



# Key Stage 4-5 Transition 2020-21

**Providing a GEMS Holistic Education**



Dear Sixth Form students

The Jumeirah College Key Stage 4-5 Transition Booklet contains specific tasks for you to complete and guidance to support you in your transition to study at Advanced Level.

As you await your final results at GCSE level, it is crucial that you use this booklet to begin to bridge the gap in skills, knowledge and understanding, as well as mind-set and independence, between these distinct key stages. All members of Year 12 will return in September, having spent the preceding two months focusing attention on their selected areas of study for the next academic year, alongside a well deserved break.

Although each subject studied at A level at the College is detailed in this booklet, the expectation is that you will only undertake the preparatory work for the subjects you intend to study from September. However, for students awaiting final grades to determine whether they have achieved the minimum grade requirement, it would be prudent to investigate your alternatives within this booklet.

For several subjects, the information provided is too lengthy to be reasonably contained herein. Therefore, you will find hyperlinks or references to external sites. For external applicants, the electronic version of these resources will be available from the Registrar.

We look forward to welcoming you into the Jumeirah College Sixth Form, following your results announced this coming August, and tracking your continuing success through Key Stage 5.

Yours sincerely,



Mr R Kesterton  
Vice-Principal

# Arabic

**Examination Board:**  
**Available levels:**  
**Entry requirements:**  
**Head of Department:**

**Pearson Edexcel**  
**AS Level (6AR01) / A level (6AR02)**  
**Grade B in GCSE Arabic or Native Speaker**  
**Mrs A Roushdy**

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## Tasks

1. Read a selection of different essays from [www.kamkalima.com](http://www.kamkalima.com)
2. Research at least one topic below and create a digital file of resources in Arabic.
  - The Arabic society in UAE
  - Kinds of Arabic music and arts
  - Arabic speaking cinema
  - Different kinds of Arabic heritage and culture
3. Complete the grammar booklet (e-mailed separately)

## Additional Reference Material:

In preparation for AS/A Level Arabic, it is a very good idea to get into the habit of reading some Arabic news for 5-10 minutes every day or listening to Arabic outside the classroom.

The following websites will help you

- <https://www.alarabiya.net>
- <https://www.skynewsarabia.com>
- <https://www.emaratallyoum.com/>
- [www.kamkalima.com](http://www.kamkalima.com)

Familiarise yourself with the subject specification and look into the students resources and the past papers.

<https://qualifications.pearson.com/en/qualifications/edexcel-a-levels/arabic-2008.html>

# Art and Design

Examination Board:	EDEXCEL
Available levels:	A level 9ADO
Entry requirements:	Grade B in Art and interview with Head of Art
Head of Department:	Miss S Jackson

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## Tasks

### 1. Gallery visits

If possible visit galleries and if not take virtual tours of galleries online and make notes about the different artists you like. You should also look at the website: [www.thestudentartroom.com](http://www.thestudentartroom.com) as you will find many artists and student examples.

You may also want to explore an artist that works in a medium you have not used before, such as film, installations, 3D, photography, graphics

### 2. Compile a resource file of inspiration:

Collect images and produce sketches/outcomes from artist work you find interesting.

### 3. Consider how you will present your summer inspirations to the class in September.

You may want to use a sketchbook, notebook or produce a PowerPoint.

## Success Criteria

You will be able to speak confidently to the class about the work of an artist you had not seen before.

## Submission Date

The first lesson back in September

# Business Studies

Examination Board:	AQA and Edexcel
Available levels:	A level 7132
Entry requirements:	Grade 5 or above in Business Studies
Head of Department:	Mr N De Garis

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Tasks:

**1. The Business team has provided a specific Transition Google Classroom designed to prepare students prior to joining the subject. The code is: 7uh5qmqz**

2. The following link <https://www.aqa.org.uk/subjects/business/as-and-a-level/business-7131-7132> shows the Business Studies A level specification, assessment objectives and overview of examinations. If you have studied Business Studies at GCSE level you will notice that many of the famous business tools, such as the Marketing Mix, will be revisited at A level, this will make you more confident about what you already know. If you are new to Business Studies, you will not be disadvantaged at all and it will all be a pleasant surprise in September. Do familiarise yourself with the topic areas to be studied.

3. Watch ***Dragon's Den*** – if you are not familiar with the show it is a series of programmes featuring entrepreneurs pitching their business ideas in order to secure investment finance from a panel of venture capitalists. Although the wannabe entrepreneurs take their ideas very seriously, as you will see from some of the episodes, the show verges on comedy at times and is highly watchable. You can use You Tube to access most of the episodes that have been aired.

4. Visit the [www.tutor2u.net](http://www.tutor2u.net) website – ***the home of Business Studies, Economics and the Humanities***; this useful learning resource provides a Business Studies Blog, an on-line Revision Clinic, the Biz Quiz and many interesting articles on current business happenings and inspiring stories. Teachers use this website for the resources it creates to assist students with exam board pre-issued research tasks on which some examinations are based.

5. Create a ***portfolio of news articles*** from newspapers and magazines, look for articles reporting on current business related issues linking to the main topic areas of your course: entrepreneurship, marketing, finance, human resources and operations management. This will be shared and discussed with your classmates in Year 12. To be a successful business studies student it is of paramount importance that you keep up to date with current events in the business world and global economy by embracing wider reading and also watching 'quality' news channels such as CNBC, BBC World and CNN.

6. Subscribe to ***'Business Review'*** quarterly publication – this magazine is worth its weight in gold to Business Studies students. Not only does it provide useful tips from Business Studies teachers and examiners on 'How to achieve an A\* in your Unit 1 exam', it also uncannily investigates and reviews companies in the news, months before they appear in examination questions.

