 (again in what form I'm not sure yet meeting with KBR next week)

# **Subject: English Language**



# Intent for the year:

At the Bishop of Winchester Academy, students will develop an understanding of our diverse literary heritage and will learn the skills they need to make competent, effective use of English language and gain an appreciation of fiction and non-fiction literature.

Students will explore connections between texts through developing their understanding of English concepts. Students' will develop an appreciation of reading and writing by experiencing opportunities to read complex texts. Additionally, students' moral character will be nurtured and developed through the exploration and interpretation of authorial intentions found in the themes, language and characterisation in texts. Our students will develop emotionally, culturally, socially and spiritually through their experiences with our key stage 4 English curriculum.

Students' cultural capital will be developed through experiencing texts like those they will encounter in their adult lives. Through being taught explicit reading strategies, grammar, spelling and academic vocabulary, students will develop confidence in reading, writing and oracy, so that they become strong communicators. Students will develop the discipline to write accurately, fluently and with stamina.

English gives all students the skills and knowledge to demonstrate industry and flair, and help them to prepare for further academic study or fields of employment which require a high level of literacy and the ability to make careful analytical decisions. TBOWA students of English will leave, at the end of their learning journey with us, prepared for the modern world, confident, analytical and capable to use the English language.

# **Topics covered:**

	Topic		Topic
Michaelmas 1	English Language paper 1	Lent 2	English Language paper 2 Section B:
	Section A: Explorations of		Writers' viewpoints and
	creative reading		perspectives
	Inference and deduction		Writing to argue
	Language and structure		Writing to persuade
	analysis		Writing to present a
	Selecting and embedding		viewpoint
	evidence		Critical thinking and
	Exploring the explicit and		interpretation
	implicit meanings behind		Employing a range of
	extracts		sentence constructions for
	Examining methods and		effect
	their effects		Oracy-debate and speaking in
	Oracy- reading aloud and independent reading		formal contexts

Michaelmas 2	English Language paper 1	Pentecost	English Language paper 1:
	Section B: Explorations of	1	Explorations of creative reading and
	creative writing		writing
	Narrative writing		Crafting figurative writing
	Employing structural		Applying structure for effect
	devices effectively		Mastering analysis
	Employing effective		Understanding conventions
	demarcation		of 19 <sup>th</sup> /20 <sup>th</sup> century writing
	Employing language		Employing academic
	devices and figurative		vocabulary for effect
	writing		Oracy: reading aloud
	Writing to describe using		Writing with a purpose and
	a stimulus		for different audiences
Lent 1	English Language paper 2:	Pentecost	English Language paper 2 & spoken
	Section A: Writers' viewpoints	2	language endorsement
	and perspectives- reading		Reading and writing about
	Inference, summarising		family, war, conflict and
	and deduction		healthy living
	Analysing language and		Writing in non-fiction forms
	exploring effects		Writing with purpose and for
	Non-fiction reading		different audiences
	conventions		Employing the language of
	Comparing non-fiction		argumentation and
	extracts & the authorial		persuasion
	methods		Employing academic
	Comparing 19 <sup>th</sup> century		vocabulary
	and 20 <sup>th</sup> /21 <sup>st</sup> century		Oracy- The art and power of
	contexts and non-fiction		Rhetoric
	writing		Oracy-formal presentations
	Oracy- debate and		
	speaking and listening		

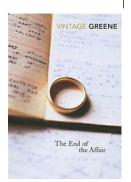
#### Parents / Carers can help by:

- > Supporting your child with their English Language homework. Proof read their extended writing pieces so they are able to develop their technical accuracy.
- Teaching your child new and ambitious vocabulary. Give them opportunities to use this vocabulary within the home.
- > Supporting your child in reading different forms of literature, including the reading of newspaper articles online blogs and magazine articles. Ask your child to identify the purpose, audience and language type. Get them to identify language and structural techniques.
- Support and monitor your child's independent revision on Seneca and how they use the CGP English guides.
- Provide opportunities within the home to talk-discuss and debate.

#### **Useful websites:**

- Mr Bruff is an English teacher who provides targeted exam revision, for free, on Youtube.
- https://www.aqa.org.uk/subjects/English/EnglishLanguage
- https://getrevising.co.uk/resources/level/gcse/subjects/english
- https://www.gocongr.com/en/gcse/subjects/english/

#### **Recommended reading:**



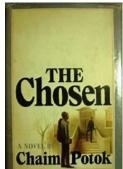
Bendrix and Sarah fall in love quickly, but he soon realises that the affair will end as quickly as it began. The relationship suffers from his overt and admitted jealousy. He is frustrated by her refusal to divorce Henry, her amiable but boring husband. When a bomb blasts Bendrix's flat as he is with Sarah, he is nearly killed.



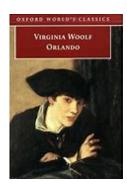
JOHN STEINBECK
East of Eden

'East of Eden' is a novel by Nobel Prize winner John Steinbeck, published in September 1952. Often described as Steinbeck's most ambitious novel, East of Eden brings to life the intricate details of two families, the Trasks and the Hamiltons, and their interwoven stories.

'The Chosen' traces a friendship between two Jewi boys growing up in Brooklyn the end of World War II. Reuven Malter, the narrator and one of the novel's two protagonists, is a traditional Orthodox Jew. He is the son David Malter, a dedicated scholar and humanitarian. Danny Saunders, the other protagonist, is a brilliant Hasid with a photographic memory and a passion for psychoanalysis.



