

## 3<sup>rd</sup>/4<sup>th</sup> Year Information Evening

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Exam Subject

ART

Subject Leader

MR S RODERICK

Exam Specification

AQA ART AND DESIGN – FINE ART OR PHOTOGRAPHY

What resources are important for this subject e.g. websites/text books to purchase?

Most pupils will already have a GCSE Art pack and a good range of materials to complete the coursework component (60% of the final exam).

Pupils also find that a 'Pinterest' account is an invaluable source of visual information and ideas.

What advice can you give to ensure students do well in this subject?

Pupils need to aim to work ahead of deadlines, thus allowing more time to improve work and improve subsequently grades.

Pupils should look at previous pupils' work and sketchbooks.

Pupils should seek advice from older boys (working a lunch time each week in the Art room is a good opportunity for this).

Pupils need to be proactive in asking "how do I improve this?"

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Exam Subject

BIOLOGY

Subject Leader

MRS L WHITE

Exam Specification

(Gateway Science 9-1 OCR)

What resources are important for this subject e.g. websites/text books to purchase?

Kerboodle – with online textbook  
Boys shared area  
OCR website

What advice can you give to ensure students do well in this subject?

Complete all revision notes before February  
Independently revisit topics regular  
Past exam questions (legacy and current) throughout the year independently.

Topics

### 3<sup>rd</sup> Year

Cell structures  
Supplying the cell  
Scaling up  
Circulatory system  
Plant transport  
Respiration  
Photosynthesis

### 4<sup>th</sup> Year

Nervous system  
Endocrine system  
Homeostasis  
Ecosystems

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Exam Subject

CHEMISTRY

Subject Leader

MR M ELWELL

Exam Specification

AQA

What resources are important for this subject e.g. websites/text books to purchase?

AQA  
Kerboodle  
Dynamic Learning  
CGP AQA Revision Guide

What advice can you give to ensure students do well in this subject?

Read through notes regularly  
Ask for help as soon as a problem arises  
Complete all homework  
Start revision early – make brief notes  
Practice with past paper questions

Topics

3<sup>rd</sup> Year

Atomic structure  
Bonding  
Rates of Reaction  
Calculations  
Periodic Table

4<sup>th</sup> Year

Organic Chemistry  
Acids/Bases/Salts  
Electrolysis  
Energy changes  
Redox

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Exam Subject

Computer Science

Subject Leader

Mr D Sweeney

Exam Specification

AQA GCSE Computer Science -  
<http://filestore.aqa.org.uk/resources/computing/specifications/AQA-8520-SP-2016.PDF>

What resources are important for this subject e.g. websites/text books to purchase?

- <https://www.hoddereducation.co.uk/Product?Product=9781471886591>
- BBC Bitesize

What advice can you give to ensure students do well in this subject?

Students need to practice programming outside of lesson time, they should download visual studio at home and make use of it to complete homework

Students should attend coding clubs

Take advantage of any mentoring that is set up and offered to them

**2016-2017 Long term plan - (37 Week Year)**

**3<sup>rd</sup> Year**

<b>Michaelmas Term 6.5 Weeks – Half Term – 7.5 Weeks</b>		<b>Lent Term 5 Weeks – Half Term – 6 Weeks</b>		<b>Trinity Term 6 Weeks – Half Term – 6 Weeks</b>	
<b>6.5 Weeks</b> Introduction to the course and computing (0.5) Theory & Assessment (2) Introduction to high level programming (3) <b>Programming Test #1 (IF Statements and Data Types)</b>	<b>7.5 Weeks</b> Introduction to high level programming (3) Theory & Assessment (3) <b>End of Unit Theory Test #1</b>	<b>5 Weeks</b> Further programming (3) Theory & Assessment (3) <b>Programming Test #2 (Loops)</b>	<b>6 Weeks</b> Advanced programming (3) Theory (2) <b>End of Unit Test #2</b>	<b>6 Weeks</b> Mini Programming Tasks (3) Theory (2) Revision (1) <b>Programming Test #3 (Wage Calculator or Pizza Menu)</b>	<b>6 Weeks</b> <b>Internal Exam and Feedback (2)</b> Activities Week (1) Theory (3)
<p><b>Theory to be covered before the end of year exam:</b></p> <ul style="list-style-type: none"> <li>• <b>Programming Basics</b> (<i>Data types and Operations, Sequence and Selection, Iteration, Arrays, Records and Files</i>)</li> <li>• <b>Data Representation</b> (<i>Storage units and Binary Numbers, Binary Arithmetic and Hexadecimal, ASCII and Unicode, Images, Sound, Compression</i>)</li> <li>• <b>Fundamentals of Algorithms</b> (<i>Developing Algorithms using Flowcharts, Developing Algorithms using Pseudocode</i>)</li> </ul>					