8. Watch ***The Apprentice*** – this is a British reality television series in which a group of aspiring young businessmen and women compete for the chance to win a £100,000-a-year job as an apprentice to the British business magnate Lord Sugar. There is also a rather more glamorous version of The Apprentice featuring business tycoon Donald Trump now running in the US that is worth checking out.

# Business Studies– Continued

Examination Board:	AQA and Edexcel
Available levels:	A level 7132
Entry requirements:	Grade 5 or above in Business Studies
Head of Department:	Mr N De Garis

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**9. Listen to current podcasts** on business related issues on the World Business Report on [www.bbc.co.uk/podcasts/series/wbnews](http://www.bbc.co.uk/podcasts/series/wbnews) this provides an analysis of the big global business and economic issues, as they affect consumers, investors and the environment. Some of the stories on this site are a little challenging to understand at first, but the more visits you make to this site the clearer certain business terminology will become – and you can always Google any terms that are causing confusion.

## Reading List

**Core Text for Business Studies Modules** (This can be found in the College library)

**AQA A-level Business Year 1/AS (Wolinski & Coates) ISBN-13: 978-1-4718-3609-1**

**AQA Business for A-level Year 1/AS (SurrIDGE & Gillespie) ISBN-13: 978-1-4718-3613-8**

## Newspapers

The Guardian

The Times

The Daily Telegraph

# Computer Science

<b>Examination Board:</b>	<b>CAIE (Cambridge)</b>
<b>Available levels:</b>	<b>A Level (9608)</b>
<b>Entry requirements:</b>	<b>Grade B in GCSE Computer Science</b>
<b>Head of Department:</b>	<b>Mr I Munshi</b>

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The students will undertake a written theoretical exam and a written programming exam. Students will sit the official AS exams in Year 12 and the A Level exams in year 13, but will undertake a number of mock tests throughout Year 12 to check their progress, and to review their options going into Year 13 if required.

The course will begin in September, but the lessons will be split between theory and programming. During the Summer break students are required to skill build using python in order to prepare for the programming element of the exam. This is essential in preparation for the challenging units. The more the students practise then the stronger their foundations will be upon starting the A-Level. Remember, every programmer has had to start with the basics from step 1.

Practising Python is very important, if you are able to understand the fundamentals then you will be putting yourself in a stronger position to understand the more complex aspects of the exam sooner rather than later. Also, you can experiment and make your own programs such as noughts and crosses, which is a good challenge to undertake once you complete the learning tasks.

## Success Criteria

To learn the fundamentals of Python:

1. Download the latest version of Python 3 (Google it, it is free. 3.8.3 was the latest version in June 2020)
2. You should be familiar with Python or programming in general with another language.
3. Start with video 1 using the following link: [tinyurl.com/y8kqh63f](https://tinyurl.com/y8kqh63f)
4. Copy the video tasks and take your time to understand them. Work from video 1 to 39. Save the files with the task titles and numbers.
5. Follow the instructions and copy the programs then attempt the questions (work through as much as you can, but don't go to the next stage unless you are happy with the first stage).
6. Use Google to search for alternative answers if you get stuck or you want to find out more (there are many websites and video tutorials available)
7. Extension: If you have completed the tasks, then you can try and follow guides to create noughts and crosses in Python, which would set you up to deal with challenges of some A-Level programming.
8. If you have any concerns please email Mr Dela Cruz or Mr Salah  
[genesco.delacruz@jumeirahcollege.com](mailto:genesco.delacruz@jumeirahcollege.com)  
[salah.salah@jumeirahcollege.com](mailto:salah.salah@jumeirahcollege.com)

**Submission Date:** Sunday 6 September 2020

Useful websites to further assist students to the fundamentals of programming:

<http://csunplugged.org/>  
<http://pythonprogramming.net>  
<http://www.pythonschool.net>  
<http://www.python.org>

**Reminder: You will learn the Python programming language for the purpose of the programming exam. However you will need to have a fundamental understanding of pseudocode, structured English and flowcharts.**

# Drama and Theatre Studies

Examination Board:	EDEXCEL
Available levels:	A Level
Entry requirements:	6 in Drama and 6 in English
Head of Department:	Mr R Burke

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## Task

Now is a fabulous time to get watching some amazing productions online! Performances are being constantly updated so this is a good place to find out what is being screened each week

<https://www.playbill.com/article/schedule-of-upcoming-and-current-free-live-stream-broadcasts-com-322823>

<https://www.timeout.com/theatre/best-streaming-theatre-shows-how-to-watch-online>

## We also suggest the following

<https://www.youtube.com/user/ntdiscovertheatre>  
<https://www.oldvictheatre.com/whats-on/2018/a-monster-calls>  
<https://www.shakespearesglobe.com/watch/>  
<https://www.geckotheatre.com/>  
<https://www.franticassembly.co.uk/>

## Undertake independent reading and research. Choose at least one of the following:

- Brecht on Theatre by John Willet
- The Theatre and its Double by Antonin Artaud
- The Theory of the Modern Stage by Eric Bentley
- Theatre of the Oppressed by Augusto Boal
- The Empty Space by Peter Brook
- Frantic Assembly Book of Devising for Theatre

## You may want to familiarise yourself with the following plays that you will study at A Level:

- Attempts on Her Life by Martin Crimp
- Woyzeck by Georg Büchner
- That Face by Polly Stenham



# Economics

Examination Board:	AQA
Available levels:	A Level 7136
Entry requirements:	Grade 6 or above in GCSE Economics
Head of Department:	Mr N De Garis

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## Tasks:

1. The Economics team has provided a specific Economics Transition Google Classroom designed to prepare students prior to joining the subject. The code is: [vruooj5](#)
2. Keep up to date on current affairs; read publications such as The Economist. Keep up to date with the latest developments around the world. Take an interest in specific geographic regions which appeal to you.
3. Take an interest in the financial markets. Using websites like Investopedia, Bullbearings and Bloomberg to investigate stock markets such as the FTSE and Dow Jones. Many websites offer the possibility to set up a simulation share portfolio. Try your hand at trading and try to devise a strategy based on current economic conditions.
4. Explore Tutor2u. As an A-level Economist this site will become a life support mechanism to you and give you access to highly relevant information which will support your course. Start reading the Economics Blog on a daily basis.
5. Read some popular Economics. In recent years there has been a lot of public interest in economics and this has given rise to a number of books such as 'The Undercover Economist' and 'Freakonomics'. Try to read two or three of these popular economics texts to understand the methodology and issues covered by economics.
6. Discover different multi-media. There are many useful websites offering videos and podcasts on economic affairs. Keep up to date by downloading and watching / listening to topical and interesting areas.