The eponymous hero is born as a male nobleman in England during the reign of Elizabeth I. He undergoes a mysterious change of sex at the age of about 30 and lives on for more than 300 years into modern times without ageing perceptibly. As a teenage boy, the handsome Orlando serves as a page at the Elizabethan court and becomes "favorite" of the elderly queen.



#### **Extra-curricular opportunities:**

- Weekly afterschool intervention.
- Lunchtime English support run by English teachers and tutors.
- Creative writing, debate and reading 10:10 clubs.
- > 1:1 English intervention with one of our qualified English tutors.
- > Super learning days in which students experience opportunities to write extensively.
- > Walking Talking Mocks-Teachers talk through the exam process and timings to develop student exam confidence.
- Quarterly whole-school English competitions so that students get to exercise their creative talents-Reading challenges, writing speeches and writing poetry.

# Specification - 8702

Exam units	am units Revision areas		
English Language	Information retrieval- comprehension		
paper 1:	Language analysis (identifying and examining effects)		
Explorations of	<ul> <li>Word classes (nouns, adjectives, adverbs ect)</li> </ul>		
creative writing	<ul> <li>Figurative language (metaphors, similes ect)</li> </ul>		
and reading (1	<ul> <li>Sentence types (complex, simple, compound ect)</li> </ul>		
hour 45 minutes)	Structural analysis (identifying and exploring effects)		
,	<ul> <li>Structural devices (narrative perspective, sequencing, tense, focus</li> </ul>		
50% of English	shifts ect)		
Language GCSE	<ul> <li>Sentence forms (minor, declarative, complex ect)</li> </ul>		
	o Paragraphing		
	Evaluating		
	<ul> <li>Language for agreeing / disagreeing</li> </ul>		
	<ul> <li>Identifying methods (pronouns, simile, paradoxes ect) and selecting</li> </ul>		
	references from the extract to support evaluation of an extract		
	Narrative writing		
	Narrative structure		
	<ul> <li>Narrative perspective</li> </ul>		
	<ul> <li>Metaphorical and figurative language for effect</li> </ul>		
	<ul> <li>Employing a range of sentence and paragraph lengths</li> </ul>		
	<ul> <li>Accurate and effective use of punctuation</li> </ul>		
	Descriptive writing		
	Employing a strong voice		
	<ul> <li>Using linguistic devices for effect</li> </ul>		
	Academic vocabulary		
	<ul> <li>Variation of punctuation</li> </ul>		
English Language	Information retrieval		
paper 2: Writers'	<ul> <li>True / false (basic comprehension)</li> </ul>		
viewpoints and	Summarising & comparing		
perspectives (1	<ul> <li>Synthesise explicit and implicit ideas and information from two linked</li> </ul>		
hour 45 minutes)	texts		
,	Language analysis (identifying and explaining effects) & Structural analysis		
50% of English	(identifying and explaining effects)		
Language GCSE	o Same as Paper 1		
	Comparison of both texts		
	<ul><li>Comparative language</li></ul>		
	<ul> <li>Identifying relevant points and supporting them with evidence from the</li> </ul>		
	extracts		
	<ul> <li>Ensuring analysis includes subject terminology and is explicitly</li> </ul>		
	connected to the question		
	Writing about a viewpoints and perspectives		
	<ul> <li>Awareness and understanding of purpose, audience and form</li> </ul>		
	o Communicate clearly		
	<ul> <li>Organise information – sentences, paragraphs, discourse markers</li> </ul>		
	<ul> <li>Use a broad range of academic vocabulary (revising vocabulary taught</li> </ul>		
	in English will really support this)		

	<ul> <li>Accurate spelling and grammar</li> <li>Variety of punctuation</li> <li>The application of rhetorical language (Direct address, emotive language, personal pronouns ect)</li> </ul>
Spoken Language	Speaking in front of an audience
endorsement	<ul> <li>Social, emotional, physical and cognitive skills in speaking</li> <li>Speaking with confidence</li> </ul>
0% weighting	Structuring speeches
towards GCSE	<ul> <li>Using rhetorical language effectively</li> </ul>
course but a	<ul> <li>Using powerful and informed content</li> </ul>
compulsory course component	

Key dates:	
18/11/20	Walking-talking mock morning
2/12/20	Walking-talking mock morning
20/1/21	Walking-talking mock morning
Easter half term	Revision sessions
Half term	Revision sessions

#### **Recommended revision books:**

- York Notes (GCSE G9-1): AQA English Language practice tests with answers by Susannah White
- GCSE English Language AQA
   Complete Revision & Practice Grade 9-1 Course by CGP Books
- GCSE English Language AQA Revision Guide (for the Grade 9-1) by CGP Books
- GCSE English Language AQA
   Workbook for the Grade 9-1
   Course (includes Answers) (CGP
   GCSE English 9-1 Revision) by CGP
- Spelling, Punctuation and Grammar for GCSE, Complete Revision & Practice (CGP GCSE English 9-1 Revision) by CGP Books

#### **Recommended revision websites:**

- https://app.senecalearning.com/login
- https://www.aqa.org.uk/subjects
- https://www.bbc.co.uk/bitesize/examspecs/zcbchv4
- https://parts-of-speech.info/

# **Subject: English Literature**



# Intent for the year:

At the Bishop of Winchester Academy, the English curriculum equips students with the communication skills needed to flourish in a relational world. Students will develop an appreciation of reading and writing by experiencing opportunities to read complex texts and write in a variety of styles and formats for a variety of audiences and purposes. Through the teaching of explicit reading strategies, grammar, spelling and academic vocabulary students will develop confidence in reading, writing and oracy, enabling them to become strong communicators. Students will develop the discipline to write accurately, fluently and with stamina. Students will learn the skills they need to make competent, effective use of English language, and develop an understanding of our diverse literary heritage.

