

Summer learning

Postcards guidance



Essential task

- Will be collected in as part of your first lesson in September.
- Should not take more than 3 hours.
- If you require any help each subject has left an email contact that you can use in the final 3 weeks of term and after the GCSE results day.

You could tasks

- Activities that will further enhance your knowledge of the subject and the topics you will cover. These include:
 - ⇒ Reading (Books/journals/articles etc)
 - ⇒ Viewing (films/ documentaries/ TED talks etc)
 - ⇒ Places to visit
 - ⇒ Listening (podcasts/radio shows etc.)



Summer learning

Applied Science



Essential Task: Pick one of the three topics listed and produce a scientific poster. You have been given some example websites that you could use to help.

1) Semi-conductors have changed our world. What is a semi-conductor and how do we use them in technology?

<https://electronics.howstuffworks.com/diode.htm>

<https://www.hitachi-hightech.com/global/en/knowledge/semiconductor/room/about/life.html>

2) Explain how heart rate, blood pressure and lung capacity can be used to improve sports performance.

<https://www.scientificamerican.com/article/if-a-persons-lung-size-ca/>

<https://stoicconditioning.com/2023/07/20/heart-rate-training-how-using-heart-rate-monitors-will-improve-your-performance/>

3) "Rivers are no longer safe to swim in". How do we know if this headline is true? What are the tests that scientists carry out to make this conclusion? [https://](https://archive.epa.gov/water/archive/web/html/monintr.html#:~:text=There%20are%20many%20ways%20to,metals%2C%20oils%2C%20and%20pesticides.)

archive.epa.gov/water/archive/web/html/monintr.html#:~:text=There%20are%20many%20ways%20to,metals%2C%20oils%2C%20and%20pesticides.

<https://www.gov.uk/guidance/monitoring-discharges-to-water-guidance-on-selecting-a-monitoring-approach>

If you have any questions regarding this work or any other aspect of the Applied Science course then please e-mail:
e.riding@alsagerschool.org

Find information about our course and the specification here:

<https://filestore.aqa.org.uk/resources/science/specifications/AQA-1775-SP-2016.PDF>



Summer learning

A-level Fine Art

Essential Task:

Create a series of natural form drawings using a variety of media and drawing approaches.

- ◆ Continuous line
- ◆ Opposite hand
- ◆ Double line
- ◆ Blind contour .



Take photographs of the natural forms and present these onto a concertina style sketch-book with your drawings — see above.

You could visit:

Art galleries/museums -
Collect/gather information
ready for your Personal
Investigation.



You could watch:

Tom Quigleys Mixed media/
surface texture video

[https://www.youtube.com/
watch?v=NGhn6oWirNQ](https://www.youtube.com/watch?v=NGhn6oWirNQ)

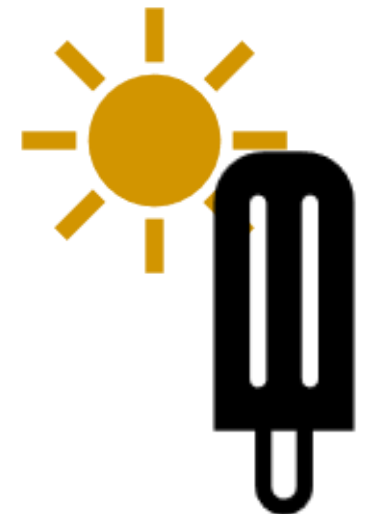
Portrait/landscape of the
year on SKY arts



If you have any questions
regarding this work or any
other aspect of the A-
level Fine Art course then
please e-mail:

L.donathy@alsagerschool.org

H.bethwaite@alsagerschool.org



Summer learning

A-level Biology



Essential Task: Choose one of the activities below which link directly with the Year 12 content.

- 1) Research the ultrastructure of an animal cell (to include structures such as the endoplasmic reticulum, golgi and lysosomes). Produce an annotated cell diagram OR produce a 3D model.
- 2) Research the problem of antibiotic resistance. Include what antibiotic resistance is, the cause and what alternatives scientists are working on to kill bacteria in the future. Produce a leaflet, poster or written report.
- 3) Why is DNA important? What is the structure of DNA and how does it replicate?. (to include detail on nucleotides and semi-conservative replication). Present this information as a diagram, report or poster.