## OVERALL

**The key to success in Economics is to know what is happening in the world and why it is happening. Above all be actively interested in current affairs. Develop your own perspective on issues and be prepared to argue your point of view.**

# Economics - Continued

Examination Board: AQA  
Available levels: A Level 7136  
Entry requirements: Grade 6 or above in GCSE Economics  
Head of Department: Mr N De Garis

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## Reading List

### Current Affairs

#### UK Publications

The Economist  
The Times  
The Telegraph  
The Guardian

#### UAE Publications

The National  
Gulf News

#### Financial Markets

[www.investopedia.com](http://www.investopedia.com)  
[www.fool.co.uk](http://www.fool.co.uk)

#### Tutor2u / A Level Support Material

[www.tutor2u.net](http://www.tutor2u.net)  
<http://brynsaseconomicsblog.blogspot.com/>  
<http://econfix.wordpress.com/>  
<http://www.economicshelp.org/>  
<http://www.economicsonline.co.uk/>

#### Popular Economics Books

The Undercover Economist, Tim Harford.  
Freakonomics, Steven Levitt & Stephen Dubner.  
The Armchair Economist, Steven E Landsberg.  
The Economic Naturalist, Robert H Frank.  
Free Lunch , David Smith

#### Multi Media

**Freakonomics Podcast (Subscribe on Itunes)**  
<http://www2.lse.ac.uk/newsAndMedia/>  
<http://www.youtube.com/user/pajholden?ob=0>  
<http://www.youtube.com/user/EconomistMagazine>

# English Language

Examination Board:	AQA
Available levels:	A Level 7702
Entry requirements:	Grade 6 in English Language and Grade 5 in English Literature
Head of Department:	Miss K Trotman

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## Link to specification:

<http://www.aqa.org.uk/subjects/english/as-and-a-level/english-language-7701-7702>

## Language Students

1. To achieve well in English Language you need to be able to evaluate articles that surround contemporary and historical debates about language theory. For example: Why do some people hate slang? Why do certain accents carry more prestige than others? Why does Prince Charles hate American English? Access the bank of articles that are on Google drive <https://drive.google.com/drive/folders/1FPeQs22FZho7MFVlvyGuTly9wv-YoLUY> - you can request access at this link) and read them carefully. Start an English Language folder, that you can bring to your first lesson, in which these are printed and filed. They are the start of your English Language Library.

2. There are five main concepts that you will need to apply in all aspects of language analysis, these are called the 'Language Levels'. You can access these on Google Drive and your summer challenge is to define them and memorise them. Next, find three or four texts from your everyday life, such as leaflets, magazines and posters and try to identify features of the text which link with these language levels. Annotate your three texts.

3. You need to have a good understanding of the parts of speech if you are to complete the very highest levels of linguistic analysis on the English Language Course. Access the 'Knowledge Organiser' shared with you on google drive and learn these key terms. Be prepared for a quiz on them in your first week of study in September.

4. It is important that you are up to date with changing theories and discourse surrounding language. A great place to start is David Crystal's blog (Blog: <http://david-crystal.blogspot.ae/>) you can also access links to twitter feeds which comment on language. Start from Crystal and search from there.

5. You could get a head-start on the English Language reading list:

How Language Works, by David Crystal (2005)  
The Mother Tongue, by Bill Bryson (1990)  
Txtng: The gr8 deb8, by David Crystal (2008)  
The Story of English in 100 words, by David Crystal (2011)  
Dent's Modern Tribes, by Susie Dent (2016)  
Eats, Shoots and Leaves, by Lynn Truss (2003)

# English Literature

Examination Board:	AQA English Literature Specification A
Available levels:	A level 7712
Entry requirements:	Grade 6 in English Literature and Grade 6 in English Language
Head of Department:	Miss K Trotman

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## Link to Specification:

<http://www.aqa.org.uk/subjects/english/as-and-a-level/english-literature-a-7711-7712>

**Request Access for our Transition folder here:** <https://drive.google.com/drive/folders/1xkskTXldz8c166l5owsuLDtllXgsQqdm>

1. To achieve highly at A Level English Literature it is important that you habitually read a wide range of texts from the canon of English Literature and American Literature. Your two main areas for focus are 'Love through the Ages' (English Literature) and 'Texts in Shared Contexts: 1945 to Modern Day' (English and American Literature) and you can access two reading lists for these areas via google drive. These will be critical to your achievement as you progress through the course. Using the reading lists, complete the following task for when you return in September:

*Read a minimum of FOUR texts from the reading lists and make notes as you read. Find out some information about the writer and try to consider the contexts of the texts you choose – for example, when was the text written? When was it set? Which historical time period does it represent? It is vital that you become confident in expressing your own opinions, attitudes and interpretation of the texts you read and that you can contribute to class discussion so be prepared to feedback on these texts in a class discussion in the first week of Year 12.*

2, One of the most important skills required for English Literature at A-level is the analysis, evaluation and interpretation of texts. The majority of this will be examined through texts you will study with your teacher, however, you will also need to be able to write about an 'unseen' text. We would like you to have some practice of this in preparation for September, so please complete the following task:

