



**Heathfield**  
Sixth Form

**Heathfield Sixth Form  
Transition Work 2018**

## Overview

In this booklet you will find the Transition Work that should be completed when you begin a course with us in September 2018. The work should allow you to demonstrate your capabilities in the subjects you have chosen. It will also give your teachers an understanding of where your strengths lie as you start the course. **Remember this will be the first opportunity that teachers will be able to assess your attitude towards studying at A Level.**

Resources referred to in this document are available on the College website. Ensure you contact the College with any concerns you may have with the Transition Work.

All work will be handed in during the second week of Term 1. Specific dates will be shared during your first lesson in the subject.

## Courses & Entry Requirements

Course Type	Course Name	Subject Specific Entry Requirements
A Level	Art, Craft and Design	Grade 4 or above in GCSE Art
A Level	Biology	Grade 6 or above in 2 GCSE Science subjects
A Level	Business	Grade 6 or above in GCSE Maths
A Level	Chemistry	Grade 6 or above in 2 GCSE Science subjects and Maths
A Level	Computing	Grade 6 or above in GCSE Maths
A Level	Core Maths*	Grade 4 or above in GCSE Maths
BTEC	Creative Media	
A Level	Economics	Grade 6 or above in GCSE Maths and English Language
A Level	English Language	Grade 6 or above in GCSE English Language and Literature
A Level	English Literature	Grade 5 or above in GCSE English Language and Literature
AS	Extended Project: D&T	
A Level	Further Mathematics*	Grade 7 or above in GCSE Maths
A Level	Geography	Grade 4 or above in GCSE Geography
A Level	Government & Politics	
A Level	History	Grade 6 or above in GCSE History
A Level	Mathematics*	Grade 6 or above in GCSE Maths
A Level	Music	Grade 6 or above in GCSE Music and Grade 5 in Music Theory
A Level	Photography	Grade 4 or above in GCSE Photography
A Level	Physical Education	Grade 4 or above in GCSE PE and Participation in Sport at a club level
A Level	Physics	Grade 6 or above in 2 GCSE Science subjects and Maths
A Level	Product Design	Grade C or above in GCSE Design and Technology
A Level	Psychology	Grade 6 or above in GCSE English and Science
A Level	Sociology	
A Level	Spanish	Grade 6 or above in GCSE Spanish
BTEC	Sports Studies	Participation in regular sport or fitness

\*Please note, Maths and Further Maths Transition work are on the same document.

## Transition Work

### Bridging the Gap

*This work is suggested for you to start exploring your subject. Although not formally assessed it will demonstrate your curiosity in the subject and may be referred to in the first term of your course.*

Over the summer, if you wish, you can keep a visual diary. This can be a combination of photographs, drawings and a collection of receipts, postcards, stamps, flyers from gallery visits etc - anything that indicates the activities you've undertaken. How you present this work is entirely up to you. In the past we've had students use old books, sketch books and mood boards.

### Preparation for September

Over the summer you will have the opportunity to purchase an art pack to support your home learning activities. If payment for this pack is made before the end of the summer holidays you will receive your pack and within the first 2 weeks back.

### Summer Task

*The task that has been set should take you no longer than two hours. The work will be expected to be handed in during the second week of the new year. Subject teachers will specify which lesson to submit the work in.*

### Overview of task

Produce two A3 sustained observational detailed studies of man-made and organic natural objects. Make sure each study fills the paper and consider composition and viewpoint.

1. Organic natural object - Choose appropriate media to convey the surface qualities and form of the object.
2. Man-made object - Choose media and technique to show structure and line.

Be dynamic, ambitious and original in your choices. Ensure both studies are of your highest quality.

### Work to be submitted

2 A3 studies

## Transition Work

### Bridging the Gap

*This work is suggested for you to start exploring your subject. Although not formally assessed it will demonstrate your curiosity in the subject and may be referred to in the first term of your course.*

“Head start to A level Biology” book. CGP Head Start to A-Level Biology  
**ISBN: 978-1-78294-279-5**

These will be available on the enrolment day or from D. James during Term time).  
 The book helps to bridge the gap between GCSE and the step up to A level Biology. The expectation is that students fully understand and work through sections 1 to 4, Section 6 and section 9.  
 Students achieving B grades in Combined Science GCSE or Biology GCSE, you must ensure that you are even more thorough, when going through the work, so that you are “up to speed” and in line with the expected level of ability, of students starting Biology in September.

Reading of any Science related books would be of interest to you and of use.  
 Helpful journals include: Biological Sciences (designed for A-Level Biology students) and New Scientist.

### Preparation for September

Folders: Divided for 2 separate teachers.  
 For each teacher separate sections for each topics, HWs easily accessible.

### Summer Task

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### Overview of task

“Head start to A level Biology” book.  
 The expectation is that students fully understand and work through sections 1 to 4, Section 6 and section 9. Students achieving B grades

Text:  
[AQA Biology, Glenn Toole and Susan Toole, Nelson Thornes. A Level 2<sup>nd</sup> Edition](#)

CGP A-Level Biology, AQA, Exam practice workbook.

### Work to be submitted

Sections 1- 4, Section 6 and section 9 in the Head start to A Level Biology book.

