



Malton School

A Specialist Science School

Stronger For Being  One

Wider reading & Summer-work in preparation for September 2018

Note

If a subject is not included in this booklet (or in addition to the instructions from your teachers below) my advice to you would be to undertake several of the following;

- Watch TED talks relating to the subject
- Read at least one book relating to the subject
- Collate and read a number of newspaper articles relating to your subjects
- Start a MOOC – do a google search 'Future Learn' and begin a 3 week online learning module (they are free and easily accessed)

Mr Dent Summer 2018

Subjects

Mathematics

Summer work for Mathematics is;

- Go to the showbie class (code is EJKRE)
- There are 2 tasks in the class to complete
- The first is a set of GCSE Algebra recap questions
- The second is a problem solving task to do.

If any of the students have any questions they can write in the group discussion section. One of your teachers will respond to any comments made.

Geography

In preparation for the first terms Geography lessons students should familiarise themselves with plate tectonics, volcanic eruptions and earthquakes which will have been covered in Year 11. In particular we would like the students to focus on the Nepal earthquake of 2015 and the Icelandic eruption of Eyjafjallajokull by creating a case study of the disasters.

The causes and impacts of sea level change is another area of the course where we would expect students to read around given that it is predicted to have major implications for many areas of the world within their lifetime. Students should demonstrate their reading by producing a case study of coastal flooding in Bangladesh. This has devastating consequences but can be exacerbated by human actions as well as physical processes. Future geographers should also be aware of any tectonic disasters or examples of coastal flooding that occur during the summer break.

Make sure your case studies have;

- An introduction, place specific and maps included at a range of scales
- A number of specific facts relating to the event
- An examination of the various impacts of the disaster (social, economic, environmental, political)
- A range of sources of information
- A bibliography of sources used

Sciences

For Biology, Chemistry and Physics

Access the specification: AQA links below:

BIOLOGY <http://www.aqa.org.uk/subjects/science/as-and-a-level/biology-7401-7402>

CHEMISTRY <http://www.aqa.org.uk/subjects/science/as-and-a-level/chemistry-7404-7405>

PHYSICS <http://www.aqa.org.uk/subjects/science/as-and-a-level/physics-7407-7408>

After accessing specifications, topics at the start of the year should be reviewed

Also you may wish to purchase the associated text books:

https://www.cgpbooks.co.uk/School/books_a_level_explained#science – these will be on sale in school in September. However, you may wish to purchase a second hand one yourself.

The “Headstart” series helps you bridge the gap from GCSE to A level and the “Maths skills” series books will support you if you find maths difficult.

The CGP course books are the ones we have used last year to support the delivery as required.

Reading some of the early chapters should help familiarise yourself with the content covered early on in September.

Chemistry – additional information for your holiday work...

Showbie code is 6UT9V log in via Ipad or internet on a computer.

This has resources such as the specification and practical details required for the course. There will be a link to the YouTube channel and playlist to help with the 2 assignments

1. Atomic Structure - old and new models
2. Bonding - Ionic/Metallic/Covalent Structures recap. (see over)

Produce a summary for each of the videos detailing the main points (complete the sheets in each folder)

Physics – additional information for your holiday work...

Physics is both challenging and rewarding. While Maths is not an essential requirement for studying Physics at A level, you will need to revise rearranging of equations as well as basic trigonometry from BBC Bitesize or your GCSE notes.

To prepare you for the transition into Year 12, you should log into Showbie using code VJA2Y, where you will find two folders:

1. Rearranging Equations
2. Solving Equations

Complete the assignment sheets in each folder.

Biology – additional information...

The leap from Biology at GCSE to AS is great, far bigger than you would expect and many students are unprepared for this and struggle with much of the work from the start.

In preparation for the course complete the following tasks: log on to the showbie folder L2ML9 and familiarise yourself with the AQA Biology specification and read the other documents in the transition folder.

Prepare a PowerPoint presentation on why you have chosen biology at A level and also what you consider to be the most important biological development of the past few years. Upload this power point presentation to this showbie folder in "Transition from GCSE to A Level".