*Read the The Handmaid's Tale extract and complete the questions provided. You can answer each question in a paragraph, but you must remember to use textual evidence to support your ideas and interpretations. You can type or handwrite the work. Your teacher will take this work from you in September.*

3. Interpretation and adaptation shows that literature is a product of its context and production of reception. These contexts are very important when studying Literature as they can affect how a reader and / or audience are affected by, and will interpret, the text. Complete the following task:

*Watch and review at least two film versions of one of the texts from the Reading List (ideally one that you have read). Evaluate the way in which the films differ depending upon the audience for which they are being aimed. Be prepared to feedback on this in a class discussion in the first week of Year 12.*

# Geography

Examination Board:	AQA
Available levels:	A-Level Geography (7037)
Entry requirements:	Grade B in Geography (Level 6 for external candidates)
Head of Department:	Mrs S White

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## An introduction to the course

It is important to note that this course is linear and will be assessed at the end of year 13, there will be no modular exams (AS exams) in year 12.

## What are the aims of the course?

The GCE Geography AQA course aims to excite students' minds, challenge perceptions and stimulate investigation and analytical skills. The course aims to be flexible and familiar—building on the skills and knowledge students have acquired from GCSE, enjoyable and rewarding, relevant and topical and to prepare students for higher education and employment.

The course has a strong foundation for understanding two main themes: human geography and physical geography. Human geography deals with how people and the environment interact and the way we exist. It also looks at how people and groups move and live in the world around us. Students will have the opportunity to discuss current global and local issues whilst exploring the topics such as global systems and global governance, changing places and population and the environment. Physical geography, on the other hand, is all about the scientific aspects of our world, with an emphasis on how we can manage them. Students will have opportunity to explore topics such as water and carbon cycles, hazards and coastal systems and landscapes.

## Physical Geography

You will be studying the topics of water and carbon cycles, coastal systems and landscapes and hazards across Y12/13

## Human Geography

You will be studying the topics of global systems & governance, changing places and urban environment across Y12/13

## Preparation tasks:

1. Visit the AQA A-level geography website here: <http://www.aqa.org.uk/subjects/geography/as-and-a-level/geography-7037>. Visit the 'specification at a glance' link. You should then be able to research and familiarise yourself with each of the components you will study (listed above).
2. How is the A-level geography course assessed? Create a summary table to show the duration, number of marks available in total, each sub sections exam structure and weighting of each paper. Remember coursework contributes to your overall grade too - consider how this differs from IGCSE coursework?
3. Download past A-level examination papers, inserts and mark-schemes to familiarise yourself with the assessment layout. You could also create a table of command words and their meanings - this will be helpful when you start writing examination responses in Year 12.
4. Join the Royal Geographic Society as a 'young geographer', visit the website listed here: <https://www.rgs.org/membership/young-geographer/>. This will enable you to attend Monday night lectures at the RGS if you visit London or watch high quality recordings of them online and get free online access to academic journals such as Transactions, Area, and The Geographical Journal and also provides a digital subscription to Geographical magazine.
5. Wider reading - immerse yourself in the news and topical issues. You could follow leading geography departments on twitter to develop your geographic knowledge beyond the course requirements. Check out: Oxford University, Cambridge University and UCL's geography department pages. You may also enjoy the following books:
  - *Prisoners of Geography* by Tim Marshall
  - *China's Asian Dream* by Tom Miller
  - *Unruly Places* by Alistair Bonnet
  - *Power of Place* by Harm De Blij
  - *The Revenge of Geography (New York Times bestseller)* by Robert D Kaplan
  - *Notes from a small island* by Bill Bryson

# History

Examination Board:  
Entry requirements:

Edexcel  
Grade 6 in GCSE History or essay based subject  
including English Language)  
Mrs Kelly Storey

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## **Britain Transformed 1918 – 1997**

All supporting information and video links in the three PowerPoint presentations provided

### **Introduction**

Place the 32 events on slides 9-39 into the correct theme (see the table on slide 8). You can use an event more than once if it fits into different themes.

### **British Prime Ministers: Overview**

Read through the brief summary of each PM between 1918 and 1990 on slides 2-11.

Complete the table on slide 12. You can only include 2 key points about each PM, so you need to prioritise what you read

### **Focus Task: Who was David Lloyd George**

Use slides 2-7 to complete the table on slide 8.

Read through slide 9 to answer the following two questions:

- **What do these sources reveal about David Lloyd George?**
- **What impact did David Lloyd George have on politics?**
- Watch the BBC documentary on David Lloyd George hosted by Dan Snow. Make notes and complete the task on slide 10

\* PowerPoint/ History A-Level transition materials have been shared with current JC students

*\*PowerPoints for Britain and the USA will be shared with external students by the Registrar:  
[j.hubbard\\_jcd@gemseducom](mailto:j.hubbard_jcd@gemseducom)*

# History - Continued

Examination Board:  
Entry requirements:

Edexcel  
Grade 6 in GCSE History or essay based subject  
including English Language)  
Mrs Kelly Storey

Head of Department:

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## The USA 1920–55: Boom, bust and recovery

The history of the USA is turbulent and unsettled at best. The time frame we study arguably encompasses some of the most tumultuous times in America's recent past.

The course is loosely broken down into the following themes (The PowerPoint provides some visual clues):

- The economic boom of the 1920s
- The social tensions of the 1920s
- The causes and spread of the Great Depression
- The New Deal under Franklin D. Roosevelt
- The social and economic impact of WWII and the wealth of the 1950s
- The early civil rights movement and McCarthyism

**Your task** is to ***briefly*** review these themes and create a timeline which reflects key people, places and events during the period in question. Annotate the timeline with ***brief*** explanations to be referred back to and built upon during the course. Consider the following questions when conducting your research:

- Which political party was in power and who was the president?
- What actions did the government take to promote economic growth?
- Why did the government fail to provide economic recovery (Depression)?
- What were the key social problems of the day?
- Which groups of people were advantaged and which were disadvantaged?
- Challenge:* Which pressure groups were in operation?
- Challenge:* What key pieces of legislation were passed?

