



READING SCHOOL

SIXTH FORM READING LIST AND
SUMMER WORK 2019

Headmaster
Mr AM Robson

Head of Sixth Form
Mr C Nicholas

Heads of Year 12 and 13
Mr D Whitehorn and Mr A Lloyd

Reading School, Erleigh Road, Reading, RG1 5LW

Telephone: 0118 9015600

admissions@reading-school.co.uk

www.reading-school.co.uk

SUBJECTS

- **Art**
- **Biology**
- **Chemistry**
- **Computer Science**
- **Classical Civilisation**
- **Drama and Theatre**
- **Economics**
- **English**
- **EPQ**
- **Geography**
- **History**
- **Latin**
- **Maths**
- **MFL – French, German, Spanish**
- **Music**
- **Physics**

ART

Please read through all information and parts one and two so that you meet what is being asked of you.

View some live art in the form of a visit to an exhibition, collection, museum or space, and select one two-dimensional artwork you particularly like to focus on further. Bring a notebook/phone/camera to record information about the work.

Part 1

Produce a brief presentation using an appropriate tool (e.g. *PowerPoint, Google Slides etc.*) that clearly includes the following:

- information about where you saw the work
- one hi-res image of the work
- name, date, media and dimensions of the artwork
- artist name, biographical dates and brief info on what you think is important to explain to others to further their understanding

Submit via email to: acreegan@reading-school.co.uk before your first Art lesson (*if over 2MB send me a link to OneDrive/Drive/Dropbox etc.*)

Part 2

Produce your own three-dimensional piece responding to the two-dimensional artwork you chose.

Bring your completed work to your first art lesson.

BIOLOGY

Students must purchase the following lab book:

Title	Author	Publisher	ISBN
OCR A level Biology A Lab Book		Pearson	978-1-292-20026-2

Students may choose from 3 publishers. For A Level you will need to buy either years 1 and 2 separately or together. All of the textbooks are available as reference copies in the LRC.

Required Text Books – Either:

Title	Author	Publisher	ISBN
OCR AS Biology Student Book	Sue Hocking Frank Sochacki Mark Winterbottom	Pearson	978-1-4479-9079-6
OCR A2 Biology Student Book	Sue Hocking Frank Sochacki Mark Winterbottom	Pearson	978-1-4479-9080-2

Or:

Title	Author	Publisher	ISBN
A Level Biology A for OCR Student Book	Jo Locke Paul Bircher	OUP	978-0-19-835192-4
A Level Biology A for OCR Year 1 and AS Student Book	Jo Locke Paul Bircher	OUP	978-0-19-835191-7
A Level Biology for OCR Year 2 Student Book	Jo Locke Paul Bircher	OUP	978-0-19-835764-3

Please note: We will provide you with online access for the OUP book for year 12 and 13.

Or:

Title	Author	Publisher	ISBN
OCR A Level Biology Student Book 1	Adrian Schmit, Richard Fosbery, Jenny Wakefield-Warren	Hodder Education	978-1-47-180915-6
OCR A Level Biology Student Book 2	Adrian Schmit, Richard Fosbery, Jenny Wakefield-Warren	Hodder Education	978-1-47-182708-2

In addition, you may want to look at these titles for **bridging the gap between GCSE and A level** and to help with key skills (they will also be available as reference copies in the LRC)

Title	Author	Publisher	ISBN
Head Start to Biology A level		CGP	978-1-78294
A good GCSE book e.g. Complete Biology	Ron Pickering	OUP	978-0-19-914739-7
A level Biology Essential Maths skills		CGP	978 1 84762 323 2
Maths Skills for A Level Biology	James Penny	OUP	978-1408521182
Skills in Biology (2 nd Edition)	Greenwood, Shepherd, Allan and Butler	Biozone international limited	978-1877329-71-5
OCR A-level Biology Student Guide: Practical Biology	Richard Fosbery	Hodder Education Ltd	9781471885617

Organisation of your files at the start of the course will help with the transition to A level. We suggest you do the following and add them to your files prior to the start of the course:

The OCR Biology A specification can be found on:

<http://www.ocr.org.uk/Images/171736-specification-accredited-a-level-gce-biology-a-h420.pdf>

- We suggest you print pages **5-32, 60-67** and **70** from the OCR Biology A specification so we can refer to these during year 12.