Find information about our course and the specification here:

<https://www.aqa.org.uk/subjects/science/as-and-a-level/biology-7401-7402/specification-at-a-glance>

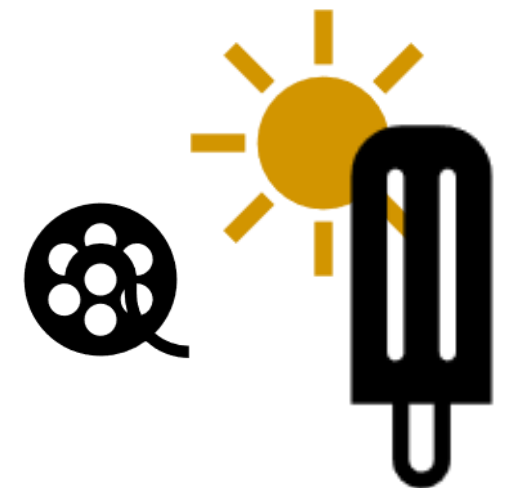
You could watch:

Phage therapy

<https://www.youtube.com/watch?v=DeRk3BiqwtU>

How Komodo Dragon blood may save lives <https://www.youtube.com/watch?>

If you have any questions regarding this work or any other aspect of the A-level Biology course then please e-mail: e.riding@alsagerschool.org



Summer learning

A-level Chemistry

Essential Task: Carry out a Research project to look at an area of interest. Below are two examples you may wish to use.

Environmental Idea for topics :

What are CFCs and how do they affect the environment? Why was legislation put into place for CFCs and what legislation was this?

Or

Inorganic Idea for topic:

Research ionisation energy and first ionisation energy. Using what you previously discovered about atomic radii can you explain these trends in ionisation energy across period 3 and down group 1.

You could Visit:

Science and industry museum– Manchester or London



Think Tank-Birmingham

You could watch:

Introduction to A– Level Chemistry– Atomic structure

<https://www.youtube.com/watch?v=7FGCVTmBA0g>



If you have any questions regarding this work or any other aspect of the A-level Chemistry course then please e-mail: n.forman@alsagerschool.org



Summer learning

A-level Computer Science

Essential Task:

Create an article that identifies explains the impact of using CHATGPT to write code both in education and work. How will it impact on the quality of code and the jobs available?

Include in your explanation at least 3 positive and negative impacts for the coder and the end user.

You could read:

AI Copilots Are Changing How Coding Is Taught

<https://spectrum.ieee.org/ai-coding>

You could listen to:

Should I let my kids use AI for their homework?

BBC podcast series—The Artificial Human—episode 1

<https://www.bbc.co.uk/sounds/play/m001wif2>



If you have any questions regarding this work or any other aspect of the A-level Computer Science course then please e-mail: r.steed@alsagerschool.org



Summer Learning

Level 3 *Criminology*

Essential Task:

Research the following roles of personnel involved in criminal investigations:

- ⇒ Police officer
- ⇒ Scene of Crime Officer (SOCO)
- ⇒ Forensic Scientists and Forensic Specialists
- ⇒ Crown Prosecution Service (CPS)
- ⇒ Pathologists

What are the **strengths** and **limitations** of each role?

You could read:



'Under the Wig: A Lawyer's Stories of Murder, Guilt and Innocence' by William Clegg QC

You could watch:



'Amanda Knox'
Documentary
— Netflix, 2016

'Stephen: The Murder that Changed a Nation' Documentary
— BBC, 2018



If you have any questions regarding this work or any other aspect of the Level 3 Criminology course then please e-mail:

L.taylor@alsagerschool.org

J.hunt@alsagerschool.org



Summer learning

Creative Digital Media Production

Essential Task:

Find magazine front covers of at least 3 different magazines that all appeal to completely different audiences.