## Transition Work

### Bridging the Gap

*This work is suggested for you to start exploring your subject. Although not formally assessed it will demonstrate your curiosity in the subject and may be referred to in the first term of your course.*

Try 1 or more of the following:

- Steven Case, The Third Wave
- Richard Branson, Losing My Virginity
- Martha Stewart, Martha Rules: 10 essentials for achieving success as you start, build or manage a business
- Phil Knight, The Shoe Dog, A Memoir by the Creator of Nike,
- Jonah Berger, Contagious: Why Things Catch On
- James Dyson, Against the odds
- Anita Roddick, Business as unusual
- Dale Carnegie, How To Win Friends and Influence People

### Preparation for September

Starting off with 1 Lever Arch A4 folder with

- Wide separators for each of the parts of the course. You can add to these in order to separate topics out as you go along BUT you need sections for the following:
  - Self review checklists
  - Assessments & feedback
  - Current work / unmarked homework
  - Topic 1 notes / classwork
  - Key terms
  - Revision

### Summer Task

*The task that has been set should take you no longer than two hours. The work will be expected to be handed in during the second week of the new year. Subject teachers will specify which lesson to submit the work in.*

### Overview of task

This is research into some basic Key Terms & important Business data

1. **Business Introduction** - find the meanings of the following key terms
  - a. Opportunity Cost
  - b. Market Capitalisation
  - c. The separation of Ownership from control
2. **Business Data** - use the following URL: <https://www.ons.gov.uk/economy>, to find the following pieces of economic data
  - a. The number of people unemployed in August
  - b. The unemployment rate (expressed as a percentage)
  - c. The official rate of price inflation (CPI-H for the year to August)
  - d. The official rate of Economic Growth from August 2016 - August 2017 (AKA Gross Domestic Product: q-on-q4 growth rate CVM SA %)
3. For each type of data give ONE reason why a business needs to know it.

### Work to be submitted

Work should be submitted in the following format:

- Opportunity Cost means...
- Market Capitalisation means...
- Leadership means....
- Unemployment = ..... people. Unemployment rate = .....% of the workforce. A business needs to know the unemployment rate because...
- August 2017 Inflation = .....% per year. A business needs to know the Inflation rate because...
- Annual Economic Growth (August 2017 = .....% per year. A business needs to know GDP growth because...

## Transition Work

### Bridging the Gap

*This work is suggested for you to start exploring your subject. Although not formally assessed it will demonstrate your curiosity in the subject and may be referred to in the first term of your course.*

#### Resources you may find interesting and useful

CGP, Headstart to A Level Chemistry. ISBN: 978 1 78294 280 1

Sign up to the Royal Society of Chemistry's Twitter feed, @RoySocChem

Have a look at the course specification here: <http://www.ocr.org.uk/Images/171723-specification-accredited-a-level-gce-chemistry-b-salters-h433.pdf>

#### Some good books if you want to read around the subject

Periodic Tales: The Curious Lives of the Elements, [Hugh Aldersey-Williams](#) (author), ISBN: 9780141041452

The Science of Everyday Life: Why Teapots Dribble, Toast Burns and Light Bulbs Shine, [Marty Jopson](#) (author), ISBN: 9781782434184

Bad Science, [Ben Goldacre](#) (author), ISBN: 9780007284870

#### Or you might fancy a box set to watch.

Try the TV series 'Rough Science'. An entertaining BBC documentary series in which a team of scientists are sent to a remote location and must complete various using only basic tools and supplies, and whatever materials they can extract from the environment around them.

These can be found on DailyMotion [https://www.dailymotion.com/playlist/x2igjq\\_Rough-Science\\_rough-science-full-series/1#video=xxw6pr](https://www.dailymotion.com/playlist/x2igjq_Rough-Science_rough-science-full-series/1#video=xxw6pr) or YouTube <https://youtu.be/!UoDWAt259I>

### Preparation for September

You will need a folder for A level chemistry with dividers for five year 1 units and five year 2 units.

You must have a scientific calculator.

A mobile device that can be used to access online resources in lesson is highly recommended. Online practical method sheets will need to be accessed in class or printed out prior to the lesson.

### Summer Task

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#### Overview of task

Answer the 30 multiple choice questions provided. (Please see Chemistry Support Materials on the website)

You will probably need to use paper or online resources to help with this. It is linked to GCSE level chemistry, but will be demanding and require thought and effort.

Show the working out for the mathematical questions.

#### Work to be submitted

The answers to the 30 questions, along with any workings out shown.

## Transition Work

### Bridging the Gap

*This work is suggested for you to start exploring your subject. Although not formally assessed it will demonstrate your curiosity in the subject and may be referred to in the first term of your course.*

It will be very beneficial if you have a basic grasp of the computer language Python. We are aware that some of you won't have any experience in programming but if you know some of the basic syntax you'll enjoy coding far more.

### Preparation for September

Please see below for the minimum amount expected. The more you can do in preparation the better so please use some time to explore the language as much as you can.

### Summer Task

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### Overview of task

### Work to be submitted

#### **Python (No experience)**

The idea is that you all have a basic grasp of this computer language. Please create an account for the following website:

- If you haven't studied GCSE Computing
- You took GCSE last year but used a different language

<https://www.codecademy.com/learn/python>

Work through from the beginning of the course. It's designed to take around 13 hours so you'll only be expected to do the first couple of sections.

#### **Python (experienced)**

If you are proficient in Python please create an account for:

<https://projecteuler.net/>

Work through the **questions in order**. They start simply and get much harder! In two hours you won't get through more than a handful.

Please email Mr Sparrow if you have any problems  
([isparrow@heathfieldcc.co.uk](mailto:isparrow@heathfieldcc.co.uk))

We'll look at your online accounts to see how much work has been completed.