Other useful resources are the practical, mathematical and drawing skills handbooks:

<https://www.ocr.org.uk/Images/294468-practical-skills.pdf>

- We suggest you print pages **34, 49, 54, 65** and **66** from the practical skills handbook for reference and add them to your file

<https://www.ocr.org.uk/Images/294471-mathematical-skills.pdf>

- We suggest you print pages **58-60** from the Mathematical skills handbook for reference and add them to your file

A document to help with the transition to A level is:

<http://www.ocr.org.uk/qualifications/by-subject/biology-related/maths-for-biology/>

- We suggest you work through the tutorial and try the questions on MO.1 (units) and add them to your file

<https://www.ocr.org.uk/Images/251799-drawing-skills-booklet.pdf>

- We suggest you print pages **5, 6 and 8** from the drawing skills handbook for reference and add them to your file

A very useful document for transition to A level is the Edexcel transition guide and we suggest you read through the key concepts summary sheets on **cells, molecules and human biology** on pages 21-24, 34, 35, 43 and 44. There are also useful worksheets and practice questions.

<https://qualifications.pearson.com/content/dam/pdf/A%20Level/Biology/2015/teaching-and-learning-materials/transition-guide.pdf>

Suggested tasks to prepare for your practical work:

- **Produce a glossary for the following key words and them to your file:** accuracy, anomaly, calibration, chance, control experiment, control group, control variable, correlation, dependent variable, errors, evidence, fair test, hypothesis, independent variable, null hypothesis, precision, probability, random distribution, random error, raw data, repeatability, reproducibility, resolution, systematic error, true value, validity.

For reference you can use the OCR practical skills handbook p49

- **Complete the virtual labs on dependent and independent variables on** http://www.mhhe.com/biosci/genbio/virtual_labs_2K8/
- **Complete the virtual labs on osmosis and enzymes** http://www.phschool.com/science/biology_place/labbench/index.html

Useful Websites

Royal Society of Biology website includes a dedicated student section.

www.rsb.org.uk

Learn Genetics from Utah University has lots of interactive resources to explore, for example how we clone mice or make glow in the dark jelly fish.

<http://learn.genetics.utah.edu>

Your genome. Discover more about DNA, genes and genomes, and the implications for our health and society.

<http://www.yourgenome.org/>

The Big Picture is an excellent publication from the Wellcome Trust. One of the first topics you will study in year 12 is the cell.

<http://bigpictureeducation.com/cell>

DNA from the beginning is full of interactive animations that tell the story of DNA from its discovery through to advanced year 13 concepts. One to book mark!

<http://www.dnaftb.org/>

Howard Hughes medical institute – try the virtual labs, also available as an app.

<http://www.hhmi.org/biointeractive>

Mcgraw-Hill Virtual labs and animations

http://www.mhhe.com/biosci/genbio/virtual_labs_2K8/

<http://highered.mheducation.com/olc/dl/120060/ravenanimation.html>

3D models

<https://www.biozone.co.uk/weblink/ocr-1-3dmodels/>

Useful Videos and Apps

Crash course biology has 40 Videos relevant to the A level course with over 16.7 million views!

<http://thecrashcourse.com/courses/biology>

<https://www.youtube.com/playlist?list=PL3EED4C1D684D3ADF>

Anatomy and physiology

https://www.youtube.com/playlist?list=PL8dPuuaLjXtOAKed_MxxWBNaPno5h3Zs8

Ecology

https://www.youtube.com/playlist?list=PL8dPuuaLjXtNdTKZkV_GiYXpV9w4WxbX

These animations will be helpful to review throughout the course:

<http://www.sumanasinc.com/webcontent/animation.html>

Useful free Apps

Gene Screen – Cold Spring Harbor Laboratory

Click and Learn – Howard Hughes Medical Institute

HHMI Bulletin - Howard Hughes Medical Institute

Hudson Alpha iCell – Hudson Alpha Institute for Biotechnology

Human Anatomy – visible body

BBC Earth – the story of life

Encode – Nature

Virtual cell - National Science Foundation

Bodyxq – the Heart

CHEMISTRY

Required Textbooks:

Title	Author	Publisher	ISBN
A Level Chemistry for OCR A	Rob Ritchie David Gent	OUP	978-0-198-35197-9

Optional books:

You may find this book useful for extra work on calculations outside of lessons.