The presentation should be ready to for the first Biology lesson in September.

English

Buy and read:

The Handmaid's Tale (Margaret Atwood, novel)

The Great Gatsby (F Scott Fitzgerald, novel)

Skirrid Hill (Owen Sheers, poetry)

AQA Poetry Anthology: Love Through the Ages (pre-1900 - can be collected from CJW)

The Taming of the Shrew (Shakespeare, play)

A Streetcar Named Desire (Tennessee Williams, play)

Tasks

Prepare two five minute presentations introducing the two units:

1. How does literature show love through the ages?
2. What's so special about literature written after 1945?

Read widely, including pre-1900 texts, in preparation for NEA (coursework).

Write a book review for a text you have read that was written before 1900.

Design & Technology - Product Design

Design Technology - Product Design A Level requires a broad knowledge and appreciation of iconic designs and their impact on society. Research examples of well-known products and designers and select one to review, providing your own opinions on the aesthetics and functionality that make the product 'iconic'. Examples include Juicy Salif, Barcelona Chair, Anglepoise Lamp, the Mini Cooper.

Books

- Design for the 21st Century (Icons Series) - Charlotte Fiell and Peter Fiell
- Thames and Hudson - the eco-design handbook - by Alastair Fuad-Luke.
- Sketching – by Koos Eissen and Roselien Steuer
- Design Sketching (ISBN 978-91-976807-0-7) by Erik Olofsson and Klara Sjolen
- The Design of everyday things – Don Norman
- Starck (ISBN 3-8228-9752-3)

Websites and Magazines:

- www.dexigner.com - online magazine
- <http://designmuseum.org/>
- <http://www.designweek.co.uk/> - design week magazine.
- <http://www.id-mag.com/GeneralMenu/> - ID magazine
- <http://www.designcouncil.org.uk/>
- <http://www.core77.com/> online magazine
- www.technologystudent.com
- Pinterest

Find out about the timeline (dates), examples, 'ethos' and notable designers of the following design movements.

Arts & Crafts,
Art Deco,
Art Nouveau
Bauhaus
De Stijl
Memphis
Post Modernism

Psychology

Psychology is defined as “the scientific study of the mind and behaviour”.

In preparation for the course and to start you thinking about psychology, we would like you to find out about the following:

Prepare a short presentation (no more than 5 minutes) on an area of psychology that you are particularly interested in.

Miss Nichols – For the first lesson I would like you to:

a) Find out three facts about the following approaches – biological, behaviourist and cognitive.

b) Bring a newspaper/magazine/journal article about an aspect of psychology.

Mr Cook - refer to additional handout given out on the transition morning.

Health & Social Care

Using the internet research the key documents in health and social care and write a summary of each, e.g.

Every child matters, Health and safety in the work place, and safeguarding children and young people.

In addition you should try to gain some experience in a Health and Social Care related setting such as a. nursery/playgroup, hospital, dental practice, care/nursing home etc.

History

The ability to analyse and evaluate sources is one of the key skills you will need for A Level History. Read the following extract and have a go at answering the questions that follow.

GOD gives not kings the style of gods in vain,
For on his throne his sceptre do they sway,
And as their subjects ought them to obey,
So kings should fear and serve their god again
If then ye would enjoy a happy reign.
Observe the statutes of your heavenly king,
And from his law, make all your laws to spring.

Since his lieutenant here ye should remain,
Reward the just, be steadfast, true, and plain,
Repress the proud, maintaining aye the right,
Walk always so, as ever in his sight,
Who guards the godly, plaguing the profane.
And so ye shall in princely virtues shine,
Resembling right your mighty king divine.

Taken from the opening to Basilikon Doron, a book written by James I.

1. What do you think James I is trying to say here?
2. Find out about the Basilikon Doron. Why was it written and who was it for? What other ideas does it contain?
3. What do you think this can tell us about James I? Is it a useful source for a historian studying his reign?

Reading is also key to success at A Level. In preparation for your courses, you might want to have a look at some of the following:

The Cold War, John Lewis Gaddes

We ain't what we ought to be, Stephen Tuck

The English Civil Wars, Blair Worden

The Cradle King: A Life of James VI and I, Alan Stewart

If you don't fancy reading a 'proper' history book, how about some novels instead?