## Transition Work

### Bridging the Gap

*This work is suggested for you to start exploring your subject. Although not formally assessed it will demonstrate your curiosity in the subject and may be referred to in the first term of your course.*

Begin to widen your film knowledge by watching some of the films on the following Google Doc: <https://docs.google.com/document/d/1igDXnNBwFfeOy1-lsFK0b-R6gnGI0VNO2lpD2mOfEWk/edit?usp=sharing>. Please also feel free to add films of your choice to the google doc, so that other people can watch and enjoy them too.

It would also be useful for you to experiment with any filming/editing techniques for both audio and visual, using whatever equipment and software you have - even filming and editing on your phone, give you a sound understanding of how films are constructed.

### Preparation for September

No specific equipment required. Please come prepared to take notes in your preferred method (paper or computer)

### Summer Task

*The task that has been set should take you no longer than two hours. The work will be expected to be handed in during the second week of the new year. Subject teachers will specify which lesson to submit the work in.*

### Overview of task

Create a blog online at [www.blogspot.co.uk](http://www.blogspot.co.uk)  
Send me a link to this blog.: [BMaguire@heathfieldcc.co.uk](mailto:BMaguire@heathfieldcc.co.uk)

You need to engage with at least 5 different pieces of media during a 5-week period. Examples could be: a television programme, a film, a computer game, a social network site or a radio programme. As you are a media student, there are certain expectations about the things you should include. Write an entry on your blog for each of the pieces of media you have engaged with.

The format below gives you the bare minimum:

- *Name of the Text:*
- *Date/Time:*
- *Where did you find it?*
- *Genre:*
- *What is the purpose?*
- *Institution producing the text:*
- *Target audience:*
- *Your reaction to the text?*
- *Why would people consume the text?*
- *Could some people react in different ways to the text? How?*

(You can include screen grabs of articles, headlines, images or video clips that might be useful to illustrate your points)

### Work to be submitted

Online Blog

## Transition Work

### Bridging the Gap

*This work is suggested for you to start exploring your subject. Although not formally assessed it will demonstrate your curiosity in the subject and may be referred to in the first term of your course.*

Try 1 or more of the following & find out some interesting facts discovered by the economists who wrote them, like the reason why drug dealers live with their mum..... or..... what affect your first name has on your life chances (in the USA).

- Freakonomics, Steve Levitt & Stephen Dubner
- Super Freakonomics, Steve Levitt & Stephen Dubner
- Think like a Freak, Steve Levitt & Stephen Dubner
- When to Rob a Bank, Steve Levitt & Stephen Dubner
- The Armchair Economist, Steven Landsburg
- The Undercover Economist, Tim Harford

PS You don't have to be called "Steve" to study Economics!

### Preparation for September

Starting off with 1 Lever Arch A4 folder with

- Wide separators for each of the parts of the course. You can add to these in order to separate topics out as you go along BUT you need sections for the following:
  - Self review checklists
  - Current work / unmarked homework
  - Key terms
  - Assessments & feedback
  - Topic 1 notes / classwork
  - Revision

### Summer Task

*The task that has been set should take you no longer than two hours. The work will be expected to be handed in during the second week of the new year. Subject teachers will specify which lesson to submit the work in.*

#### Overview of task

This is research into some basic Key Terms & important economic data

4. **Micro Economics** - find the meanings of the following key terms AND find ONE example in the summer news of each.
  - a. Normative Economics
  - b. Positive Economics
  - c. Opportunity Cost
5. **Macro Economics** - use the following URL: <https://www.ons.gov.uk/economy> , to find the following pieces of economic data
  - a. The number of people unemployed in the UK in August
  - b. The unemployment rate (expressed as a percentage)
  - c. The official rate of price inflation (CPI-H for the year to August)
  - d. The official rate of Economic Growth from August 2017 - August 2018 (AKA Gross Domestic Product: q-on-q4 growth rate CVM SA %)
  - e. For each type of data, give one thing that the data tells us about the health of the UK economy

#### Work to be submitted

Work should be submitted in the following format:

- Normative Economics means...
- Positive Economics means ...
- Opportunity cost means....
- Unemployment = ..... people. Unemployment rate = .....% of the workforce. This tells us....
- August 2018 annual Inflation rate = .....% per year. This tells us....
- August 2017 annual Economic Growth rate = .....% per year. This tells us....

## Transition Work

### Bridging the Gap

*This work is suggested for you to start exploring your subject. Although not formally assessed it will demonstrate your curiosity in the subject and may be referred to in the first term of your course.*

Keep a scrapbook of articles about language - these could be articles about words that annoy people, about sexist language, about swearing, about the effect of texting or other technology on modern language usage.

Think about how people show authority through language - parents, football managers, politicians, celebrities - and anyone else you find interesting!

Have a look at Deborah Cameron's blog <https://debuk.wordpress.com> and David Crystal's website [www.davidcrystal.co.uk](http://www.davidcrystal.co.uk)

### Preparation for September

Bring 'Mother Tongue' and your reading notes with you, as well as your scrapbook. Make sure you have file paper and highlighters. Follow @hcclang on Twitter.

### Summer Task

*The task that has been set should take you no longer than two hours. The work will be expected to be handed in during the second week of the new year. Subject teachers will specify which lesson to submit the work in.*

#### Overview of task

Read 'Mother Tongue' by Bill Bryson and keep chapter by chapter notes as you read it. Come ready to discuss the key ideas. See English Language Resource.

#### Work to be submitted

N/A

## Transition Work

### Bridging the Gap

*This work is suggested for you to start exploring your subject. Although not formally assessed it will demonstrate your curiosity in the subject and may be referred to in the first term of your course.*

Read widely - from Shakespeare to 19<sup>th</sup> century novels and from modernist poetry to 21<sup>st</sup> century literary fiction. Keep reading logs or reading diaries on what you're reading and on how those books present their ideas and stories to you.