Title	Author	Publisher	ISBN
Calculations for A Level Chemistry	Eileen Ramsden	Fourth Edition 2014	978-0-7487-5839-5

If you have not done a separate GCSE in Chemistry a very useful publication to buy is Headstart for AS Chemistry. This will give the opportunity to practice calculations that are necessary for AS Chemistry.

Title	Author	Publisher	ISBN
Headstart for AS Chemistry			978-1-78294-280-1

You may also find this link to 8 Transition Guides which help with material other than calculations.

<http://www.ocr.org.uk/qualifications/as-a-level-gce-chemistry-a-h032-h432-from-2015/>

The following AQA transition guide also provides some practice questions that may help you to prepare for the start of the course. Particular attention should be given to pages 20-30. You should check you are comfortable with all these topics before starting the course.

<http://filestore.aqa.org.uk/resources/chemistry/AQA-7404-7405-TG.PDF>

CLASSICAL CIVILISATION

For September you will need to have bought a copy of the following books:

Title	Author	Publisher	ISBN
OCR Classical Civilisation AS and A Level Components 21 and 22 Greek Theatre and Imperial Image	Robert Hancock-Jones, James Renshaw, Laura Swift	Bloomsbury	9781350015111
OCR Classical Civilisation AS and A Level Component 11 – The World of the Hero	Sally Knights		978-13500-1507-4
Homer's 'The Odyssey'	Translated by E. V. Rieu Revised by D.C.H Rieu	Penguin	978-01404-4911-2
Virgil's 'The Aeneid'	Translated by D West		978-01404-4932-7
OCR Classical Civilisation A Level Components 31 and 34 – Greek Religion and Democracy and The Athenians	Athina Mitropoulos, Tim Morrison, James Renshaw, Julietta Steinhauer	Bloomsbury	978-1350 02099-3

COMPUTER SCIENCE

It would be advantageous if students were able to program in either Python, Java or C#, extending their knowledge to object oriented programming. There is no pre-requisite for students to be able to program before they start the course as the syllabus covers all the required material, yet it would certainly be beneficial.

Other aspects that require a high level of appreciation are the moral, ethical, legal and cultural implications of computer science and technology. It is vital that students read widely on the current and historical events that are often reported on.

Required Textbook – Purchase this

Title	Author	Publisher	ISBN
AQA AS and A Level Computer Science	PM Heathcote and RSU Heathcote	PG Online	978-1-910523-07-0

Additional in-depth useful Textbooks (with many examples)

Title	Author	Publisher	ISBN
A Level Computer Science for AQA Unit 1	Kevin Roy Bond	Educational Computing Services Ltd	978-0-9927536-1-0
A Level Computer Science for AQA Unit 2	Kevin Roy Bond	Educational Computing Services Ltd	978-0-9927536-2-7

Additional useful Textbook

Title	Author	Publisher	ISBN
AQA A-Level Computing Student Book	Bob Reeves	Hodder Education	978-1-4718-3951-1

Download the syllabus specification from here:

<http://filestore.aqa.org.uk/resources/computing/specifications/AQA-7516-7517-SP-2015.PDF>).

It is always useful to become familiar with some of the terms.

Reviewing the administrative aspects (within the specification) of the course would ensure a good understanding of the expectations. There is a coursework component that provides 20% of the qualification marks, so reviewing *4.14 Non-exam assessment - the computing practical project* and *6 Non-exam assessment administration* is essential.

DRAMA AND THEATRE

We study the AQA specification which can be accessed here: <http://www.aqa.org.uk/subjects/drama/a-level/drama-and-theatre-7262>. Please have a read through the specification so you have an overview of what we will be covering over the two year course.

Required Textbooks:

Please purchase the following texts, read both plays and, most importantly, the introduction and commentary in these editions, both of which provide excellent background information to these plays. In addition, these editions include a list for further reading which you may find helpful.

Title	Author	Publisher	ISBN
Hedda Gabler	Henrik Ibsen	Methuen Student Editions	0-413-77070-2
Our Country's Good	Timberlake Wertenbaker	Methuen Student Editions	978-0413-6923-06

The following books will be most helpful background reading for 'Our Country's Good'.