## 4<sup>th</sup> Year

Michaelmas Term 6.5 Weeks – Half Term – 7.5 Weeks		Lent Term 5 Weeks – Half Term – 6 Weeks		Trinity Term 6 Weeks – Half Term – 6 Weeks	
<b>6.5 Weeks</b> Theory (2) Programming – Recap Tasks (1) Programming – Advanced Programming Tasks (3) <b>Programming Test #1</b>	<b>7.5 Weeks</b> Theory (4) Programming (3) <b>End of Unit Theory Test #1</b>	<b>5 Weeks</b> Programming (4) Theory (2) <b>End of Unit Theory Test #2</b>	<b>6 Weeks</b> Practise Controlled Assessment (6) <b>Controlled Assessment is Assessed</b>	<b>6 weeks</b> Theory (6) Revision (1) <b>End of Unit Theory Exam #3</b>	<b>6 Weeks</b> <b>Internal Exam and Feedback (2)</b> Activities Week (1) Practical Project (3)
<p><b>Theory to be covered before the end of year exam:</b></p> <ul style="list-style-type: none"> <li>• <b>Computer Systems</b> (<i>Boolean Logic, Application and System Software, Systems Architecture, CPU and F-E Cycle, Memory, Secondary Storage</i>)</li> <li>• <b>Impacts of Digital Technology</b> (<i>Ethical Issues, Digital Technology in Society, Legislation and Privacy</i>)</li> <li>• <b>Programming Techniques</b> (<i>Procedures and Functions, Validation and Authentication, Determining the Purpose of Algorithms, Errors and Testing, Classification of Programming Languages</i>)</li> </ul>					

## 3<sup>rd</sup>/4<sup>th</sup> Year Information Evening

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Exam Subject

Drama

Subject Leader

Mrs M Bull

Exam Specification

AQA GCSE Drama

Topics

- 'Blood Brothers' – set text
- Theatre history
- Theatre roles – actor, director, set designer, lighting designer etc
- Staging configurations
- Devised – creating theatre yourselves. Documented process via 'Devising Log' (choice: video/photos/written combinations). Your role can be as an actor, lighting designer, set designer or costume designer
- Scripted pieces – performing two extracts from the same published play to an examiner. Your role can be as an actor, lighting designer, set designer or costume designer

What resources are important for this subject e.g. websites/text books to purchase?

Illuminate AQA GCSE Text book - [click here](#)  
BBC Bitesize GCSE Drama website  
National Theatre website and YouTube channels

What advice can you give to ensure students do well in this subject?

- Ensure you attend the theatre as much as possible. Whether it is professional or amateur, it is about experience.
  - Develop your knowledge of behind the scenes (lighting, set design etc) not just acting
  - Get involved – join a youth theatre, volunteer at a theatre, work experience and/or sign up for the workshops and courses run at places like HOME theatre in Manchester and the Lowry theatre in Salford Quays (many of these opportunities are free)
  - Read – borrow plays from the Drama library and build up your knowledge of theatre (can also borrow DVDs)
- Be passionate and energetic about progressing in this subject

## 3<sup>rd</sup>/4<sup>th</sup> Year Information Evening

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Exam Subject

Design Technology

Subject Leader

Mr Cook

Exam Specification

AQA Design Technology (new specification 1 – 9)

What resources are important for this subject e.g. websites/text books to purchase?