Annotate the front covers fully with how they use language, images, colour, and topics to successfully target the intended audience. Draw comparisons between the different magazines.

You could listen to:

<https://www.bbc.co.uk/programmes/b00dv9hq>

This BBC podcast has short shows that you can listen to that discuss current issues in the media.

You could watch:

Watch some of the episodes from the following youtubers. Both have excellent videos on key theory that will be useful next year:

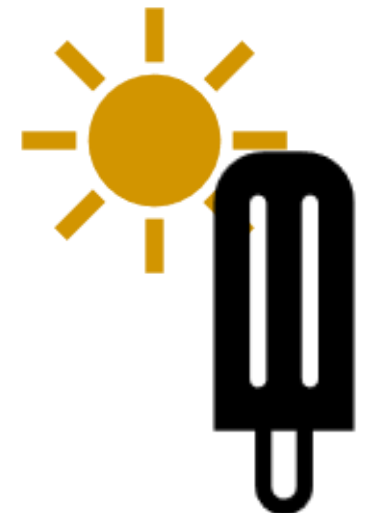
<https://www.youtube.com/@TheMediaInsider>

<https://www.youtube.com/@mrsfisher8961>



If you have any questions regarding this work or any other aspect of the BTEC Media course then please e-mail:

n.darley@alsagerschool.org or
l.carney-cox@alsagerschool.org



Summer learning

A-level Drama

Essential Task:

Start to research different Theatre Practitioners, in particular:

1. Bertolt Brecht
2. Konstantin Stanislavski
3. John Godber
4. Steven Berkoff
5. Frantic Assembly

Create a presentation which includes the styles and techniques of each practitioner.

You could read:

Component 1 texts -

1. Hedda Gabler - Henrik Ibsen
2. Our Country's Good - Timberlake Wertenbaker

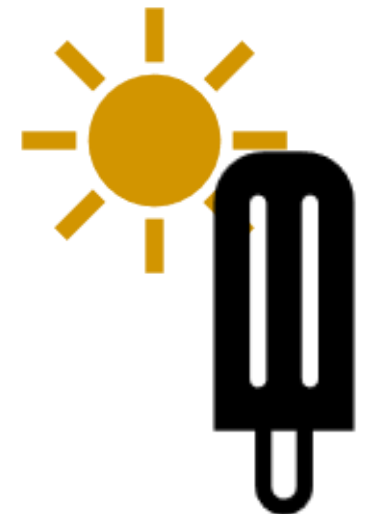


You could watch:

The play A Small Island on National Theatre.



If you have any questions regarding this work or any other aspect of the A-level Drama course then please e-mail: j.holland@alsagerschool.org



Summer learning

A-level Economics



Essential Task:

Create an article that identifies:

- A) The negative impacts of vaping on individuals & society.
- B) Evidence that vaping in UK children is a concern.
- C) The ways in which the UK government is trying to reduce vaping.
- D) Vaping rules in other countries.
- E) Definitions of negative & positive externalities.

You could read:

<https://www.bbc.co.uk/news/health-66784967>

<https://www.gov.uk/government/news/disposable-vapes-banned-to-protect-childrens-health>



You could watch:

Introduction to A level Economics <https://www.youtube.com/watch?v=34yVBDvhAgc>



If you have any questions regarding this work or any other aspect of the A-level Economics course then please e-mail:

k.potts@alsagerschool.org

S.Hollins-

Wright@alsagerschool.org



Summer learning

A-level English Language

Essential Task:

Create a language profile for yourself. Consider elements of accent and dialect that has influenced your sociolect. (Complete the worksheet that has been handed to you/emailed out).

Respond to the following statement: “Accent and dialect is an important part of a person’s identity.” Aim to reference your own findings when looking at your accent and dialect. You could also do research into the topic to add to your response.

You could read:

We have a subscription to emag, a magazine which has a variety of articles that link to the study of linguistics. Our username is emag4als1 and password is lrc1998.