### **Good introductory and background texts to read:**

- Waugh and Wright, *The USA 1919-1941* (Hodder education) [Attached here]
- Hugh Brogan, *The Penguin History of the USA* (Penguin, 1999)

### **Films to aid your research and investigations:**

- Board Walk Empire (HBO Series)
- The Great Gatsby
- The Untouchables
- Public Enemies
- Good Night and Good Luck

### **Documentaries:**

- The Century: America's Time 1920–29* <https://www.youtube.com/watch?v=RN7ftyZigYs>
- Crash Course—US History* [Videos 30-39] <https://www.youtube.com/playlist?list=PL8dPuuaLjXtMwmepBjTSG593eG7ObzO7s>

# Information Technology

**Examination Board:**  
**Available levels:**  
**Entry requirements:**  
**Head of Department:**

**Cambridge**  
AS Information Technology (9626)  
**Grade B in Information and Communication Technology**  
**Mr I Munshi**

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## Tasks

To prepare you for the AS IT course you need to complete the following tasks over the summer. Each task is related to a specific unit of the year 12 course and will help you to build basic underlying knowledge for you to move forward with confidence.

### Part One: Databases

**TASK ONE:** Make **detailed notes** about **who uses databases and why?**

**TASK TWO:** Identify the key elements of both a **Flat File** and **Relational Database** and complete the **key terms table** below:

<b>Keyword</b>	<b>Definition</b>
Primary Key	
Secondary Key	
Data Redundancy	
Data Integrity	
Data Consistency	
Validation	
Verification	

### Part Two: Hardware

#### **TASK THREE**

Computer hardware is an important aspect of working in ICT and, understanding what this is for, will allow you to better design and create systems for specific user needs. Every computer makes use of different peripherals and these allow for the user to input and output data. Create a presentation that covers:

- Find and explain the purpose of 5 INPUT devices for a computer, include images
- Find and explain the purpose of 5 OUTPUT devices for a computer, include images
- Find and explain 3 hard drive storage devices that can be used in a computer.

#### **Submission Date**

Sunday 6 September 2020



# Mathematics and Further Mathematics

Examination Board:	Edexcel
Available levels:	A level 9MA0 and 9FM0
Entry requirements:	Grade A/8 in Mathematics and Grade A*/8 for Further Mathematics
Head of Department:	Mr P Tank

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## Task

### A Level Mathematics

In preparation for A Level Mathematics students are required to consolidate their learning of key concepts from GCSE Mathematics. To accomplish this students will must complete the Bridging Course on the My Maths website. Existing JC students who expressed an interest in taking A Level Mathematics have already been assigned the course to their My Maths account. External students will need to follow the below instructions to access the course;

- log in to [www.mymaths.co.uk](http://www.mymaths.co.uk) login: **jumeirah** password: **south04**
- "Select Curriculum": Classic MyMaths and A Level (England) from the drop down menu on the left
- Within each section in A Level: "Pure", "Statistics" and "Mechanics", select "Bridging from GCSE" and complete each 'lesson' and 'online homework', there are 34 tasks in total

It is essential for any student pursuing A Level Mathematics to have a secure understanding of all of this material before the start of the course. Students will sit a skills assessment in early September, those students not achieving a suitable score may be advised to transfer to another course.

### A Level Further Mathematics

Use the Pearson website below and specifications to research the content of Further Statistics 1, Further Mechanics 1 and 2, and Decision Mathematics 1, in order to decide which combination on applied modules you wish to take; either FS1 and FM1, FM1 and FM2, FS1 and D1 or FM1 and D1.

<https://qualifications.pearson.com/en/qualifications/edexcel-a-levels/mathematics-2017.html>

### Additional Reference Material

- [www.mathsnetalevel.com](http://www.mathsnetalevel.com) (login: **JUMEIRAHC**, password: **c2m9e3r**)
- [www.mymaths.co.uk](http://www.mymaths.co.uk) (login: **jumeirah**, password: **south04**)
- <https://qualifications.pearson.com/en/qualifications/edexcel-a-levels/mathematics-2017.html>
- [www.drfrostmaths.com/videos](http://www.drfrostmaths.com/videos)

### Extra Reading List

The Codebook	by <i>Simon Singh</i>
A History of Mathematics	by <i>Carl B. Boyer</i>
Infinity: The Quest to Think the Unthinkable	by <i>Brian Clegg</i>
E, the Story of a Number	by <i>Eli Maor</i>
The Man Who Loved Only Numbers	by <i>Paul Hoffman</i>
The Man who knew Infinity	by <i>Robert Kanigel</i>
A Brief History of Time	by <i>Stephen Hawking</i>
A Mathematician's Apology	by <i>G. H. Hardy</i>
Fermat's Last Theorem	by <i>Simon Singh</i>
The Millenium Problems	by <i>Keith Devlin</i>
Journey Through Genius: The Great Theorems of Mathematics	by <i>William Dunham</i>
The Music of the Primes	by <i>Marcus du Sautoy</i>
From Here to Infinity	by <i>Ian Stewart</i>
Numberland	by <i>Ian Stewart</i>

# Media Studies

Examination Board:	AQA
Available levels:	A level 2572
Entry requirements:	Grade 6 in English Language
Head of Department:	Ms D Irwin

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As you begin to study the media, it is vital you maximise upon your cultural capital so that you can link media texts to their significance in the world. To do this, you should (if you don't already) start reading and watching the news on a variety of news outlets. Following current affairs on social media is also a good place to start.

## Suggested Tasks:

Read through the specification so you can understand what will be expected of you in Year 12 and 13 <http://www.aqa.org.uk/subjects/media-studies/as-and-a-level/media-studies-7572>.