[www.technologystudent.com](http://www.technologystudent.com)

New GCSE DT textbooks. Recommended is the Hodder textbook with the timber, plastic and metals focus for the Specialist Technical Principles. We can purchase these with a 20% discount through the department.

What advice can you give to ensure students do well in this subject?

Use the knowledge trackers provided by the DT department alongside the AQA specification to focus learning and self study. Using the specification to focus revision topics is essential to achieve grades 7 – 9.

Treat the NEA as an iterative design and make process and not linear. Research and evaluations should be evident throughout the project. Research **isn't** only carried out at the beginning of a project and evaluations at the end.



Year 3 Design Technology 2017-18 Year Overview  
St. Ambrose College

MEANINGS : STP = Specialist Technical Principles	CTP = Core Technical Principles	DMP = Designing & Making Principles
<p>1.1 Michaelmas Term</p> <p><b>Practical project - Toy plane:</b> Cross Halving joint &amp; mortise and tenon (DMP3.3.10 &amp; 3.3.11) Marking out and wasting (STP) Tools, equipment and processes (STP) CAD CAM (CTP3.1.1 &amp; STP3.2.8) Surface treatments and finishes (STP 3.2.9) Mechanisms (CTP 3.1.4) Prototype development (DMP 3.3.6) Communication (isometric and orthographic) - (DMP)</p> <p><b>Theory:</b> <b>New and emerging technologies (CTP)</b></p>	<p>2.1 Lent Term</p> <p><b>Practical project - Storage:</b> Finger joint (DMP3.3.10 &amp; 3.3.11) Tools, equipment and processes (STP 3.2.8, DMP 3.3.10) CAD CAM (CTP &amp; STP) Investigation primary and secondary (DMP) Tolerances (DMP 3.3.8) Prototype development (DMP 3.3.6) Communication (exploded development drawings) - (DMP)</p> <p><b>Theory: Specialist Technical Principles</b> <b>3.2.1 Selection of materials and components</b> <b>3.2.3 Ecological and social footprint &amp; 3.2.4 Sources and origin</b> <b>3.2.6 stock forms types and sizes</b> <b>3.2.7 Scales of production</b></p>	<p>3.1 Trinity Term</p> <p><b>Designing Project - Open brief to be decided by students</b> Investigation primary and secondary (DMP 3.3.1) The work of others (DMP 3.3.3) Design strategies (DMP 3.3.4) Communication of ideas (3.3.5) Prototype development (DMP 3.3.6) Selection of materials and components (DMP 3.3.7)</p>
<p><b>Assessment:</b> <b>Short TEST - Core Principles 3.1.1</b> New and emerging technologies</p> <p><b>Designing and Making Assessment</b></p>	<p><b>Assessment:</b> <b>Short TEST -</b> mixture of multiple choice and short response on CTP Short and extend response on STP DMP (old section A)</p> <p><b>Designing Assessment</b></p>	<p><b>Assessment:</b> <b>Short TEST -</b> mixture of multiple choice and short response on CTP Short and extend response on STP DMP (old section A)</p> <p><b>Designing Assessment</b></p>
<p>1.2 Michaelmas Term</p> <p><b>Practical project - Toy plane:</b> Cross Halving joint &amp; mortise and tenon (STP) Marking out and wasting (STP) Tools, equipment and processes (STP) CAD CAM (CTP &amp; STP) Surface treatments and finishes (STP) Mechanisms (CTP) Prototype development (DMP) Communication (isometric and orthographic) - (DMP)</p> <p><b>Theory:</b> •Energy generation and storage (3.1.2) •Developments in new materials (3.1.3)</p>	<p>2.2 Lent Term</p> <p><b>Practical project - Storage:</b> Finger joint (DMP3.3.10 &amp; 3.3.11) Tools, equipment and processes (STP 3.2.8, DMP 3.3.10) CAD CAM (CTP &amp; STP) Investigation primary and secondary (DMP) Tolerances (DMP 3.3.8) Prototype development (DMP) Communication (exploded development drawings) - (DMP)</p> <p><b>Theory: Specialist Technical Principles</b> <b>3.2.2 Forces and stresses</b> <b>3.2.8 Specialist techniques and processes</b> <b>3.2.5 Using and working with materials</b></p>	<p>3.2 Trinity Term</p> <p><b>CAD Project - Laser cut product</b> Techsoft and Solid Works (DMP 3.3.5 &amp; 3.3.6) Laser cutter (DMP 3.3.10 &amp; 3.1.11) 3D printer (DMP 3.3.10 &amp; 3.1.11) CAD CAM Tolerances (DMP 3.3.8) Communication of ideas (DMP 3.3.5)</p> <p><b>Theory:</b> <b>Revisit topics that assessment showed students struggles with:</b> Anthropometrics and ergonomics Market pull technology push QC and QA</p>
<p><b>Assessment:</b> <b>Big TEST - Core Principles 3.1.1, 3.1.2, 3.1.3</b> •New and emerging technologies •Energy generation and storage •Developments in new materials</p> <p><b>Designing and Making Assessment</b></p>	<p><b>Assessment:</b> <b>Big TEST - CTP &amp; STP</b> All Core Principles and Specialist Technical Principles <b>Designing and Making Assessment</b></p>	<p><b>Assessment:</b> <b>AQA specimen paper</b> <b>CAD Assessment</b></p>