Title	Author	Publisher	ISBN
Our Country's Good	Max Stafford Clark	Nick Hern Books	978-1848-42043-4
The Fatal Shore	Robert Hughes		
The Playmaker	Thomas Keneally	Simon & Shuster	0-671-885511-1
Letters to George	Max Stafford Clark	Nick Hern Books	978-1-85459-317-7

The prescribed practitioners we will be studying are likely to include Steven Berkoff, Bertolt Brecht, Complicite, Frantic Assembly, Konstantin Stanislavski. There are many published and online sources where you can find information about these practitioners, and it would be highly advisable to read about them.

ECONOMICS

Economics is an academic discipline. Its fascination stems from the fact that it uses economic theory and concepts to explain events in the real world.

This means that students do need to be informed about economic and business news but it is not sufficient simply to be interested in current affairs. One thing we always say to students is 'if you write an answer to an economics question that you could have written before you studied economics then it is not going to be a good economics answer.'

There are lots of economics websites out there, but a good place to start is the BBC <http://www.bbc.co.uk/news/business>. The Economist is also great but most articles are only available on subscription, although the school does have access via the LRC.

For discussions of economics and economic issues there are multiple economics blogs. Tim Harford is great <https://www.ft.com/tim-harford>. Students would also benefit from listening to Economics with Subtitles (a BBC radio series available on the BBC website)

In terms of subject content for A Level, the A2 specification can be found at <http://www.ocr.org.uk/qualifications/as-a-level-gce-economics-h061-h461/>.

Useful content to inform and extend your economics understanding of what you will be expected to know and understand is at tutor2u <https://www.tutor2u.net/economics/> (especially the 'blog' but also the reference section) and <http://www.economicshelp.org/>.

Many of our students also make extensive use of the A Level specific videos on <https://www.youtube.com/user/EconplusDal>.

Finally, you should definitely read p.2-16 in the recommended textbook below as well as other sections in the book entitled 'Thinking like an economist'

Required Textbook

Title	Author	Publisher	ISBN
Economics	Alain Anderton	6 th Edition* Anderton Press	978-0993-1331-07

(*Please do not purchase an earlier edition as it will not cover all the content of our specification)

EPQ

The EPQ will be new to everyone. You might find it helpful to read up to page 14 of Managing the EPQ to ensure that this is the right qualification for you:

http://cdn.cityandguilds.com/ProductDocuments/Skills for Work and Life/Employability Personal and Social Development/2935/Additional_documents/Managing%20Extended%20Projects.pdf

The main thing is to think of potential subject areas that you might wish to explore further in your project.

EPQ Textbooks

There are no compulsory book purchases for the EPQ. Think carefully about whether you could borrow books from libraries for your title before you buy them as often they can be ordered in.

ENGLISH

A Level students will follow the OCR specification H472; full details are available here: <http://www.ocr.org.uk/qualifications/as-a-level-gce-english-literature-h072-h472-from-2015/>

Students can prepare themselves for the course using some of the resources found here: <https://www.ocr.org.uk/qualifications/as-a-level-gce-english-literature-h072-h472-from-2015/delivery-guide/>

It would be helpful if students could purchase their own new or used copies of the specific editions (where possible and readily available) of the texts; Kindle or other e-reader versions are not recommended because students benefit from being able to make extensive notes in the texts. If students need the Department to supply texts, we would appreciate being informed by the Sixth Form Registration day in August 2019 at the latest.

What we would like you to do before the course starts

We expect students to have prepared thoroughly for the course and have read at least all of the texts marked with a * by the beginning of September 2019.

- Once you have read these texts, you should prepare a **three hundred word written response (in full sentences) to one of them** explaining what you enjoyed about the text and what questions it has raised (questions related to reflection about the themes and characters *as well as* literal understanding if you have any uncertainty).
- In order for us to learn what it is you enjoy about literature and what your personal interests are, you should also prepare a **three hundred word written explanation** of a book, article or poem you have read, or a film, play or exhibition you have seen between the end of the GCSE exams and the beginning of the A Level course. Focus your piece of writing on what you enjoyed about the text or production and why; do not simply re-tell the story.
- Both of these pieces of writing should be emailed to rbaldock@reading-school.co.uk before Wednesday 4th September 2019. If you do not have access to email, please hand in a hard copy to Mr Baldock in the English Office before 8.20am on the same day.
- These are not optional tasks: we expect them to be completed as a natural part of the preparation for a busy course of study.