Think about the types of media you already consume. During the course, you will be studying a range of media from video games and independent films to magazines and television dramas (*all listed in the specification*). Ensure you start looking at media types you don't already consume.

Practical production is a key part of the course (*coursework is 30% of your final grade*). In Year 12, you will be given six briefs to choose from for your final piece. To give you an idea of the tasks you could be set, this year students created horror film trailers and magazines for niche audiences. You could spend the summer getting a head start by practicing your skills. For example, create a short film or a newspaper front page.

## Textbooks:

- AQA Media Studies for A Level Year 1 & AS: Student Book (ISBN: 1911208039) (*This will be provided at the beginning of Year 12*)

# Music

**Examination Board:** Edexcel  
**Available Levels:** A Level 9MU01  
**Entry requirements:** Grade B GCSE Music or voice or instrument to grade 6  
ABRSM standard and grade 5 theory  
**Head of Department:** Ms S Wetherell

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## Task 1

Prepare a solo performance (Grade 7) on an instrument of your choice. Your performance will be assessed using A Level performance criteria during the first week of the term. You are free to choose a piece in any style and it is recommended that you perform a piece you are comfortable with. However, please bear in mind that you will be assessed on the following areas: Technique, Accuracy, Fluency, Expressive Control, Style and Context.

## Task 2

Your set works for A Level Music are below. All can be found on YouTube. Listen to each piece and make brief notes on the key instrumentation and style of each piece.

Area of study	Set works
<b>Vocal Music</b>	<ul style="list-style-type: none"><li>• J. S. Bach, Cantata, Ein feste Burg</li><li>• Mozart, The Magic Flute</li><li>• Vaughan Williams, On Wenlock Edge</li></ul>
<b>Instrumental Music</b>	<ul style="list-style-type: none"><li>• Vivaldi, Concerto in D minor, Op. 3 No. 11</li><li>• Clara Wieck-Schumann, Piano Trio in G minor, Op. 17: movement 1</li><li>• Berlioz, Symphonie Fantastique</li></ul>
<b>Music for Film</b>	<ul style="list-style-type: none"><li>• Danny Elfman, Batman Returns</li><li>• Rachel Portman, The Duchess</li><li>• Bernard Herrmann, Psycho</li></ul>
<b>Popular Music and Jazz</b>	<ul style="list-style-type: none"><li>• Courtney Pine, Back in the Day</li><li>• Kate Bush, Hounds of Love</li><li>• Beatles, Revolver</li></ul>
<b>Fusions</b>	<ul style="list-style-type: none"><li>• Debussy, Estampes</li><li>• Familia Valera Miranda, Caña Quema</li><li>• Anoushka Shankar, Breathing Under Water</li></ul>
<b>New Directions</b>	<ul style="list-style-type: none"><li>• Cage, Three Dances for Two Prepared Pianos</li><li>• Kaija Saariaho, Petals for Violoncello and Live Electronics</li><li>• Stravinsky, The Rite of Spring</li></ul>

# Photography

Exam board: EDEXCEL  
Entry requirements: Grade C in Art and Design or a discussion with Miss Jackson  
Head of Department: Miss S Jackson

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## Tasks

### 1. Gallery visits

If possible visit galleries and if not take virtual tours of galleries online and make notes about the different artists you like. You should also look at the website: [www.thestudentartroom.com](http://www.thestudentartroom.com) as you will find many artists and student examples. You may also want to explore an artist that works in a medium you have not used before, such as film, installations, 3D, photography, graphics and make notes about the different artists and photographers you like.

### 2. Compile a resource file of inspiration:

Collect postcards and leaflets and take as many interesting photographs as you can .

### 3. Consider how you will present your summer inspirations to the class in September.

You may want to use a sketchbook, notebook or produce a PowerPoint.

### 4. Take a minimum of 10 photographs exploring the theme “Unusual perspectives”

## Success Criteria

You will be able to speak confidently to the class about the work of an artist you had not seen before.

## Submission Date

The first lesson back in September

## Reading List

Look at websites for your local town and see the ‘**What's On**’ sections

# Physical Education

Examination Board: AQA  
Available levels: AS and A level  
Entry requirements: Level 6 in Physical Education and Level 6 in Science  
Head of Department: Miss E Davies

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## ***Please complete the following task:***

Prepare a sporting profile of yourself using the following tasks;

Using the specification link below:

1. Identify which sport you would consider to be your strongest (it **must** be listed on the specification)

**<http://www.aqa.org.uk/subjects/physical-education/as-and-a-level/physical-education-7582>**

2. For **this sport**, read the criteria and decide what score you think you would get for:

Area Of Assessment 1 (out of 15)  
Area Of Assessment 2 (out of 15)  
Area Of Assessment 3 (out of 15)

Then add these three scores up to give total out of 45

3. After this evaluation, **set targets** as to what you would need to do to move up to the next band for each of the sections.

You may want to use a table like below:

Sport	A.O.1	A.O.2	A.O.3	Total/45	Targets
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You will then use these targets to focus on what you need to improve, when you are training or competing in this sport.

**If you have any questions or concerns over the summer break please do not hesitate to contact Miss Davies (Head of PE) via email; [e.davies\\_jcd@gemsedu.com](mailto:e.davies_jcd@gemsedu.com)**

# Politics

Examination Board:  
Entry requirements:

Edexcel  
Grade 6 in an essay based subject including  
English Language  
Mrs Kelly Storey

Head of Department:

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## UK Politics

Please note that these tasks are accompanied by a booklet entitled *UK Transition Pack*.

### Task One – People in Politics

Look at the photographs in the booklet of British politicians. You must identify who they are, which party they belonged to and whether or not they were Prime Minister (PM) or Leader of Her Majesty's Opposition (HMO). Get your family involved in this task – your parents will remember many of these faces, and some of them might be better suited even to your grandparents!