## 3<sup>rd</sup>/4<sup>th</sup> Year Information Evening

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Exam Subject

English Language

Subject Leader

Mrs M Hill

Exam Specification

AQA English Language

What resources are important for this subject e.g. websites/text books to purchase?

- KS4 Terminology sheet
- Past paper questions
- Marked exemplars

What advice can you give to ensure students do well in this subject?

- Read a range of good quality fiction and non-fiction
- Be aware of the writer at work and try to identify audience and purpose
- Be sensitive to language and how it is used to achieve specific effects
- Plan extended written responses thoroughly
- Proof-read written work carefully to ensure accuracy
- Avoid reliance on spell-check to identify errors
- Get plenty of timed practice of past paper questions

Topics

Year 3 – ‘War and Conflict’ unit. Boys will study a range of fiction and non-fiction extracts based around the theme of war and conflict, developing reading skills in preparation for the GCSE English Language papers. They will complete a GCSE style reading assessment in class at the end of the unit.

Year 4 – ‘Great Expectations’. Boys will study the second of their GCSE English Literature set texts, developing their analytical and essay-writing skills. They will complete exam-style essay questions in class.

## 3<sup>rd</sup>/4<sup>th</sup> Year Information Evening

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Exam Subject

English Literature

Subject Leader

Mrs M Hill

Exam Specification

AQA English Literature

What resources are important for this subject e.g. websites/text books to purchase?

- Set texts: 'Lord of the Flies', 'Great Expectations' and 'Macbeth' (available to purchase through us)
- Class notes/ annotation/ revision materials
- Marked exemplars of exam-style questions
- Study guides may be useful for revision but are no substitute for reading the text itself

What advice can you give to ensure students do well in this subject?

- Read a range of good quality fiction to develop an appreciation of different styles/ genre
- Review class notes and annotation regularly to consolidate knowledge and understanding
- Re-read all literature set texts at least once and use cue cards to revise key themes/ ideas/ characters
- Revise literary terms to ensure that you are able to use them in your analysis
- Plan extended written responses thoroughly to ensure focus on the question
- Use marked exemplars to help you improve your own essay writing technique

Topics

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Year 4 – 'Great Expectations'. Boys will study the second of their GCSE English Literature set texts, developing their analytical and essay-writing skills. They will complete exam-style essay questions in class.

## 3<sup>rd</sup>/4<sup>th</sup> Year Information Evening

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Exam Subject

FRENCH

Subject Leader

MR M TOAL

Exam Specification

WJEC

What resources are important for this subject e.g. websites/text books to purchase?

Y3 – GCSE French Foundation Course book  
Kerboodle – online resources and tests to compliment the book  
  
Y4 – GCSE French Higher Course Book (2 Years)  
Kerboodle  
Vocab Express

What advice can you give to ensure students do well in this subject?