<https://www.englishandmedia.co.uk/emc-magazines/>



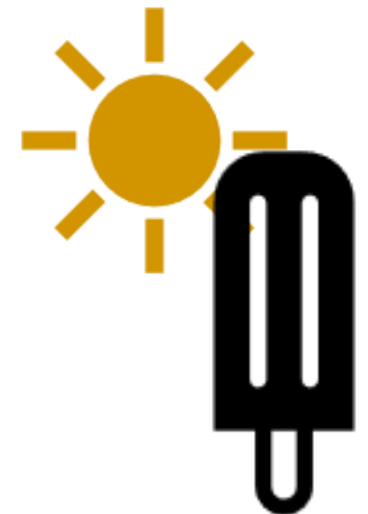
You could listen to:

Language on the move is a podcast that focuses on different elements of language and how it is changing.

<https://www.languageonthemove.com/>



If you have any questions regarding this work or any other aspect of the A-level English Language course then please e-mail: n.darley@alsagerschool.org or s.martin@alsagerschool.org



Summer learning

A-level English Literature



Essential Task:

1) Read or watch a piece of crime fiction (*Sherlock*, *Midsummer Murders*, *CSI*, Agatha Christie, Chris Ryan etc)

2) Complete a reading log summarising:

- Plot + Context
- Criminal figure
- Detective figure
- Victims
- Motives

You could read:

English Review—in the LRC

EMC E-Magazine—
emag4als1 / lrc1998



You could watch:

Culture in Quarantine: Shakespeare/ Othello - BBC Iplayer



You could listen:

'Rime of the Ancient Mariner' -

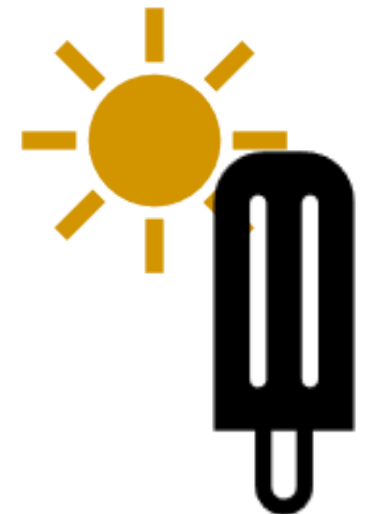
In Our Time: BBC Radio 4

'Robert Browning—Frank Skinner's Poetry Podcast



If you have any questions regarding this work or any other aspect of the A-level English Literature course then please e-mail:

a.webster@alsagerschool.org



Summer learning

A-level Theology, Philosophy & Ethics

Essential Task:

Create a timeline of key thinkers and scholars. You should include a brief overview for each.

Plato	Hampson
Augustine	Descartes
Martin Luther	Kant
Fletcher	Dawkins
Hume	
Hick	

You could read:



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

You could watch:

Introduction to A Level Philosophy and Ethics:

[https://www.youtube.com/c/
BenWardle](https://www.youtube.com/c/BenWardle)



If you have any questions regarding this work or any other aspect of the A-level Theology, Philosophy & Ethics course then please e-mail:
s.skingle@alsagerschool.org
c.mitchell@alsagerschool.org



Summer learning

A-level French

Essential Task:

Listen to this podcast about the French film 'La Haine'. Make a summary of the key themes and reasons why it is still a relevant film nowadays.

(<https://www.bbc.co.uk/programmes/w3ct4xbm>)

You could read:

3 articles from 'Un Jour Un Actu' and summarise the key points in English.

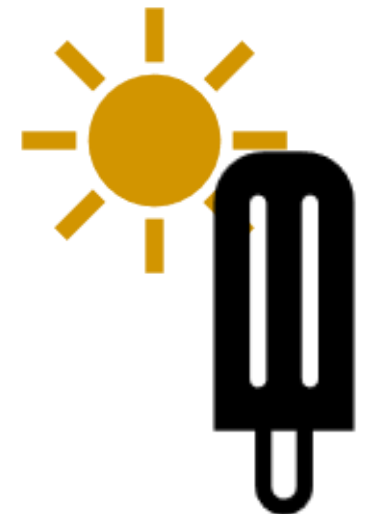
You could watch:

3 videos from 'Un Jour Une Quésition' and summarise the key points in English.