### Task Two – News and Elections

Politics is a subject which cannot be unplugged from news and current affairs. Twitter is seen by some to be the future of Politics – it is used by journalists, politicians and politicians alike to share news and information as well as discuss political issues. I would advise that you create yourselves Twitter accounts as soon as possible and follow the below users for Political information and news:

- [@Britainelects](#) (for news and updates on all things electoral in the UK)
  - [@BBCNews](#) / [@SkyNews](#) (or any other news station of your choice – or even more than one!)
  - [@bbcquestiontime](#) (the UK's most-watched political talk-show: BBC Question Time)
  - [@BorisJohnson](#) (prime minister)
  - [@POTUS](#) (the president of the United States of America)
  - [@DExEUgov](#) (The Department for Exiting the European Union)
- And a range of political journalists like Julia Hartley-Brewer, Owen Jones, etc.

Your second task is to keep an eye on these Twitter accounts (as well as wider sources – the news and shows on TV, newspapers and others) over the Summer holidays and make a note of any particularly interesting news that is relevant to Politics in the UK. You may even find some stories which are interesting internationally, particularly if you choose to follow Donald Trump.

### Task Three – British Political History

Create an A3 or A4 Political History timeline for the UK. On your timeline you should include a number of features such as (but not necessarily ONLY these); the dates the major UK political parties were founded, the signing of the Magna Carta, the opening of the House of Commons, the introduction of the Bill of Rights, the Act of Union, Representation of the People Acts and European Communities Act. This will be the focus of the first topic we will study next year.

# Politics

**Examination Board:**  
**Entry requirements:**

**Edexcel**  
**Grade 6 in an essay based subject including**  
**English Language**  
**Mrs Kelly Storey**

**Head of Department:**

## American and Comparative Politics

Please note that these tasks are accompanied by an academic article and a copy of the US Constitution.

US Politics is literally the BEST! The system is complex, the rules arcane and the outcome addictive. Trump's wanton disregard for political convention will be *missed* (by some more than others), but the divided nature of country and government will sadly endure. The best way to get into politics is to watch it. This summer as you prepare to study American politics the best thing you can do is:

Watch this video on the US Constitution: <https://www.youtube.com/watch?v=1xklT6515RI> (our first topic) and note down the key points it raises about how the Constitution works and what its 'difficulties' are. We will pursue these in class in September.

To support this task, please also read the article *Understanding the Constitution* by Amar and Kmiec adding additional notes to the points you have raised from the video (you have also been provided with a copy of the Constitution to help you).

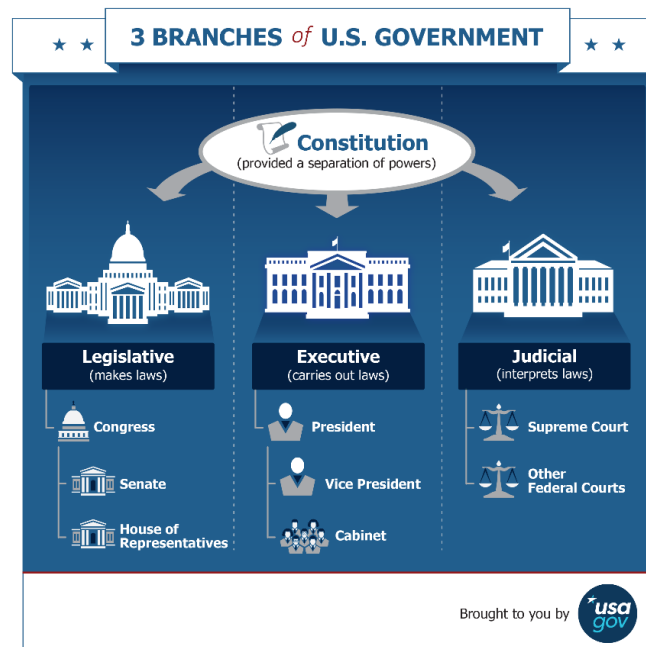
Knowledge is key: Annotate the government chart with the key political leaders in each branch:

The President

The top tier cabinet members: Defense, State, Treasury and Attorney General

The leaders in the House and Senate

The Supreme Court Justices (and whether they are liberal or conservative)



Get into the habit of watching MSNBC news, Morning Joe, Meet the Press and CNN to keep up with current events (fresh and contemporary examples are the key to success in politics). The late night shows also do a very good, and funny job here (Stephen Colbert, Trevor Noah and Jimmy Kimmel). Look also at political think tanks like the Hoover Institute and the Brookings Institution.

Follow the Democratic and Republican 2020 nominee on social media (November will be here before you know it). Watch the highlights of the Republican and Democratic National Conventions in August (where both parties Presidential candidates are officially announced). It will show you the dominance of media and money in US politics.

# Design and Technology: Product Design

Examination Board:	AQA
Available levels:	A level
Specification:	Product Design (3D) 7552
Head of Department:	Mr G Parkin

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## SketchUp or AutoDesk Fusion 360 (*Recommended*)

Practise using either **Sketchup free** (browser version, no download required) OR **Fusion360** (also free) - both work on Windows and Mac but using a tablet is not recommended. *Links at bottom of page*

Work through the various tutorials available on YouTube starting at the level you are most comfortable with (type Sketchup 2020 for the latest version videos) work through the more advanced commands. If you produce a viable model we can aim to 3D print it.

## Documentaries (*Recommended*)

On Youtube watch:

- 1) Zoe Laughlin - How To Make: The Trainer
- 2) Zoe Laughlin - How To Make: The Toothbrush
- 3) Zoe Laughlin - How To Make: Headphones
- 4) Megafactories (any of the episodes that interest you)
- 5) How it's made (any of the episodes that interest you)

During the course you will be expected to undertake independent product case studies to find out how and why particular products are made, these studies will be needed to help inform the written essays. If you are having issues finding the videos please email Mr Parkin, [g.parkin\\_jcd@gemsedu.com](mailto:g.parkin_jcd@gemsedu.com) .