Regular learning of vocab (you cannot learn 1500 words at the end of the course).  
Solid knowledge and use of the 3 key tenses i) present ii) past iii) future.  
Aim to develop answers in speaking and writing tasks (use imagination).  
Full focus when practising listening and reading tasks in class – anticipation of the answers!

Topics

The topics covered over the 2 years include Lifestyle, Leisure, Home & Environment and Work and Education.

## 3<sup>rd</sup>/4<sup>th</sup> Year Information Evening

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Exam Subject

Geography

Subject Leader

B Mulrennan

Exam Specification

AQA Geography 8035

What resources are important for this subject e.g. websites/text books to purchase?

GCSE Revision Guide and workbook to purchase.  
YouTube for videos on many Geographical subjects.  
<https://www.bbc.co.uk/education/examspecs/zy3ptyc>  
<http://www.geography.learnontheinternet.co.uk/>  
<http://www.s-cool.co.uk/gcse/geography>

What advice can you give to ensure students do well in this subject?

Complete all pieces of work and make sure that you ask what work you have missed if you are away.  
Make sure that any work done on the computer is printed out and stuck into the exercise book.  
Meet deadlines for work.  
Read national newspapers to keep up to date with current events.  
Read ahead in the revision guide to see what topics you will be studying.

Topics

Topics for Year 3 Geography

- 1) Upland rivers and their landscapes.
- 2) Trip to the River Dane to collect data and complete a write up of the project.
- 3) Lowland rivers and their landforms.
- 4) Coasts – landforms caused by erosion and deposition. Coastal management strategies and a case study
- 5) Tectonic hazards – Volcanoes.

#### Topics for Year 4 Geography

- 1) Tectonic hazards – earthquakes.
- 2) Weather hazards.
- 3) UK weather hazards.
- 4) Climate change evidence, causes, effects and solutions.
- 5) Ecosystems – tropical rainforests and hot deserts.
- 6) Trip to Castleton for Human Geography fieldwork.

## 3<sup>rd</sup>/4<sup>th</sup> Year Information Evening

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Exam Subject

HISTORY

Subject Leader

MRS G SCOTT

Exam Specification

AQA – Currently studying 3<sup>rd</sup> Year International Relations 1894-1918.

What resources are important for this subject e.g. websites/text books to purchase?

Suggest family visit to Hardwick Hall  
AQA Website – GCSE code 8145  
Paper 1 Conflict and Tension 1890 – 1914 / Germany 1890 - 1945  
Paper 2 Britain Power and the People and Elizabeth 1  
Coursework shared area – Parentmail  
Hardwick Hall resources

What advice can you give to ensure students do well in this subject?

Keep your classwork/homework and assignments in good order.  
Review notes on a week by week basis  
Ask for help if needed  
Suggested Reading –  
Power and the People: Alf Wilkinson  
Elizabeth 1568 – 1603  
Understanding Modern World – Ferriby, Martin and Walsh

Topics

3<sup>rd</sup> Year  
Conflict tension 1890-1918  
Democracy and Dictatorship  
Germany 1890 - 1939

4<sup>th</sup> Year  
Elizabeth I  
Hardwick Hall

## 3<sup>rd</sup>/4<sup>th</sup> Year Information Evening

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Exam Subject

LATIN

Subject Leader

MR M TOAL / MS H GONZALEZ / MR R GODFREY

Exam Specification

OCR

What resources are important for this subject e.g. websites/text books to purchase?

Siegel Books 2 and 3  
Latin without tears (computer program)  
Bullfinch Mythology

What advice can you give to ensure students do well in this subject?

Regular learning of vocab.  
Regular practice of new points of grammar – Latin has lots of complex grammar so the pupil must be on top of this.  
Focus when translating Latin/English sentences/passages.

Topics

The focus is on grammar, vocab and understanding Latin passages



## 3<sup>rd</sup>/4<sup>th</sup> Year Information Evening

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Exam Subject

MUSIC

Subject Leader

MR A PHILLIPS

Exam Specification

AQA

What resources are important for this subject e.g. websites/text books to purchase?

School YouTube channel  
CGP Exercise books – AQA Music

What advice can you give to ensure students do well in this subject?