Students will follow a thematic curriculum with an emphasis on interleaving skills, exploring connections between texts and through developing their understanding of English concepts. Students' moral character will be nurtured and developed through the exploration and interpretation of each author's intentions found in the themes, language and characterisation in texts. The English curriculum challenges students to develop emotionally, culturally, socially and spiritually, and students' cultural capital will be developed as they explore a broad range of literature and begin to understand their impact on the modern world.

Students will be inspired to have a love of the English language and English literature. They will be prepared for further academic study or fields of employment which require a high level of literacy and the ability to make careful analytical decisions. KS4 TBOWA students of English will leave, at the end of their learning journey with us, prepared for the modern world, confident, analytical and capable to use the English language.

# **Topics covered:**

	Topic		Topic
Michaelmas 1	English Literature paper 1 Section A: 'Macbeth'  The Jacobean Era: social and historical context  Act 1: Setting, dramatic irony & the supernatural  Act 2: Character development  Exploring biblical allusions in 'Macbeth'  Analytical writing	Lent 2	English Literature paper 2 Section A:  'Blood Brothers' or 'An Inspector Calls'  Modern play conventions  Social and historical context  Why was the play written?  Act 1: setting, dramatic irony & class  Act 2:  Act 3: The relevance of the ending  Analytical writing

Michaelmas 2	English Literature paper 1 Section	Pentecost 1	English Literature paper 2 Section C:
	A: 'Macbeth'		Unseen poetry
	Act 3: The fall from Grace		The purpose and power of
	Act 4: Misplaced power		poetry
	Act 5: The divine right of		Poetry conventions and
	kings		forms
	Employing academic		Exploring the explicit and
	vocabulary, writing like a		implicit meanings within
	literary critic and using		poetry-uncovering the layers
	analytical language.		of meaning
	Analytical writing		Writing responses to poetry
	Oracy: debate and play		Oracy: Reading poetry aloud
	performance		
Lent 1	English Literature paper 1 Section	Pentecost 2	English Literature paper 2
Lent 1	B: 'A Christmas Carol'	i cinccost 2	Section B: Power and conflict poetry
	<ul><li>Social and Historical</li></ul>		> 15 poems from the power
	context: The Victorian Era		and conflict cluster of the
	The plot, setting and		anthology
	purpose		<ul><li>Identifying and analysing</li></ul>
	> Authorial intent		poetic techniques
	Allegory, morality tale and		<ul><li>Exploring the social and</li></ul>
	Philanthropy		historical context of the
	Exploration of themes,		cluster poetry
	character development		<ul><li>Uncovering the meaning,</li></ul>
	and motifs		imagery, tone, structure and
	Analytical writing		language
	Oracy: Reading aloud		Writing comparative essays

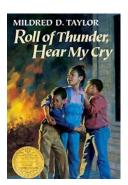
#### Parents / Carers can help by:

- Encouraging students to re-read the key texts and create revision resources; such as key quotation cards, dual coding maps for characters and themes.
- Re-read parts of the texts. Whilst reading, create character profiles, summaries of the key scenes. Get your child to write down key quotations found in the texts.
- ➤ Watch different adaptations of the texts (remembering that they may amend elements of the text you need to *focus on the original text*). Watch youtube analysis videos of the texts/poems to support your child's understanding.
- ➤ Use books, revision guides and audiobooks (from providers like audible, or iTunes) to become as familiar with the set texts as possible.
- Asking your child to summarise the whole text/s and or recite significant quotations from them.
- > Encouraging students to practice essay writing against the clock will support their writing stamina.

#### **Useful websites:**

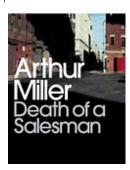
- https://www.sparknotes.com/
- https://www.enotes.com/
- https://www.bbc.co.uk/bitesize/examspecs/zcbchv4
- https://www.shmoop.com/

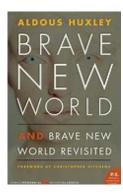
#### **Recommended reading:**



'Roll of Thunder, Hear My Cry' is a 1976 novel by Mildred D. Taylor, sequel to her 1975 novella Song of the Trees. It is a book about racism in America during the Great Depression and Jim Crow era. The novel won the 1977 Newbery Medal.

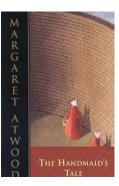
As a flute melody plays, Willy Loman returns to his home in Brooklyn one night, exhausted from a failed sales trip. His wife, Linda, tries to persuade him to ask his boss, Howard Wagner, to let him work in New York so that he won't have to travel. The play 'Death of a Salesman' uncovers the truth behind a man's journey who loses his job.





The novel opens in the Central London Hatching and Conditioning Centre, where the Director of the Hatchery and one of his assistants, Henry Foster, are giving a tour to a group of boys. The boys learn about the Bokanovsky and Podsnap Processes that allow the Hatchery to produce thousands of nearly identical human embryos.