## Product Studies (*Optional*)

Start thinking about looking into everyday products. If possible, and with permission, disassemble an old or broken product.

Look at things like the materials it is made from, research what processes might have been used to manufacture it, what technologies are used in the product and why they are there, identification of the main product functions, who the target market for the product is and any other facts you find interesting.

## Reading (*Optional*)

Look into current issues relating to Product Design (sometimes called Industrial Design or 3D Design) on the internet or in publications. Look at current style trends for products, what are currently popular products, new product categories (eg. VR), new and emerging technologies, environmental issues, new manufacturing methods, etc.

## Sketching (*Optional*)

You will be spending a lot of time documenting your ideas in sketchbooks, so how you display ideas will be crucial in the development of your products. Spend time practising your sketching skills by drawing products from your home or develop new product concepts by looking at existing products.

Use both freehand and isometric sketching and apply colour using shading techniques where appropriate.

## Websites

- [www.sketchup.com/plans-and-pricing/sketchup-free](http://www.sketchup.com/plans-and-pricing/sketchup-free)  
(Click 'Start Modelling' > Click 'Sign in with google' - select school gmail email address to login)
- [www.Autodesk.com/products/fusion-360/students-teachers-educators](http://www.Autodesk.com/products/fusion-360/students-teachers-educators)  
(Only sign up for a free educational license NOT the trial - instructions available on the webpage from link)
- [www.youtube.com](http://www.youtube.com)
- [www.pddnet.com](http://www.pddnet.com)
- [www.designcouncil.org.uk](http://www.designcouncil.org.uk)



# Psychology

Examination Board:	AQA
Available levels:	A level 7182
Entry requirements:	Grade 6 in English Language and Grade 6 in Psychology (or if not taken then 6 in science)
Head of Department:	Ms L Johnson

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Welcome to the inspiring, exciting world of Psychology. Please complete the following tasks in order to ensure that you are ready to begin the course with your eyes wide open.

## Tasks

- Establish a “**Psychbook**”. Over the summer months, collect a minimum of 6 articles of psychological interest. They can be concerned with the A Level topics you will cover in the first year of study (memory, childhood development, biopsychology, psychopathology, conformity, obedience or research methods) or simply psychology-based. Keep these in a personalised scrapbook next to the date of collection and be ready to show your new class in September. This book will be used throughout the A Level course.
- Follow the Psychology department on Twitter by searching for [@JCD\\_SocialSci](https://twitter.com/JCD_SocialSci)
- Become familiar with the “**Psychology Review**” in the Jumeirah College Library. This periodical will provide you with an insight into all of the topics of A Level Psychology.
- Explore the titles in **reading list** below. There are no course texts here, but instead books, movies and websites that current Psychology students recommend.

## Reading List

### Movies

- One Flew Over The Cuckoo’s Nest
- A Dangerous Method
- A Beautiful Mind
- 12 Angry Men
- Split

### Books

- *1984*– George Orwell
- *The Man Who Mistook His Wife For A Hat* - Oliver Sacks
- *Whoever Fights Monsters* - Robert Ressler
- *God’s Debris* - Scott Adams

### Websites

- [www.all-about-psychology.com/a-level-psychology.html](http://www.all-about-psychology.com/a-level-psychology.html)
- [www.bps.org.uk](http://www.bps.org.uk)

# Sociology

Examination Board:	AQA
Available levels:	A level 7192
Entry requirements:	Grade 5 in English Language
Head of Department:	Ms L Johnson

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**Sociology is the study of society, including patterns of social relationships, social interaction, and culture . Please complete the following tasks in order to ensure that you are ready to begin the course with your eyes wide open.**

## Tasks

- Follow the Psychology & Sociology department on Twitter by searching for @JCD\_SocialSci
- Explore the titles in the **reading list** below. There are no course texts here, but instead books that our department recommends.

## Reading List

### General:

- The Establishment and how they get away with it - Owen Jones
- The Communist Manifesto - Karl Marx
- To Kill a Mockingbird - Harper Lee

### Family:

- Toxic Childhood - Sue Palmer

### Education:

- Deschooling Society - Ivan Illich
- Dumbing us down: the hidden curriculum of compulsory schooling - John Taylor Gatto

### Beliefs in Society:

- Sacred Canopy - Peter Berger

### Crime and Deviance:

- Outsiders - Howard Becker

# Spanish

Examination Board:  
Available levels:  
Entry requirements:  
Head of Department:

AQA  
AS level 7691  
Level 6 in Spanish or Native Speaker  
Ms F Temple-Smith

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## Tasks

1. Read the new AS specification on the AQA website, to familiarise yourself with the course before September. You will be tested on your understanding of the Specification in September. The PDF can be found at this link:

<https://www.aqa.org.uk/subjects/languages/as-and-a-level/spanish-7691>

2. Read the AS Transition booklet and complete the grammar exercises in the revision booklet.
3. In preparation for AS Spanish, it is a very good idea to get into the habit of reading some Spanish news for 5-10 minutes every day. This will be invaluable for vocabulary.

The following site provides an overview of all the Spanish news headlines, with categories such as; world news, national news, sport, health, entertainment, business etc. You can hover over the headline to read a synopsis or click on the link to read the full article.

**Translation and summarisation skills are very important at A Level, so please choose one article per week to read and summarise in Spanish during the holidays.**

[www.newsmap.jp](http://www.newsmap.jp) select 'Spain'.

4. Watch the latest news in Spanish <http://www.rtve.es/>, or even just the weather forecast <http://www.rtve.es/eltiempo/>. Take in some culinary delights with Spanish Master Chef <http://www.rtve.es/television/masterchef/> or some football <http://www.rtve.es/deportes/champions-league/>

5. Set Spanish as the default languages on your devices and on social media sites such as Facebook.