Read literary reviews - the London Review of Books or the Times Literary Supplement are great sources of these. There is a suggested reading list on the Transition Worksheet

### Preparation for September

Bring your reading logs, file paper, your copy of 'Far from the Madding Crowd' and plenty of ideas for discussion. Highlighters are also really useful for annotation. Follow @heathlit on Twitter

### Summer Task

*The task that has been set should take you no longer than two hours. The work will be expected to be handed in during the second week of the new year. Subject teachers will specify which lesson to submit the work in.*

### Overview of task

Read 'Far From the Madding Crowd' by Thomas Hardy and keep a reading log of your thoughts as you read it. Come ready to discuss the key themes and ideas. See English Literature Resource

### Work to be submitted

N/A

## Transition Work

### Bridging the Gap

*This work is suggested for you to start exploring your subject. Although not formally assessed it will demonstrate your curiosity in the subject and may be referred to in the first term of your course.*

Review a high performing EPQ by looking at the project and the assessment criteria. Access the PDF using the link below.

[https://qualifications.pearson.com/content/dam/pdf/Project-Qualification/Level-3/2010/Teaching-and-learning-materials/Rotax-Box\\_low.pdf](https://qualifications.pearson.com/content/dam/pdf/Project-Qualification/Level-3/2010/Teaching-and-learning-materials/Rotax-Box_low.pdf)

### Preparation for September

Ensure you have access to a good supply of design materials (pens, pencils, coloured crayons etc). Portfolios will be provided through a contribution in September.

### Summer Task

*The task that has been set should take you no longer than two hours. The work will be expected to be handed in during the second week of the new year. Subject teachers will specify which lesson to submit the work in.*

### Overview of task

To prepare you for the course the following task will ask you use some of these skills. You are to produce a final design concept for one of the following problems:

#### Problem 1

In inner cities large apartment blocks are built with limited outside space. Design a suitable method of encouraging families to grow their own vegetables by using a planter that can be fitted to a window sill or a balcony.

#### Problem

Effective storage in a child's bedroom is a must. Design a suitable method of storing a range of different objects under a bed. The product should have a suitable method of locking or closing to keep items safe.

#### Problem 3

Many sportsmen and women often find it difficult to practice their chosen sport when they are on their own, or do not have access to the environment the sport is played in. Design and make a device that will allow someone to practice their chosen sport when they are by themselves.

### Work to be submitted

For this task you are expected to produce:

- 1 A3 sheet of research presented in a format of your choosing - this can be completed using computer.
- 1 A3 sheet of initial design concepts - you must include some hand sketching on this sheet but you may use Computer Aided Design and models which are photographed to support your ideas.

## Transition Work

### Bridging the Gap

*This work is suggested for you to start exploring your subject. Although not formally assessed it will demonstrate your curiosity in the subject and may be referred to in the first term of your course.*

A useful book to read would be *Gaia: A New Look at Life on Earth* by James Lovelock. This book explores some of the themes we will be studying in the first unit on Earth's Life Support Systems.

Read through some of the articles on our Geography News blog <https://geographyexcel.wordpress.com/>

### Preparation for September

You will need at least one folder for geography; although you may prefer a different one for human and physical geography to save you bringing the whole thing in each day.

You will need to divide your folder up into the key ideas of each topic. We will go through these key ideas in the first lesson.

The front of your folder should contain information on the course structure and your reading log - both of these will be given to you in the first week.

### Summer Task

*The task that has been set should take you no longer than two hours. The work will be expected to be handed in during the second week of the new year. Subject teachers will specify which lesson to submit the work in.*

#### Overview of task

It is important that Geographers at A Level read around their subject.

Visit <https://geographyexcel.wordpress.com/> where you will find information on a range of different topics.

First - look for the follow by email instructions on the right hand side. Enter your email address. You will be emailed new articles when they appear next year.

Chose five articles on the site that you think will be interesting.

Read the information (including the hyperlinked articles).

Answer the prompt questions - in full.

#### Work to be submitted

The answers to the questions on five of the articles.

## Transition Work

### Bridging the Gap

Before starting the course I would highly recommend purchasing the course textbook and familiarising yourself with Politics through the websites and TV programs listed below.

#### **Course Text Book**

Edexcel GCE Politics AS and A-level Student Book and eBook (Edexcel GCE Politics 2017)

ISBN; 978-1292187020

[https://www.amazon.co.uk/Edexcel-Politics-level-Student-](https://www.amazon.co.uk/Edexcel-Politics-level-Student-eBook/dp/1292187026/ref=pd_lpo_sbs_14_img_2?encoding=UTF8&psc=1&refRID=ECMK6RHCB27T4TXY7330)

[eBook/dp/1292187026/ref=pd\\_lpo\\_sbs\\_14\\_img\\_2?encoding=UTF8&psc=1&refRID=ECMK6RHCB27T4TXY7330](https://www.amazon.co.uk/Edexcel-Politics-level-Student-eBook/dp/1292187026/ref=pd_lpo_sbs_14_img_2?encoding=UTF8&psc=1&refRID=ECMK6RHCB27T4TXY7330)

#### **Websites**

There are excellent newspaper websites, probably the most comprehensive are;

<https://www.bbc.co.uk/news/politics>, [telegraph.co.uk](http://telegraph.co.uk) (Daily Telegraph), [theguardian.com/uk](http://theguardian.com/uk) (The Guardian). [ukpollingreport.co.uk](http://ukpollingreport.co.uk) is an excellent site that shows the most current opinion polls for the main political parties.