Offred is a Handmaid in the Republic of Gilead, a totalitarian and theocratic state that has replaced the United States of America. Because of dangerously low reproduction rates, Handmaids are assigned to bear children for elite couples that have trouble conceiving.



#### **Extra-curricular opportunities**

- In-house performances of the key texts-'Macbeth' & 'A Christmas Carol'
- > 10:10 Reading club
- > English intervention afterschool and at lunchtime
- > 1:1 English literature tuition with a qualified English tutor
- English Literature super learning days and walking talking mocks

# **Specification - 8702**

Exam units	Revision areas		
English Literature	Section A: Shakespeare- 'Macbeth'		
paper 1	In the exam, students will be provided with an extract from the play and an		
Shakespeare and	essay question. Students will need to examine, analyse and write about the		
the 19 <sup>th</sup> century	extract and write about the play as a whole.		
novel	Revise:		
	<ul> <li>Social, political, historical and contemporary context</li> </ul>		
Section A:	O Why did Shakespeare write 'Macbeth'?		
'Macbeth'	<ul> <li>Plot structure</li> </ul>		
Section B: 'A	o Key Themes		
Christmas Carol'	o Characters		
	Key Quotations		
1 hour 45 mins	<ul> <li>Previous/practice essay questions</li> </ul>		
	Section B: 19th Century novel- 'A Christmas Carol'		
40% of GCSE	Students will answer one question on 'A Christmas Carol'. They will be		
	required to write in detail about an extract from the novel and then to write		
	about the novel as a whole.		
	Revise:		
	<ul> <li>Social, political, historical and contemporary context</li> </ul>		
	O Why did Dickens write the novella 'A Christmas Carol'?		
	Narrative structure		
	o Key Themes		
	<ul> <li>Characters</li> </ul>		
	<ul> <li>Key Quotations</li> </ul>		
	<ul> <li>Previous/practice essay questions</li> </ul>		
English Literature	Section A: Modern texts-'An Inspector Calls' or 'Blood Brothers'		
paper 2 Modern	Students will answer one essay question from a choice of two on the modern		
texts and poetry	drama text they have studied in class. No extract is provided for this essay		
	question.		
Section A: 'An	Revise:		
Inspector Calls' or	<ul> <li>The social and historical context</li> </ul>		
'Blood Brothers'	O Why did the playwright write the play?		
	<ul> <li>What relevance does the play have to a contemporary audience?</li> </ul>		
Section B: Power	Narrative structure		
and conflict poetry	o Key Themes		
	o Characters		
Section C: Unseen	Key Quotations		
poetry	<ul> <li>Previous/practice essay questions</li> </ul>		
	Section B: Poetry (Power and Conflict Poems)		
2 hours 15	Students will answer one comparative question. In this section, students are		
minutes	provided with a printed poem from their anthology cluster. Students then		
	independently compare to another poem they have studied from the cluster.		
	Revise:		
60% of English	<ul> <li>The 15 Power and Conflict poems – all 15 MUST be studied</li> </ul>		
Literature GCSE	Summarise each poem and explore the context behind the poem		
	<ul> <li>Annotated versions of the poems looking at: literary/language devices;</li> </ul>		
	structure; imagery; meaning; context and themes		

0	Key Quotations – 5 (minimum) from each poem on a variety of themes
0	Key Themes within the Anthology

- Areas of comparison/comparable poems
- Previous/practice essay questions
- Comparative language and analytical writing styles
- Exemplar responses

#### Section C Unseen poetry

Students will answer one question on one unseen poem and one question comparing this poem with a second unseen poem.

#### Revise:

- Techniques for approaching unseen poems (MITSL)
- o Practice responding to unseen poems
- Practice comparing unseen poems
- o Poetic techniques-enjambment, caesura, adjectives ect

Key dates:	
20-11-20	Walking-talking mock morning
15-03-21	Walking Talking mock morning
7-04-21	English Literature Super Learning Day
Easter	Half-term revision sessions
May half term	Half-term revision sessions

#### **Recommended revision books:**

#### **Power and Conflict Poems**

CGP - https://www.amazon.co.uk/GCSE-English-Literature-Poetry-Guide/dp/1782943617/ref=sr 1 1?keywords=cgp+powe

Along with the relevant CGP guides for the other literature texts.

r+and+conflict&qid=1573469195&sr=8-1

#### **Recommended revision websites:**

- https://app.senecalearning.com/login
- https://www.aqa.org.uk/subjects
- https://www.bbc.co.uk/bitesize/examspecs/ zcbchv4
- https://app.senecalearning.com/login
- https://www.aqa.org.uk/subjects/english/gc se
- https://www.sparknotes.com/

# **Subject: Mathematics and Statistics**



# Intent for the year:

Maths counts. Maths is the universal language by which we make sense of the world around us and the means by which its problems are solved. The key to unlocking the potential of young people and to solving the biggest threats to humanity are found in our classrooms.

But, not everything that counts can be counted. Students must be equipped to develop their independence and to understand that there is a purpose to maths beyond the classroom which is vital to them playing their full part in society. Students will be Mathematically fluent, financially numerate, statistically competent young people who are able to use Maths to model the world around them.

**Year 10** pupils will demonstrate a deeper understanding of mathematical concepts learnt in key stage 3. Pupils will be more confident, secure and fluent in interpreting diagrams and solutions, selecting the appropriate method to break down and solve problems and reason geometrically. They will be able to independently apply, interpret and evaluate their solution to complex problems. They will leave The Bishop of Winchester Academy confident in their ability to relate their knowledge to real-life contexts, from personal finances to managing their own business, solving every-day problems and prepared for further mathematical studies and/or the modern workplace.