Required Text Books

English Literature: this is an essential general course text

Title	Author	Publisher	ISBN
Doing English*	Robert Eaglestone	Routledge	978-1138039674

English Literature: six texts for examination in the summer 2020

Title	Author	Publisher	ISBN
The Great Gatsby*	F Scott Fitzgerald	Penguin	978-014-118263-6
The Grapes of Wrath	John Steinbeck	Penguin	978-014-118506-4
My Antonia	Willa Cather	Norton	978-0393967906
Paradise Lost Books IX and X	John Milton	Penguin	978-0140424393
The Duchess of Malfi	John Webster	Arden	978-190-427151-2
Hamlet*	William Shakespeare	Arden	978-1472518385

English Literature: in addition, these five texts will be used for non-exam assessment (coursework) unit

Title	Author	Publisher	ISBN
Kid	Simon Armitage	Faber and Faber	978-057-116607-7
Book of Matches	Simon Armitage	Faber and Faber	978-057-116982-5
The Unaccompanied	Simon Armitage	Faber and Faber	978-057-1333844
The Go Between*	L P Hartley	Penguin	978-014-118778-5
The Audience	Peter Morgan	Faber and Faber	2015 edition only, please 978-057-132662-4

GEOGRAPHY

Background reading is the key to success in Geography. Students need to build their knowledge of current news stories surrounding the topics being taught in the first term. These topics include:

- Geopolitics – relationships between countries, particularly in relation to resources such as water, energy and minerals
- The role of global institutions – UN, IMF, World Bank, WTO
- Aid and trade
- The carbon and water cycle and events that can disrupt these cycles – increased carbon dioxide in the oceans, forests and atmosphere, emission predictions, flooding events and human activity in drainage basins
- Any major natural disaster which occurs while preparing for the course or during the course – volcanic eruptions, earthquakes, storms and wild fires.

Required Text Book and reading:

Title	Author	Publisher	ISBN
Geography AQA A Level Fourth Edition	Skinner, Abbiss, Banks Fyfe, Whittaker	Hodder	978-1-4718-5869-7
Prisoners of Geography: Ten Maps That Tell You Everything You Need to Know About Global Politics	Tim Marshall	Elliott & Thompson	978-1783961412

HISTORY

There will be recommended books that students may wish to own for reference and independent work. For instance, Cold War by John Lewis Gaddis is often used. However, we do have copies of all books we use in the LRC.

Required Text Books:

Title	Author	Publisher	ISBN
Oxford A Level History for AQA: The Cold War c1945-1991	John Aldred	Hodder	978-0-1983-5461-1
AQA A-Level History: The Tudors: England 1485-1603	David Ferriby, Angela Anderson and Tony Imperato	Hodder	978-1-4718-3758-6

LATIN

For September you will need to have bought a copy of the following books:

Title	Author	Publisher	ISBN
Latin Beyond GCSE	John Taylor		978-1-4742-9983-1
Prose Unseens for A level Latin	Matthew Owen		978-1-4742-6916-2
Ovid Unseens for A level Latin	Matthew Owen		978-1472509840
A small 'pocket size' Latin to English and English to Latin Dictionary.			

Should you be new to the school September 2019, please contact Mr Cooper for any bridging work
mcooper@reading-school.co.uk

MATHS

Please do not buy any calculator or text books in advance of beginning any Maths course (this includes Maths and Further Maths). Appropriate calculators and text books will be discussed in class at the beginning of September.