#### **TV Programmes**

**Essential;** Question Time most Thursdays BBC1 at 10.45pm

**Recommended** The Daily Politics (BBC2 and BBC Parliament), Sunday Politics (BBC1 and BBC Parliament), This Week (most Thursdays BBC1 after Question Time)

### Preparation for September

Ensure that you have a good system of filing and maintaining your notes in place before you start the course.

Your folder should have;

- File dividers for the different topics you will cover
- Polly pockets for safely storing resources and assessments

Your folders will be checked termly to ensure consistency, you will appreciate an organised folder when you come to revise at the end of the course!

## Transition Work

### Bridging the Gap

*This work is suggested for you to start exploring your subject. Although not formally assessed it will demonstrate your curiosity in the subject and may be referred to in the first term of your course.*

	Unit 1	Unit 2
Read	P. Croft (2005), <i>The Gunpower Plot</i> , History Today <a href="#">Click Here</a>	K Morgan (2017), <i>Trade and the British Empire</i> , BBC History <a href="#">Click Here</a>
Watch	<i>The Devil's Whore</i> , currently available on - demand on All Four: <a href="#">Click Here</a>	The Joanne Freeman lectures will often be referred to throughout the teaching of this topic. You can get ahead by listening to them on You Tube: <a href="#">Click Here</a>
Listen	<i>The Story of the King James Bible</i> , Radio 4, Available on BBC iPlayer <a href="#">Click Here</a>	<i>Hamilton: The Man behind the Musical</i> History Extra Podcast <a href="#">Click Here</a>

### Preparation for September

Students are required to have two separate folders or workbooks: one for Unit 1 (The Early Stuarts and the Origins of the English Civil War) and another for Unit 2 (The American Revolution).

Students will need to print of the appropriate pages of the Specification and stick this at the front of their folders/ workbooks. The link to the specification is here: <http://www.ocr.org.uk/Images/170128-specification-accredited-a-level-gce-history-a-h505.pdf>

For Unit 1, students will need to print pages 23 & 24 and page 48 for Unit 2. Students will need to ensure that their folder/workbook has separate sections for notes, worksheets and assessments to be correctly filed.

### Summer Task

*The task that has been set should take you no longer than two hours. The work will be expected to be handed in during the second week of the new year. Subject teachers will specify which lesson to submit the work in.*

#### Overview of task

1. Read L de Lisle (2017), *Charles I neither Martyr nor Traitor*, *The Story of the English Civil War*, BBC History Magazine, pp 24-29. A copy of this will be provided during the taster day on 27<sup>th</sup> June. Alternatively, a copy can be collected from the 6<sup>th</sup> Form team.
2. You should use the reading as an introduction into the period of the Early Stuarts and the Origins of the English Civil Wars, including what kind of monarch Charles I was and why there were tensions in England during the period that led to conflict and Charles' execution. You will then need to complete a reading journal to show that you have engaged with and carefully thought about the reading.

#### Work to be submitted

Complete the A Level History reading journal document (1 side of A4, on the next page). A physical copy of this will need to be handed in to Miss E Smith, who teaches Unit 1.

## Transition Work

### Bridging the Gap

*This work is suggested for you to start exploring your subject. Although not formally assessed it will demonstrate your curiosity in the subject and may be referred to in the first term of your course.*

Your algebraic skills need to be very strong before you start Year 12 Mathematics. You will see from the Pure A Level Textbook the first chapters overlap with many GCSE topics so these are the topics you should focus on in your preparation. We will spend very little time on Chapter 1 so it is a good idea to work through this chapter in the summer before you start.

#### Websites for support

[www.mymaths.co.uk](http://www.mymaths.co.uk)

[www.bbc.co.uk/schools.gcsebitesize/maths/algebra](http://www.bbc.co.uk/schools/gcsebitesize/maths/algebra)

[www.mangahigh.com/en\\_gb/maths\\_games/algebra](http://www.mangahigh.com/en_gb/maths_games/algebra)

[www.mathsmadeeasy.co.uk/algebra/algebragcse.htm](http://www.mathsmadeeasy.co.uk/algebra/algebragcse.htm)

#### Optional textbook

*Bridging GCSE and A Level Maths Student book (Collins A Level Maths)*

*Starting Advanced Mathematics: The Essential Foundation by Hugh Neill*

#### Optional reading list

*Professor Stewart's Cabinet of Mathematical Curiosities by Professor Ian Stewart*

*The Undercover Economist by Tim Harford*

*Freakonomics by Dubner and Levitt*

### Preparation for September

There will be regular assessments throughout the course and these should be kept in a folder with the dividers for each unit. You must also purchase a Casio fx991 EX Classwiz plus calculator.

### Summer Task

*The task that has been set should take you no longer than two hours. The work will be expected to be handed in during the second week of the new year. Subject teachers will specify which lesson to submit the work in.*

#### Overview of task

##### Instructions

- Work on A4 lined paper
- Write out the question and show all your working.
- You need to do a minimum of 3 questions from each exercise to demonstrate understanding.
- You must show all working
- You must mark your own work from the answers provided.
- When you have finished you must fill in the check list

#### Work to be submitted

Complete Maths and Further Maths booklet. Mark all answers and work on the areas you struggle with.

## Transition Work

### Bridging the Gap

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#### Optional reading list

Professor Stewart's Cabinet of Mathematical Curiosities by Professor Ian Stewart  
 The Undercover Economist by Tim Harford  
 Freakonomics by Dubner and Levitt

### Preparation for September

There will be regular assessments throughout the course and these should be kept in a folder with the dividers for each unit. You must also purchase a Casio fx991 EX Classwiz plus calculator.