# **Topics covered: Higher Tier**

	Topic		Topic
Michaelmas 1	<ul> <li>Number Keywords and their Applications</li> <li>Interpreting Limits of Accuracy</li> <li>Calculations &amp; Expressions with Indices</li> <li>Exploring Fractional Indices</li> <li>Calculating with Fractional Indices</li> <li>Exploring Surds</li> <li>Calculating with Surds</li> </ul>	Lent 2	<ul> <li>Vectors</li> <li>Manipulating expressions (including algebraic fractions and quadratics)</li> <li>Working with sequences (including geometric)</li> <li>Linear &amp; quadratic simultaneous equations</li> <li>Iterative methods</li> <li>2-variable inequalities &amp; expressing solutions using set notation</li> </ul>
Michaelmas 2	<ul> <li>Fractions &amp; decimals</li> <li>Percentages</li> <li>Ratio</li> <li>Proportion</li> <li>Scale</li> <li>Algebra &amp; graphs</li> <li>Congruence &amp; similarity</li> </ul>	Pentecost 1	<ul> <li>➢ Applied Mathematics:         <ul> <li>The Maths of Finance</li> <li>➢ Perpendicular graphs</li> <li>➢ Graphs of inequalities</li> <li>➢ Graphs of circles</li> <li>➢ Kinematic graphs</li></ul></li></ul>

Lent 1	> Surface area & Volume	Pentecost 2	Binomial distribution &
	Pythagoras in 2D and 3D		quality control
	Trigonometry in 2D and		Sampling, Capture
	3D		Recapture
	Introduction to circle		Correlation (Spearman's)
	theorems		Cumulative frequency &
	Applying circle theorems		Box plot
	Transformations		Averages (including
			grouped)
			Central tendency
			(quartiles and
			percentiles)

	Topic		Topic
Michaelmas 1	<ul> <li>Number Systems</li> <li>Number Types</li> <li>Applying the Four Operations</li> <li>Solving BIDMAS problems</li> <li>Applying Index Laws</li> <li>Applying Standard Form</li> <li>Estimating, Checking and Approximating</li> </ul>	Lent 2	<ul> <li>Expressions</li> <li>Quadratics</li> <li>Equations</li> <li>Simultaneous equations</li> <li>Inequalities</li> <li>Sequences</li> </ul>
Michaelmas 2	<ul> <li>Fractions</li> <li>Decimals</li> <li>Percentages</li> <li>Ratio</li> <li>Proportion</li> <li>Scale, similarity &amp; congruence</li> <li>Graphs</li> </ul>	Pentecost 1	<ul> <li>Applied Mathematics:         <ul> <li>The Maths of Finance</li> </ul> </li> <li>Parallel &amp; perpendicular graphs</li> <li>Graphs of inequalities</li> <li>Kinematic graphs</li> <li>Tree diagrams</li> <li>Venn</li> </ul>
Lent 1	<ul> <li>Surface area</li> <li>Volume</li> <li>Pythagoras</li> <li>Trigonometry</li> <li>Transformations</li> <li>Vectors</li> </ul>	Pentecost 2	<ul> <li>Sampling</li> <li>Correlation</li> <li>Cumulative frequency</li> <li>Box plots</li> <li>Averages (including grouped)</li> <li>Central tendency (including quartiles)</li> </ul>

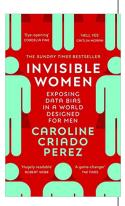
### Parents / Carers can help by:

- Ensuring that your child has the correct equipment for every lesson including the Casio FX991 scientific calculator.
- > Supporting your child with their weekly Hegarty Maths and exam paper work as well as their and knowledge organiser activities.
- > Attending parent's evenings to discuss your child's progress in their maths learning.
- > Attending any parent workshops offered by the maths department.
- > Talk about and embrace the maths that surrounds us in everyday life.
- > Encourage your child to attend after school maths enrichment opportunities.

#### **Useful websites:**

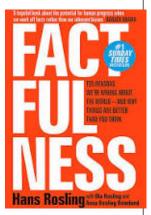
- https://hegartymaths.com/
- https://parallel.org.uk/
- https://nrich.maths.org/
- https://www.themathsfactor.com/
- http://chalkdustmagazine.com
- https://www.worldometers.info
- https://www.gapminder.org

#### **Recommended reading:**

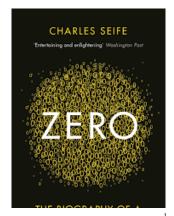


#### Invisible Women.

campaigner and writer
Caroline Criado Perez
brings gender data like
this to the fore. Although
it sells itself as a book
about data bias, it's
more of a book about
data on bias, a
catalogue of the facts
and figures that
document persistent
gender inequalities in
society

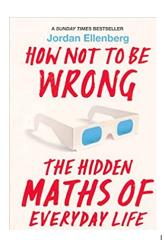


Factfulness: Ten
Reasons We're Wrong
About the World – and
Why Things Are Better
Than You Think is a
2018 book by Swedish
statistician Hans Rosling
with his son Ola Rosling
and daughter-in-law
Anna Rosling Rönnlund.
In the book, Rosling
suggests the vast
majority of human
beings are wrong about
the state of the world.



Zero: The biography of a dangerous idea.