For those that would like to spend time over the summer completing bridging work, the following texts are recommended:

Title	Author	Publisher	ISBN
Bridging GCSE & A Level Maths	Mark Rowland	Collins	978-0-007-41023
Head Start to A Level Maths – Bridging the gap between GCSE and A-Level		CGP	978-1-78294-792-9

MODERN FOREIGN LANGUAGES

FRENCH

Required Text Books:

Title	Author	Publisher	ISBN
AQA A Level Year 1 and AS Student book	Robert Pike and Colin Povey	OUP	978-019-836688-1
AQA A Level Year 2 French Student Book (not needed until Y13)	Robert Pike and Colin Povey	OUP	978-0198415534
AQA A Level French: Grammar & Translation Workbook	Steve Harrison	OUP	978-0198415534
No et moi (not needed until the Summer term of Y12 - can be bought off the leaving cohort after their exams)	Delphine de Vigan	Le Livre de poche	978-2253124801

GERMAN

Required Text Books:

Title	Author	Publisher	ISBN
AQA A Level Year 1 and AS Student book		OUP	978-019-836689-8
Zeitgeist Grammar Workbok		OUP	978-019-912305-5
Wort fuer Wort		Hodder Education	978-1444-10999-3
AQA A Level German: Grammar & Translation Workbook		OUP	0198415540

SPANISH

Required Text Books:

Title	Author	Publisher	ISBN
Las bicicletas son para el verano			8467035463
AQA Spanish Year 1 and AS Student Book		AQA	978 019 836690 4
AQA Spanish Year 2 Student Book (not needed until Year 13)		AQA	978 019 836687 4
AQA A level Spanish: Grammar & Translation Workbook		AQA	198415559

MUSIC

You should use the following points to prepare for your course beginning in September:

Listening

- Either go to a BBC prom or **watch** a televised one
- Listen to any album in a popular style that you did not already know that was recommended to you by someone whose musical opinion you value
- Watch Mozart piano concerto K488, performed by Zoltán Kocsis
 - https://www.youtube.com/watch?v=94g9_cpNtA8
- Watch “Frank Sinatra the Early Years” Video on YouTube
 - <https://www.youtube.com/watch?v=2Qs1afcgpSc>

Performing

- Bring a well-prepared piece on your first instrument to perform to the class in September. It does not need to be difficult or long, just one you can play well and enjoy playing.

Checking rudiments

- Please take the following test of general musical knowledge.
<https://www.classmarker.com/online-test/start/?quiz=n765943abad632b7>

Composing

- Write a short, uplifting song to play and teach to the rest of the class. Uplifting does not necessarily mean motivational-poster-style platitudes.

Required Texts:

Title	Author	Publisher	ISBN
The Oxford Companion to Music	Scholes, Percy A, edited by John Owen Ward	OUP	10: 0193113066 13: 9780193113060
Animando! V	Richard Meehan	www.Lulu.com	

PHYSICS

In preparation for beginning your course in September, please see the points outlined below:

- Register with the Isaac Physics website: <https://isaacphysics.org>
- Register as a student at Reading School. Use your name as it will appear on the class register because you will be set work on Isaac Physics during the A level course. It doesn't matter which email account you use - it can be changed to a Reading School account later.
- Make a 'Teacher Connection' using the token **37R3D6** to join the 2019 pre-A level entry group. You may need to log out and log in again, select My Account from the menu and then the Teacher Connections tab.
- Several assignments have been set. You should read the Problem Solving Guide (from the menu) first for instructions on significant figures and so on.
- Aim to complete all of the Skills assignments, A1, A3, A5 and A6, and a selection of the questions on the other boards. These have been set at level 1 for the GCSE to A level transition. You are welcome to explore the site to find more problems if you want to. You can email Isaac Physics for advice if you need help.
- You may also find this transition guide from AQA useful (<http://filestore.aqa.org.uk/resources/physics/AQA-7407-7408-TG.PDF>). Please note that pages 4&5 are not relevant as we are not offering the AS course.

If you are struggling with any of the work, you may find the book Head start to A-Level Physics useful (included in the list below).

Required Text Books:

All students will receive access to a digital copy of the following book in September but you should also have a physical copy for use in the classroom:

Title	Author	Publisher	ISBN
AQA A Level Physics (2 nd Edition)	Jim Breithaupt	OUP	<u>978-0-19-835187-0</u>

The following book contains lots of practice questions:

Title	Author	Publisher	ISBN
Practice in Physics (4 th Edition)	Bennet, Millar & Akrill	Hodder	978-1-444-12125-4

The following book may be useful for students struggling with the bridging work outlined above:

Title	Author	Publisher	ISBN
Head Start to A-Level Physics		CGP	978-1-78294-281-8



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Erleigh Road, Reading, RG1 5LW

Telephone: 0118 9015600

admissions@reading-school.co.uk

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