30 minutes regular rehearsal at home each evening on their instruments  
Complete homework tasks  
Complete all tasks set and work independent on the computer software i.e. lunch and break times.

Topics

Y3  
Intro to the course, Key aspects, Introduction to Composition ( Music Software )  
Solo and Ensemble Skills

Y4  
AOS1 and 4 Western Classical Music including Set Works  
Submit free Composition, Solo and Ensemble recordings

## 3<sup>rd</sup>/4<sup>th</sup> Year Information Evening

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Exam Subject

Physical Education

Subject Leader

Mr Fitzsimon

Exam Specification

AQA Physical Education 8582

What resources are important for this subject e.g. websites/text books to purchase?

Hodder Dynamic Learning  
Username: AQAPEGCSETL  
Password: student  
Centre ID: 15776

Pupils provided with a syllabus of what they need to know, command words, homework booklet, and will receive Topic on a page revision sheets.

What advice can you give to ensure students do well in this subject?

Use the Hodder Online Dynamic Learning:  
Topic Power points  
Self-test quizzes.

3 <sup>rd</sup> Year -	Applied Anatomy and physiology Cardio Respiratory System Aerobic and Anaerobic Movement Analysis
4 <sup>th</sup> Year -	Physical training Sports Psychology

## 3<sup>rd</sup>/4<sup>th</sup> Year Information Evening

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Exam Subject

PHYSICS

Subject Leader

MR E GWYER

Exam Specification

AQA Physics

What resources are important for this subject e.g. websites/text books to purchase?

[www.aqa.org.uk/subjects/science/gcse/physics-8463](http://www.aqa.org.uk/subjects/science/gcse/physics-8463)

Useful:

[www.bbc.co.uk/schools/gcsebitesize/science/aqa](http://www.bbc.co.uk/schools/gcsebitesize/science/aqa)

[physicsnet.co.uk/gcse-physics](http://physicsnet.co.uk/gcse-physics)

[www.docbrown.info/gcsephysics.htm](http://www.docbrown.info/gcsephysics.htm)

CGP Revision Guides available to buy through ParentPay

What advice can you give to ensure students do well in this subject?

1. Learn required equations and correct units
2. Practice converting between units and rearranging equations
3. Regularly review work to ensure long term recall.

Topics

Current Y3 – Energy, Electricity and Space; then Forces and Waves in Y4; Atomic Structure, Particle Model and Electromagnetism in Y5

Current Y4 – Forces and Waves; then Atomic Structure, Particle Model and Space in Y5

## 3<sup>rd</sup>/4<sup>th</sup> Year Information Evening

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Exam Subject

SPANISH

Subject Leader

MS H GONZALEZ

Exam Specification

AQA

What resources are important for this subject e.g. websites/text books to purchase?

Y3 – Mira 2 & 3 vocab books  
Grammar booklets (given to class)

Y4 – GCSE AQA Spanish GCSE text book  
Kerboodle  
Vocab Express  
[www.espanolextra.com](http://www.espanolextra.com)  
Booklets for speaking practice.

What advice can you give to ensure students do well in this subject?

Learn vocabulary after every lesson.  
Review and learn all tenses and practice these regularly.  
Practice speaking questions and role plays when given in class.  
Extend written work to ensure 3 time frames and opinions are used confidently each time.

Topics

The topics covered over the 2 years include Lifestyle, Leisure, Home & Environment and Work and Education.

## 3<sup>rd</sup>/4<sup>th</sup> Year Information Evening

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Exam Subject

Religious Education

Subject Leader

Mr M O'Neill

Exam Specification

AQA  
Catholic Christianity and Judaism

What resources are important for this subject e.g. websites/text books to purchase?

Text book provided when required in class.  
Kerbuddle information will be shared  
Youth Catechism

What advice can you give to ensure students do well in this subject?

Read widely  
Respond to feedback  
Ensure you can argue for and against  
Know Bible quotes and Catholic Teaching

Topics

3 <sup>rd</sup> Year -	Foundational Year won't be on the Final Exam Islam War and Peace Mark's Gospel
4 <sup>th</sup> Year -	Judaism Catholic Christianity Creation Incarnation Triune God Redemption