The Babylonians invented it, the Greeks banned it, the Hindus worshipped it, and the Church used it to fend off heretics. For centuries, the power of zero savored of the demonic; once harnessed, it became the most important tool in mathematics.



How not to be wrong the hidden maths of everyday life. The **maths** we learn in school can seem like a dull set of rules, laid down by the ancients and **not** to be questioned.

In. Math allows us to see the hidden structures underneath the messy and chaotic surface of our world. It's a science of not being wrong, hammered out by centuries of hard work and argument.

#### **Extra-curricular opportunities**

> After school maths enrichment

# Maths Exam board – AQA

# **Specification - 8300**

Exam units	Revision areas
Paper 1	Any of the course content could be examined on any of the three papers
Non-calculator	
80 Marks	Fractions
1 hr 30 mins	Decimals
	Percentages
	Standard form
	Index form
	Surds
	Ratio
Paper 2	Proportion
Calculator	Collecting, processing and presenting data
80 Marks	Probability
1 hr 30 mins	Sequences
	Graphs
	Equations
	Inequalities
	Formulae and functions
	Quadratics
	Angles, area and volume
Paper 3	Transformations, constructions and loci
Calculator	Pythagoras
80 Marks	Trigonometry
1 hr 30 mins	Measures
	Conversions
	Vectors
	Paper One is the only paper where a calculator is not permitted.
	All three papers feature significant problem-solving elements

# Statistics Exam board - AQA

**Specification - 8382** 

Exam units	Revision areas
Paper 1	Any of the course content could be examined on any of the two papers
Calculator	Each paper contains multiple-choice questions, short answer questions and a
80 Marks	Statistical Enquiry Cycle (SEC) question.
1 hr 45 mins	
	Content covered includes:
Paper 2	The statistical enquiry cycle
Calculator	Data collection methods
80 Marks	Representing data
1 hr 45 mins	Analysisng and interpreting data
	Analysisng and interpreting statistical diagrams
	Probability
	Probability distributions (higher tier only)
	A calculator is permitted in both exams.

Recommended revision materials
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#### **Higher tier**

AQA GCSE Maths Flash cards

ISBN: 9781789083408

AQA GCSE Maths Revision Guide

ISBN: 9781782943952

AQA GCSE Maths Workbook

ISBN: 9781782943976

AQA GCSE Exam Practice Workbook

ISBN: 9781782943945

#### **Foundation Tier**

AQA GCSE Maths Flash cards

ISBN: 9781789083392

AQA GCSE Maths Revision Guide

ISBN: 9781782943914

AQA GCSE Maths Workbook

ISBN: 9781782943921

AQA GCSE Exam Practice Workbook

ISBN: 9781782943907

#### Recommended revision websites:

- https://www.hegartymaths.com
- https://www.aqa.org.uk/subjects
- https://www.bbc.co.uk/bitesize/

# **Subject: Science**



## Intent for the year:

Science is an essential part of a curriculum because an understanding of scientific vocabulary, processes and concepts is useful for everyone in a society, especially the developed technological society we currently, and will continue to live in. Science in school is the basis for anyone interested in careers in any fields in health, technology, engineering, agriculture, etc. but also will help anyone outside of those fields to understand better an increasingly complex world. The modern general public relies increasingly on social media for its news, where there is an abundance of information but rarely any verification of 'facts' and often the broadcasting of opinions of anti-science personalities as fact. A fundamental scientific education will help everyone to approach public issues objectively and rationally.

During year 10 Science, students will learn how science applies to many different careers, and the broader world. They will look specifically at how quantitative chemistry is used in the pharmaceutical industry, applying the particle model of matter to engineering, and how chemical analysis might be utilised by forensic scientists to conclude investigations. Students will also learn day-to-day essential skills, such as how to wire a plug, and how to ensure that they protect the environment for their own and future generations.

# Topics covered: Medical Science; Pharmaceuticals; Engineering; Innovation, Design and Technology; Pathology and Forensic Science; Chemical Engineering.

	Topic		Topic
Michaelmas 1	Engineering  > Quantitative Chemistry > Energy > Particle Model of Matter	Lent 2	Chemical Engineering  Rate & Extent of Chemical Change  Organic Chemistry
Michaelmas 2	<ul><li>Electricity</li><li>Innovation, Design and</li></ul>	Pentecost 1	<ul><li>Using Resources</li><li>Environmental Science</li></ul>
	Technology  Review (COVID Catch-up)  Bonding and Structure  Chemical Changes  Energy Changes  Radioactivity		<ul><li>Ecology</li><li>Chemistry of the Atmosphere</li></ul>
Lent 1	Pathology and Forensic Science  Review (COVID Catch-up)  Homeostasis and response  Inheritance  Chemical Analysis	Pentecost 2	Evolution  > Variation  > Evolution

#### Parents / Carers can help by:

- Encourage your child to use Seneca Learning for their revision.
- Engage in reading from the Science Reading List below.
- Encourage your child to complete past papers from the AQA website.

#### **Useful websites:**

https://app.senecalearning.com/login



https://www.aqa.org.uk/subjects/science/gcse/combined-science-trilogy-8464



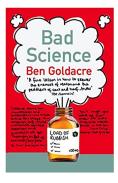
https://www.bbc.co.uk/bitesize/examspecs/z8r997h



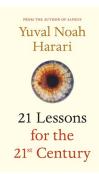
https://www.physicsandmathstutor.com/



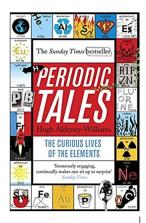
#### **Recommended reading:**



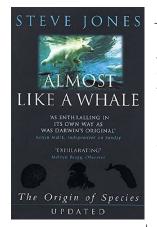
Since 2003 Dr Ben Goldacre has been exposing dodgy medical data in his popular Guardian column. In this eye-opening book he takes on the MMR hoax and misleading cosmetics ads, acupuncture and homeopathy, vitamins and mankind's vexed relationship with all manner of 'toxins'.