### Summer Task

*The task that has been set should take you no longer than two hours. The work will be expected to be handed in during the second week of the new year. Subject teachers will specify which lesson to submit the work in.*

#### Overview of task

#### Work to be submitted

1. Complete the vocabulary matching task.  
(15 minutes)

A complete list of vocabulary and their definitions.

2. Complete the general knowledge information search.  
(5 minutes)

A completed table of general knowledge.

3. How much will your dream 18<sup>th</sup> Birthday Party Cost?  
(1 hour 30 minutes)

Fully cost it out, clearly showing how you got the costs for the component parts.  
 It must be an extravagant party, with entertainment etc.  
 You must try and find cost prices and perhaps charge for tickets to cover the cost.  
 This should be the best party ever organised.

A written account of everything you plan for your party and guests with full costings included.  
 Your plan should be clear and easy to read, which may mean using tables to layout costs and data.

## Transition Work

### Bridging the Gap

*This work is suggested for you to start exploring your subject. Although not formally assessed it will demonstrate your curiosity in the subject and may be referred to in the first term of your course.*

Research and listen to Stravinsky's full score of The Rite of spring.

<https://www.youtube.com/watch?v=YOZmlYgYzG4>

Listen to this collection of Bach Chorales <https://www.youtube.com/watch?v=HPN880-LX70>

### Preparation for September

For September ensure you have a lever arch folder with plastic wallets. Along with this think about what pieces, between grade 6 and 8, that you would like to work on in Year 12.

Invest in purchasing the A Level Music Revision Guide. [https://www.amazon.co.uk/Edexcel-Level-Music-Revision-Guide/dp/1785581724/ref=sr\\_1\\_1?ie=UTF8&qid=1531133738&sr=8-1&keywords=A+level+Music+Revision+Guide](https://www.amazon.co.uk/Edexcel-Level-Music-Revision-Guide/dp/1785581724/ref=sr_1_1?ie=UTF8&qid=1531133738&sr=8-1&keywords=A+level+Music+Revision+Guide)

### Summer Task

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#### Overview of task

Listen to the set works (in the Music Resource on the website). Research into the composer.

Write a paragraph of research about each of the composers.

#### Work to be submitted

A PDF of research on the 9 composers.

## Transition Work

### Bridging the Gap

*This work is suggested for you to start exploring your subject. Although not formally assessed it will demonstrate your curiosity in the subject and may be referred to in the first term of your course.*

Over the summer you can document your day to day life through a photoshoot. Consider taking at least 5 photos a day that capture your environment or special moments. Try to avoid point and shoot photos and instead think about capturing colour, atmosphere and mood through well thought out compositions. Please do not take a hundred selfies of you and your friends - this will not get you an A level!

### Preparation for September

#### PINTEREST

- Make an account and follow HCC Photography Boards
- Locate the board Year 12 Summer Work 2017
- You can still do this work by researching the photographers on Google, even if you don't create a Pinterest account

#### SCHOOL FOLDERS

- Make a photography A level folder in your shared area
- Create two subfolders (Year 12 and Year 13)
- You will be directed by your teacher what to add to these folders as you move through the year.

### Summer Task

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#### Overview of task

Please see guidance and overview in the Support document on the website.

#### Work to be submitted

- Written analysis on each of the four artists you have chosen to explore
- Four photoshoots in the style of the four artists to be brought into college on a Memory Stick / Card

## Transition Work

### Bridging the Gap

*This work is suggested for you to start exploring your subject. Although not formally assessed it will demonstrate your curiosity in the subject and may be referred to in the first term of your course.*

It is an expectation that students will know the names and location of the major bones and muscles within the body. Further understanding of the types of joints and movements that occur will be beneficial.

### Preparation for September

Students are expected to purchase the AQA A-Level text book 1 from the reading list. You should also have a folder with at least 3 distinct sections for your class notes.

### Summer Task

*The task that has been set should take you no longer than two hours. The work will be expected to be handed in during the second week of the new year. Subject teachers will specify which lesson to submit the work in.*

### Overview of task

1. Watch a sporting event. Through analysis of that sport and competitors, split the observation up into three categories and record observations as below:

Physiological	Psychological	Sociological
Eg: energy systems, muscular requirements, components of fitness, training required	Eg: Aggression, motivation, co-operation, teamwork, arousal, stress	Eg: Where did the sport come from? How did it develop? Facilities available? Role models?

2. Answer the following questions as it will support your understanding for the first terms topic:

- Name the four chambers of the heart
- Which chambers are larger? Explain why
- Which side of the heart is larger? Explain why
- Name the main blood vessels that enter and leave the heart
- What are the names of the valves in the heart and where are they located?
- What is the main function of the valves?
- Starting at the venae cava, place the following structures in the correct order that a red blood cell would pass on its journey through the heart.

Aorta	Right atrium	Lungs
Bicuspid valve	Left ventricle	Left atrium
Pulmonary vein	Right ventricle	Pulmonary artery
		Tricuspid valve

### Work to be submitted

Exam on return to college

Record of observations and answers to the questions.

## Transition Work

### Bridging the Gap

*This work is suggested for you to start exploring your subject. Although not formally assessed it will demonstrate your curiosity in the subject and may be referred to in the first term of your course.*

This would be work that would allow students to maintain their knowledge over the summer period or would prepare them for the first weeks of A Level Study.