<https://www.1jour1actu.com/videos>



If you have any questions regarding this work or any other aspect of the A-level French course then please e-mail: r.howlett@alsagerschool.org



Summer learning

A-level Geography



Essential Task:

A big part of geography is keeping an eye on the news. You should make a mind map of the news reports on the following topics;

Physical Paper

Natural Hazards

Water Security

Carbon Cycle (specifically climate change)

Human Paper

Globalisation

Wars

USA and China



You could read:

The Power of Geography / Prisoners of Geography by Nick Marshall



The Almighty Dollar by Darshini David

Disaster by Choice by Ilan Kelman

When the Rivers run Dry by Fred Pearce

The Avoidable War by Kevin Rudd

You could watch:

Earth Storm on Netflix

China: A New World Order on Netflix

You could visit:

Snowdonia to look at rock seams and synclines.

Formby Beach to look at sand dunes and longshore drift

Queen Elizabeth II Park (Olympic) Park to look at Regeneration, much closer is Festival Park and gardens.

Manchester Northern Quarter and Deansgate to look at clone towns.



Summer learning

CTECH Health and Social Care



Essential Task:

- **Research** into what person centred care is. How do practitioners ensure that person centred care takes place. Find an example via google to show person centred care in action in health care.
- **Write a paragraph to explain the detailed differences** between verbal and non verbal communication. **Give clear examples** of each type – in your paragraph you also need to write about some barriers to communication.
- To extend your knowledge further you could **research and explain** the term advocate and give two advantages of using/having an advocate in HSC.

You could read:

Stafford hospital scandal—

<https://www.bbc.co.uk/news/health-21244190>



Building positive relationships—

www.hoddereducation.com/media/Documents/Cambridge%20Technicals/Health-Social-Care-Sample.pdf

You could watch:

Let's talk about person centred

care - <https://www.youtube.com/watch?v=rM9QAxFsbMU>



Promoting independence—<https://www.youtube.com/watch?v=2qUclQvnBC0>

You could visit:

Any form of health, social care or child care environment. Volunteering in these environments is beneficial also.



If you have any questions regarding this work or any other aspect of the CTECH Health and Social Care course then please e-mail:

l.jolley@alsagerschool.org

l.howard@alsagerschool.org



Summer learning

A-level History

Essential Task:

Create a timeline for the following:

- * British Prime Ministers from 1951—2007
- * American Presidents from 1865—1975

You need to find out the dates they were leader, the party they represented and the margin of their victory,

Choose 1 from each timeline and research a significant event from their time in office. Outline the main facts of the event, and explain why it was significant.

You could read the introductions of:

K O'Morgan, *Twentieth Century Britain: A Very Short Introduction*, OUP, 2000

Or

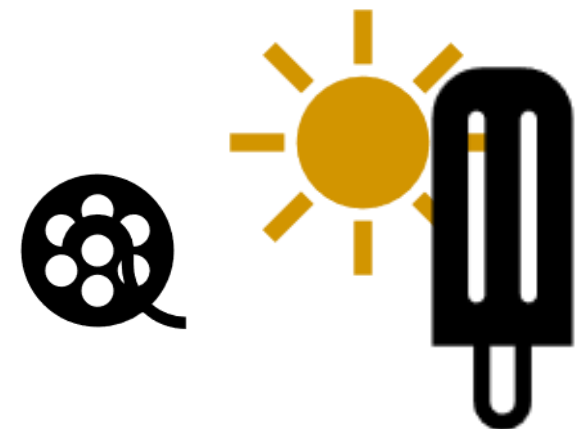
P Boyer, *American History: A Very Short Introduction*, OUP, 2012

You could watch:

Give yourself a 'sense of period' by watching 'The Crown' on Netflix.



If you have any questions regarding this work or any other aspect of the A-level History course then please e-mail: t.brookshaw@alsagerschool.org



Summer learning

BTEC IT

Essential Task:

Create an article that identifies explains the impact of using CHATGPT as a tool to help create marketing content for a small business. What would be the advantages and disadvantages to the business?