The Help, Kathryn Stockett

Revolutionary Road, Richard Yates

On the Road, Jack Kerouac

Rebels and Traitors, Lindsey Davis

Art

Your theme is Weird and Wonderful.

Create a Thought Shower (Mind Map) of at least 20 words related to this theme.

Explore the Art2day.co.uk website. The password is firework

Suggest 10 artists whose work might also be appropriate for this theme. From this list of ten choose three artists that you would like to study in greater depth. Collect three images by each artist and find out some basic biographical information.

This work should be produced using a digital format (Word/PowerPoint etc. You do not need to print it at this stage)

Collect images to create a moodboard on the theme of Weird and Wonderful. You could do this using Pinterest. If you do not have a Pinterest account please create one.

Watch the appropriate videos here:

<https://www.youtube.com/playlist?list=PLm4lhXbu9uU2awJsRFAMAplnHd6R-XnG>

Drama and Theatre Studies

Read a play that you haven't read before and bring it to the first lesson, prepared to discuss it.

Use the logon details below to explore the website resource:

www.digitaltheatreplus.com

Username: aleveldrama@maltonschool.org

Password: M@ltonSchool

Go to the theatre!

French

You will be studying just as much culture as you will language and vocabulary at A Level, so you will have to do some reading sound the following topics:

- Marriage trends in France – same-sex, divorce rates, etc.
- The role of technology in France and French-speaking countries
- French architecture and gastronomy
- French-speaking music
- French cinema and its history

I'd like you to choose one of these bullet points and research it thoroughly and prepare a presentation on it for September.

You'll also have to brush up on your grammatical knowledge that you covered in GCSE. So, in preparation for Year 12, *you'll have to prepare an explicit explanation of the following tenses.*

- The present tense for –er, -ir and –re verbs
- Common irregular verbs in the present tense
- The perfect tense (with *avoir* and *être*)
- The imperfect tense
- The future simple tense
- The conditional tense

Also, listen to as much French as possible on apps like BFMTV, Le monde, Le parisien, etc.

Computer Science – Summer Tasks

- 1) Sign up for an account on www.sololearn.com and work through the entire Python course
- 2) Go to this YouTube channel:
https://www.youtube.com/playlist?list=PLCiOXwirraUDUYF_qDYcZV8Hce8dsE_H (or type Craig n Dave AQA A-Level Computer Science into the search bar in YouTube) and watch the videos. Try and do a couple of videos a day. This will give you a good grounding in some of the A-Level topics that we will cover in Years 12 and 13.

Business – Summer Tasks

- 1) Go to this YouTube channel:
https://www.youtube.com/playlist?list=PLp8BSCLLWBUCTDvRtruUQE7Auli3N_kxk (or type A-Level Business Studies into the search bar on YouTube). Try and do a couple of videos a day. This will give you a good grounding in some of the A-Level topics that we will cover in Years 12 and 13.
- 2) Look at <https://www.bbc.co.uk/news/business> at least once a week and read the news articles – it's a good idea to keep up with the latest news in the world of business

IT – Summer Tasks

- 1) Sign up for an account at Weebly – www.weebly.com . Create a website on a topic of your choice. You will use this site for one of your coursework units so it's a great idea to get used to it over the summer so you are ready to go in September.
- 2) Go to <https://www.csnewbs.com/unit1> - This is all the content needed for the first exam. Read all the subject material and take notes.

Food Science and Nutrition

Pay particular notice to topical food related articles in the news. Often the advice can be developmental and requires you to form your own opinion and as guidelines change on a regular basis this will be a good discussion point for the start of the term.

Pay particular attention to information on food and its relationship to the environment as well as nutritional advice.

Lastly, cook and bake! This subject requires an enthusiasm for making your own food and trying to adapt recipes to make them your own. You will have a practical exam in Year 12 so the more you can practice, the better.

Collect as many articles as you can for first lesson back. And don't forget to make some notes on them!