21 Lessons for the 21st
Century explores the
present. How can we
protect ourselves from
nuclear war, ecological
cataclysms and
technological disruptions?
What can we do about the
epidemic of fake news or
the threat of terrorism?
What should we teach our
children?



Everything in the universe is made of them, including you. Like you, the elements have personalities, attitudes, talents, shortcomings, stories rich with meaning. Here you'll meet iron that rains from the heavens and noble gases that light the way to vice. You'll learn how lead can tell your future while zinc may one day line your coffin. You'll discover what connects the bones in your body with the Whitehouse in Washington, the glow of a streetlamp with the salt on your dinner table.



In his new book, Steve
Jones takes on the
challenge of going back to
the book of the
millennium, Charles
Darwin's The Origin of
Species. Before The Origin,
biology was a set of
unconnected facts. Darwin
made it into a science,
linked by the theory of
evolution, the grammar of
the living world.

## **Extra-curricular opportunities**

> Science After School Enrichment

# Exam board - AQA

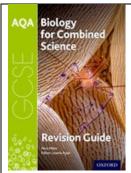
Recommended revision books:

# **Specification - 8464**

Exam units	Revision areas
Biology Paper 1 (1	Biology topics 1–4: Cell Biology; Organisation; Infection and response; and
hour 15 minutes or	Bioenergetics.
1 hour 45 minutes	Foundation and Higher Tier
for triple)	70 marks
	16.7% of GCSE Combined Science or 50% of GCSE Biology (Triple)
Biology Paper 2 (1	Biology topics 5–7: Homeostasis and response; Inheritance, variation and
hour 15 minutes or	evolution; and Ecology.
1 hour 45 minutes	Foundation and Higher Tier
for triple)	70 marks
	16.7% of GCSE Combined Science or 50% of GCSE Biology (Triple)
Chemistry Paper 1	Chemistry topics 8–12: Atomic structure and the periodic table; Bonding,
(1 hour 15 minutes	structure, and the properties of matter; Quantitative chemistry; Chemical
or 1 hour 45	changes; and Energy changes.
minutes for triple)	Foundation and Higher Tier
	70 marks
	16.7% of GCSE Combined Science or 50% of GCSE Chemistry (Triple)
Chemistry Paper 2	Chemistry topics 13–17: The rate and extent of chemical change; Organic
(1 hour 15 minutes	chemistry; Chemical analysis; Chemistry of the atmosphere; and Using
or 1 hour 45	resources.
minutes for triple)	Foundation and Higher Tier
	70 marks
	16.7% of GCSE Combined Science or 50% of GCSE Chemistry (Triple)
Physics Paper 1 (1	Physics topics 18–21: Energy; Electricity; Particle model of matter; and Atomic
hour 15 minutes or	structure.
1 hour 45 minutes	Foundation and Higher Tier
for triple)	70 marks
	16.7% of GCSE Combined Science or 50% of GCSE Physics (Triple)
Physics Paper 2 (1	Physics topics 22–24: Forces; Waves; and Magnetism and electromagnetism
hour 15 minutes or	Foundation and Higher Tier
1 hour 45 minutes	70 marks
for triple)	16.7% of GCSE Combined Science or 50% of GCSE Physics (Triple)

AQA GCSE Biology for Combined Science Trilogy (ISBN 978 019 835930 2)	https://app.senecalearning.com/login
	https://www.aqa.org.uk/subjects/science/gcse/combined- science-trilogy-8464

Useful websites:



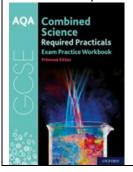
AQA GCSE Chemistry for Combined Science Trilogy (ISBN 978 019 835931 9)



AQA GCSE Physics for Combined Science Trilogy (ISBN 978 019 835932 6)



AQA GCSE Combined Science Required Practicals Exam Practice Workbook (ISBN 978 019 844492 3)





https://www.bbc.co.uk/bitesize/examspecs/z8r997h



https://www.physicsandmathstutor.com/



# **Subject: RS**



# Intent for the year:

Religious Studies is unique in the sense it is an academic subject with the opportunity to contribute so much to the holistic development of students. Our vision is that all students have a depth and breadth of knowledge and understanding of the world religions and world views outlined by the Bournemouth and Poole locally agreed syllabus. Students will learn from these religions and world views in a way that contributes to their personal development. This includes the Spiritual, Moral, Social and Cultural capital (SMSC), British Values, and Community Cohesion which focuses on preparing pupils for life in the 21st century, engaging pupils in a contemporary and relevant context.