Include in your explanation at least 3 positive and negative impacts for the business and the end user.

You could read:

The workers already replaced by artificial intelligence—from BBC

<https://www.bbc.co.uk/news/business-65906521>



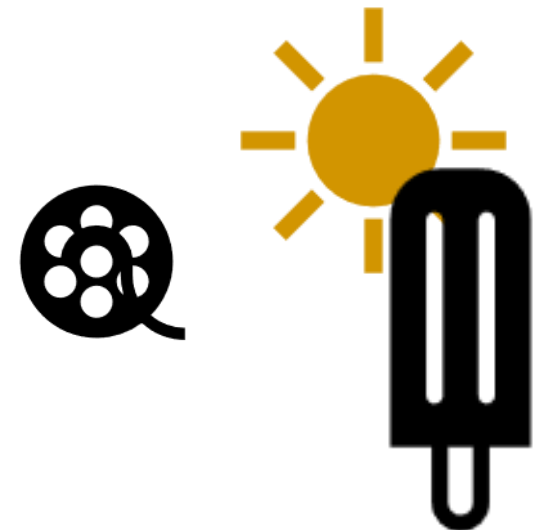
You could watch this TED talk :

What Will Happen to Marketing in the Age of AI? by Jessica Apotheker

<https://www.youtube.com/watch?v=3MwMlI8n1qM>



If you have any questions regarding this work or any other aspect of the A-level Computer Science course then please e-mail: r.steed@alsagerschool.org



Summer learning

A-level Maths

Essential Task:

Review and extend your learning of GCSE Maths lessons by using the skills checks here <https://amsp.org.uk/teachers/11-16-maths/transition-to-level-3-maths/essential-skills/>

If there is anything you struggle with, make sure that you review this using the 'practice and explore' resources.

You could read:

There are lots of exciting Maths books here

<https://nrich.maths.org/9477>

You could watch:

Career case studies (w/QR codes links to videos)

<https://amsp.org.uk/app/uploads/2022/10/Postcard-5-JP-1.png>

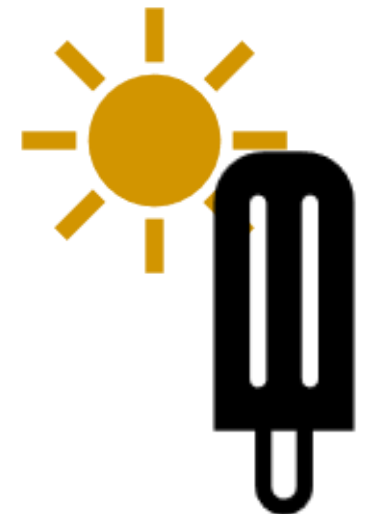
<https://amsp.org.uk/app/uploads/2022/10/Postcard-5-LSB.png>

<https://amsp.org.uk/app/uploads/2022/10/Postcard-5-MU-2.png>

<https://amsp.org.uk/app/uploads/2022/10/Postcard-5B.png>



If you have any questions regarding this work or any other aspect of the A-level Statistics course then please e-mail: a.sutch@alsagerschool.org



Summer Learning

A-level Music



Essential Task:

Create an 8 bar phrase that uses:

- The key of F major
- Include two cadences
- Use soprano, alto, tenor and bass voices
- In the style of a Bach Chorale.

Create the phrase using Muscorescore.

Example:

(do not copy this!)



You should watch the following video to help you with the task:

<https://www.youtube.com/watch?v=iCDE0hBZLv4>

Recommended Listening for future lessons:

Joni Mitchell - Blue, Help Me, River

Stevie Wonder - For Once in My Life, Sir Duke, Superstition, Uptight

Purcell - Concerto for Trumpet and Strings in D

Vivaldi - Flute Concerto in D Op.10 No.3 'Il Gardellino'
RV428

Bach - Violin Concerto No.1 in A minor (BWV1041)



If you have any questions regarding this work or any other aspect of the A-level Music course please e-mail us at: music@alsagerschool.org