Please note this work should not be something to formally submit, but something that would allow students to begin reading around the subject and provide a foundation for the first few weeks. It is important to state that some students will change courses based on results and therefore this task may not be possible between confirmation of course programmes and the first day of College.

This work could include:

- Reading a book for the subject
- Useful blogs to read and follow
- Watching suitable films / video clips / flipped learning

### Preparation for September

At least 1 large lever arch folder with dividers to hold all work, which can be separated out into unit areas.

Pupils may wish to have this at home, and bring a smaller working folder in that has the work from the current term / topic being taught. This can then be stored in the larger folder for revision was complete and moved on from.

### Summer Task

*The task that has been set should take you no longer than two hours. The work will be expected to be handed in during the second week of the new year. Subject teachers will specify which lesson to submit the work in.*

### Overview of task

You will need the **AQA Physics A Level Year 1 Student Book**

[https://www.amazon.co.uk/Physics-Level-Second-Year-Student/dp/0198351860/ref=sr\\_1\\_1?ie=UTF8&qid=1498043185&sr=8-1&keywords=aqa+physics+a+level+year+1](https://www.amazon.co.uk/Physics-Level-Second-Year-Student/dp/0198351860/ref=sr_1_1?ie=UTF8&qid=1498043185&sr=8-1&keywords=aqa+physics+a+level+year+1)

Read and complete section 16.1 page 258

Section 16.2 page 260

Section 16.3 page 262

Section 4.1 page 52

To help you and for extra information watch/read these video lessons

<https://www.alevelphysicsonline.com/quantities-and-units>

<https://www.alevelphysicsonline.com/scalars-and-vectors>

<http://www.acoustics.salford.ac.uk/feschools/waves/wavetypes.php#introd>

<http://www.acoustics.salford.ac.uk/feschools/waves/wavetypes2.php>

### Work to be submitted

Answers to these sections must show full working including the formula used and the unit.

The numerical answers are in the back of the book so you can check your answers and correct them.

Section 16.1 page 258

Section 16.2 page 260

Section 16.3 page 262

Section 4.1 page 52

## Transition Work

### Bridging the Gap

*This work is suggested for you to start exploring your subject. Although not formally assessed it will demonstrate your curiosity in the subject and may be referred to in the first term of your course.*

Students should watch the 3-part series about design and manufacture at IKEA - **'Flatpack Empire'** using the following links:

Episode 1 - <https://www.dailymotion.com/video/x6fcf8z>

Episode 2 - <https://www.dailymotion.com/video/x6fcf8y>

Episode 3 - <https://www.dailymotion.com/video/x6fi9b2>

Students are also recommended to view the Heathfield CC Product Design Facebook blog

<https://www.facebook.com/heathfieldccproductdesign/>

They should use this to keep up to speed with the fast-paced world of Design and Technology - spend some time reading / viewing some of the articles posted. Share your views on at least 3 posts that interest you the most.

### Preparation for September

Students will require **basic writing and drawing equipment** including a pencil set (ranging from 3H -3B), pens, eraser, ruler, set square and pair of compasses and a set of colouring pencils. Students will also require a **scientific calculator**. (A personal A5 or A4 'ideas' sketch book is also recommended for those *Eureka!* Moments).

### Summer Task

*The task that has been set should take you no longer than two hours. The work will be expected to be handed in during the second week of the new year. Subject teachers will specify which lesson to submit the work in.*

#### Overview of task

#### Work to be submitted

Please see Product Design Resource on the website

1. **Produce a Task Analysis** (which should include a MindMap) of your chosen contextual theme. This should explore a range of potential opportunities and problems that are connected to the context. **Write your own Design Brief** and make clear your target user. On this sheet, also include **evidence of research** into what you could produce and how other products have met this challenge.
2. Show your creativity by producing a **range of annotated ideas** for your design on an A3 sheet of paper. Include **2D and 3D sketching and other different presentation techniques**.
3. **Draw a final design proposal** showing all elements of the product and including **specific annotations** discussing the materials you are going to use, the different manufacturing methods and how you will join it together. Make comments on the modelling materials and the materials that could be used if you manufactured the product in real life.

**Expected Work:** At least 2 x A3 Sheets

If you have any questions regarding the summer task, please email [rsimmonite@heathfieldcc.co.uk](mailto:rsimmonite@heathfieldcc.co.uk) for support.

## Transition Work

### Bridging the Gap

*This work is suggested for you to start exploring your subject. Although not formally assessed it will demonstrate your curiosity in the subject and may be referred to in the first term of your course.*

Visit The British Psychological Society's Research Digest page (<https://digest.bps.org.uk/>) and sign up for their weekly emails (<http://bps.us11.list-manage1.com/subscribe?u=ef6b58887f03b7e6e6ae5b2b9&id=b626c035bb>). Browse the articles and read one that takes your interest. This will give you an introduction to recently conducted psychological research.

Visit the Mind Changers page (<https://www.bbc.co.uk/programmes/b008cy1j/episodes/guide>), read down the list and listen to one of the programs that interests you. These are about key psychologists and their work and some of the key research we will cover during the A level course.

### Preparation for September

You will need an A4 lever arch folder with 11 dividers to separate notes for each topic within the course. This can be kept at home and will be for you to organise your notes into once we are no longer using them during lessons. We will periodically require you to bring this to lessons to have it checked.

For each lesson you will need an A4 notepad. You should be able to remove each sheet of notes as you will be covering more than one topic at a time and you will need to separate your notes into the relevant section of your folder at home. You may also wish to have a smaller A4 ring binder to bring into lessons that you can store your psychology notes in until we are no longer referring to them in lessons.