At Key Stage Four, we aim to build upon and develop the skills students have begun to develop at Key Stage 3 as well as continuing to apply them to thematic topics. Students begin by furthering their knowledge of Christianity through exploring Christian beliefs and the threshold concepts key to the faith. These include the incarnation, trinity, atonement, and salvation. KS3 learning on 'The big story' and 'The person of Jesus' will be recalled and allow higher-order thinking on these concepts to take place. Continuing to build on KS3 knowledge students will study Islam beliefs and be introduced to the beliefs in Islam linking back to the learning on the prophet Muhammad. Prior knowledge will enable students to fully grasp concepts such as the Sunni & Shia split, and Angels having understood the narrative of Muhammad. The thematic study of Relationships & Families follows from Christian and Islam beliefs. This is because students need to understand what the beliefs are to identify the links to behaviour and practice. Students can also apply non-religious and ethical thought to this part of the course

# **Topics covered:**

	Topic		Topic
Michaelmas 1	<ul> <li>Christian Beliefs: The         <ul> <li>Nature of God and the</li> <li>Problem of Evil</li> </ul> </li> <li>The Trinity and Creation</li> <li>The Incarnation and the         <ul> <li>Crucifixion</li> </ul> </li> <li>The Resurrection and         <ul> <li>beliefs about life after</li> <li>death</li> </ul> </li> <li>Sin and Judgement</li> </ul>	Lent 2	<ul> <li>Violent and Peaceful protest</li> <li>Reasons for war and nuclear weapons</li> <li>Holy war</li> <li>Pacifism</li> <li>Victims of War</li> </ul>
Michaelmas 2	<ul> <li>Islam Beliefs: Sunni and Shi'a</li> <li>The Nature of God</li> <li>Angels</li> <li>Predestination and Life After Death</li> <li>Prophethood the Qur'an</li> </ul>	Pentecost 1	<ul> <li>Christian Practices:         <ul> <li>Forms of Worship</li> </ul> </li> <li>Sacraments</li> <li>Pilgrimage and Festivals</li> <li>Growth of the Church and Community</li> <li>Reconcillation</li> <li>Persecution</li> </ul>

#### Lent 1 Pentecost 2 Islam Practices: The five Theme A: Relationships and Families views on Pillars of Islam Ramadan and Sawm Marriage Zakah and Hajj Religious views on divorce and remarriage Jihad The Nature of Families Festivals > Beliefs about the roles of men and women Key teachings on sexuality and religious views on sexuality

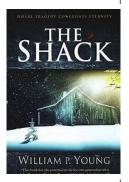
#### Parents / Carers can help by:

- Recognise that at TBOWA RS is an academic rigorous subject where students study religious, non-religious and ethical world views.
- Having a discussion with their child each week about their RS lesson, and any ethical topics in the news.
- > Support their child by developing a broad sense of the world, not just the views of an individual.
- > Read, share and discuss any communication received with regards RS.

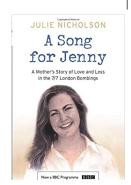
#### **Useful websites:**

- https://www.bbc.co.uk/bitesize/subjects/zh3rkqt
- https://quizlet.com/en-gb
- https://www.kerboodle.com/users/login
- https://www.educationquizzes.com/ks3/religious-education/

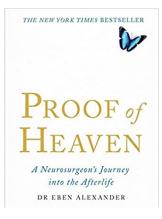
#### Recommended reading:



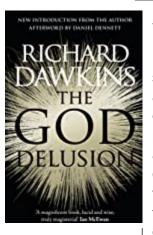
Mackenzie Allen Philips' youngest daughter, Missy, has been brutally murdered and is found in an abandoned shack. Four years later in the midst of his great sadness, Mack receives a suspicious note, apparently from God.



Julie Nicholson was the mother of Jenny, a gifted musician, who died in the 7/7 London bombings of 2005. She was also priest of two churches in Bristol, St Aidan's and St George's. Eight months after her daughter died Julie resigned.



Dr Alexander's neuroscience career taught him that near-death experiences are brain-based illusions, and yet his personal experience left him dumbstruck



In The God Delusion,
Dawkins contends that a
supernatural creator
almost certainly does not
exist and that belief in a
personal god qualifies as
a delusion, which he
defines as a persistent
false belief held in the
face of strong
contradictory evidence.

#### **Extra-curricular opportunities**

- **➢** Guest speakers from PACE
- > Spirited arts competition
- > Email a believer
- > Visit to Southampton Mosque

## Exam board – AQA Religious Studies A

# **Specification - 8062**

Exam units	Revision areas
Paper 1 - Component 1: The study of religions: beliefs, teachings and practices (1 hour 45)	<ul> <li>Christian beliefs</li> <li>Christian practices</li> <li>Islam beliefs</li> <li>Islam practices</li> </ul>
Paper 2 – Component 2: Thematic studies (1 hour 45 minutes)	<ul> <li>Theme A: Relationships and families.</li> <li>Theme D: Religion, peace and conflict.</li> <li>Theme E: Religion, crime and punishment.</li> <li>Theme F: Religion, human rights and social justice.</li> </ul>

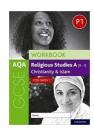
Key dates:	
M2	Walking talking mock
M2	Mock Exam
L2	Walking talking mock
L2	Mock Exam

# Recommended revision books:

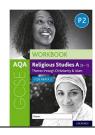
AQA GCSE Religious Studies A: Christianity and Islam Revision Guide



AQA GCSE Religious Studies A (9-1) Workbook: Christianity and Islam for Paper 1



AQA GCSE Religious Studies A (9-1) Workbook: Themes through Christianity and Islam for Paper 2



#### **Recommended revision websites:**

- https://app.senecalearning.com/login
- https://www.aqa.org.uk/subjects
- https://www.bbc.co.uk/bitesize/examspecs/zcbchv4
- https://www.kerboodle.com