### Summer Task

*The task that has been set should take you no longer than two hours. The work will be expected to be handed in during the second week of the new year. Subject teachers will specify which lesson to submit the work in.*

#### Overview of task

Read an article or listen to a program, from the sites linked above, that interests you. Consider why you selected that article or program, what you learnt from reading/listening, why you think the topic covered is important?

#### Work to be submitted

A typed 500 word (approx.) response to the following questions:

- Why did you select the article/program? What attracted your interest?
- What did you learn from reading/listening?
- Why do you think the topic covered is important?

## Transition Work

### Bridging the Gap

*This work is suggested for you to start exploring your subject. Although not formally assessed it will demonstrate your curiosity in the subject and may be referred to in the first term of your course.*

Sociology is everywhere, so you'll be able to see aspects of it in *all* forms of media. Try searching for the following titles and make notes on any videos you watch, try to keep it relevant to the topics taught in Sociology (Education, Culture and Identity, Crime and Deviance, Religion and Beliefs, Globalisation, the Media).

- School Swap documentary
- Stacey Dooley documentaries (BBC iPlayer / Youtube)
- Black Mirror (Netflix)
- Louis Theroux documentaries
- Dispatches documentaries (4OD)
- Panorama documentaries (BBC iPlayer)

### Preparation for September

- You will need an A4 ring folder for sociology
- You will need dividers in your folders for the different topics - there are lots of handouts that need to be kept in order, along with lecture and classwork notes
- You will need to keep notes for Unit 1 (Education) and Unit 2 (Culture and Identity) separate

### Summer Task

*The task that has been set should take you no longer than two hours. The work will be expected to be handed in during the second week of the new year. Subject teachers will specify which lesson to submit the work in.*

#### Overview of task

1. Watch the youtube lecture on the key concepts you will need to understand in order to access A-Level sociology: (find it via the QR code OR by [googling](#)) "the sociological approach Sugden" make detailed notes
- 
2. Read the article "Gender and Identity" which is a PDF document and answer the below questions:
    1. What is a crisis of masculinity
    2. What evidence is there to support Diane Abbott's view that Britain is suffering a crisis of masculinity?
    3. What evidence is there that the crisis has been over exaggerated?
    4. Do you believe that there is currently a crisis of masculinity in Britain? Explain your answer with evidence. (about half a page)

#### Work to be submitted

Notes on the lecture

There will be a test on the lecture content in class

Answers to the questions (can be typed - but please print off to hand in)

## Transition Work

### Bridging the Gap

*This work is suggested for you to start exploring your subject. Although not formally assessed it will demonstrate your curiosity in the subject and may be referred to in the first term of your course.*

- 1) Have a good working knowledge of the following tenses: (how they are formed and why they are used)
  - Present
  - Preterite
  - Imperfect
  - Perfect
  - Future
  - Conditional
- 2) Prepare mind maps/ revision cards on the end of unit vocabulary of Theme 1 (page 26) and Theme 2 (page 54) of the Edexcel A Level Spanish textbook.

### Preparation for September

In an A4 folder please use file dividers and label each one with the following:

- Grammar
- Theme 1: La evolución de la sociedad española
- Theme 2: La cultura en el mundo de habla español
- Theme 3: La inmigración y la sociedad multicultural española
- Theme 4: La dictadura franquista y la transición a la democracia
- Film

### Summer Task

*The task that has been set should take you no longer than two hours. The work will be expected to be handed in during the second week of the new year. Subject teachers will specify which lesson to submit the work in.*

#### Overview of task

The A Level course expects you to have cultural awareness of Spain and Spanish speaking countries. Therefore in order to develop your knowledge on these areas please complete the following:

Produce a list of Spanish speaking countries and their capital cities.  
 Print off a map of Spain showing the main regions and cities of the country.  
 Print off a geographical map of Spain showing mountains and rivers in the target language.

Learn all of the verbs (worksheet on the website)

#### Work to be submitted

Hand in knowledge of Spain work.

Evidence of learning of verbs - you will have a verb test from English to Spanish.

## Transition Work

### Bridging the Gap

*This work is suggested for you to start exploring your subject. Although not formally assessed it will demonstrate your curiosity in the subject and may be referred to in the first term of your course.*

It is an expectation that students will know the names and location of the major bones and muscles within the body. Further understanding of the types of joints and movements that occur will be beneficial.

### Preparation for September

Students are expected to purchase the BTEC SPORT student book 1 from the reading list. You should also have a folder with at least 4 distinct sections for your class notes.

### Summer Task

*The task that has been set should take you no longer than two hours. The work will be expected to be handed in during the second week of the new year. Subject teachers will specify which lesson to submit the work in.*

### Overview of task

1. Select a potential career in the sports industry, E.G. Physiotherapist, personal trainer, osteopath, sports coach, leisure center manager. Research and make notes on the types of qualifications required and the level needed for the career selected. What further qualifications are available to continue professional development?
2. Answer the following questions as it will support your understanding for the first terms topic:
  - Name the four chambers of the heart
  - Which chambers are larger? Explain why
  - Which side of the heart is larger? Explain why
  - Name the main blood vessels that enter and leave the heart
  - What are the names of the valves in the heart and where are they located?
  - What is the main function of the valves?
  - Starting at the venae cava, place the following structures in the correct order that a red blood cell would pass on its journey through the heart.

Aorta	Right atrium	Lungs
Bicuspid valve	Left ventricle	Left atrium
Pulmonary vein	Right ventricle	Pulmonary artery
		Tricuspid valve

### Work to be submitted

Exam on return to college  
Record of observations and answers to the questions.