Summer learning

A-level Photography

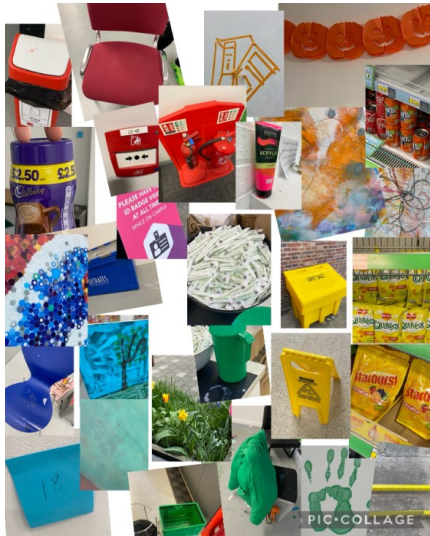
Essential Task:

Using a camera/phone, create a photography colour wheel of a variety of brightly coloured objects. These could include images taken inside your house/outside.

This needs to be a collage of photographs presented either on a word/powerpoint document.

Consider the following:

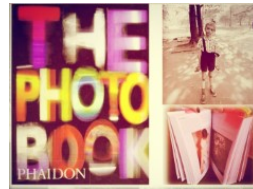
- ◆ Scale
- ◆ Focus
- ◆ Zoom
- ◆ Composition
- ◆ Primary & secondary colours



You could read:

Ways of seeing - John Berger

The Photo Book—Phaidon



You could watch:

The History of Photography in 5 minutes

<https://www.youtube.com/watch?v=JoxGEymA8ro>

Art Movements through Photography

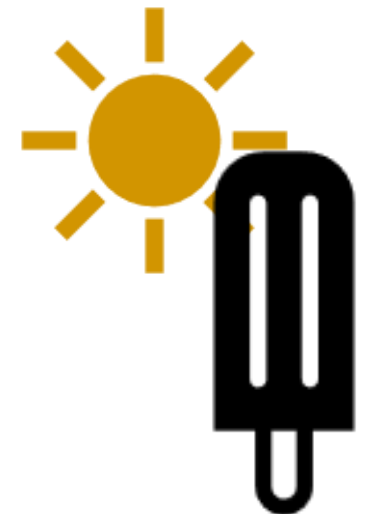
<https://www.youtube.com/watch?v=r-Bx5krtLZY>



If you have any questions regarding this work or any other aspect of the A-level Photography course then please e-mail:

L.donathy@alsagerschool.org

H.Bethwaite@alsagerschool.org



Summer learning

A-level Physics

Essential Task: Carry out research into a topic that links directly with our first unit on the A level course. You can display the information in any way that you choose.

Research the physics behind vehicle and transport safety mechanisms. This must include:

- * Seatbelts
- * Crumple zones
- * Airbags
- * Cycle helmets
- * Central reservation barriers
- * Deceleration lanes

Find information about our course and the specification here:

<https://www.ocr.org.uk/qualifications/as-a-level-gce/physics-a-h156-h556-from-2015/specification-at-a-glance/>

You could watch:

Car safety features: https://www.youtube.com/watch?v=I3wtC6VE_WU

Car air bags explained: <https://www.youtube.com/watch?v=ZEWCFjbqaaE>



If you have any questions regarding this work or any other aspect of the A-level Physics course then please e-mail:
e.riding@alsagerschool.org



Summer learning

A-level Politics

Essential Task:

Post General Election Analysis

Complete the following activities:

1. Who won? Who is now PM?
2. How many seats were won by each party?
3. Who is in the cabinet?
4. Who is in the shadow cabinet?
5. Between 5th July and 30th August what policies/changes/developments have there been? - create a log

You could listen to:

The Rest is Politics
podcast, available
most providers



You could watch:

Election night coverage, 4th July

Keeping up to date with
the news is really helpful



Keeping up-to-date with the news is
always really helpful!



If you have any
questions
regarding this
work or any other
aspect of the A-
level Politics
course then
please e-mail:
[t.brookshaw@alsager
school.org](mailto:t.brookshaw@alsager.school.org) or
[l.wilmore@alsagersch
ool.org](mailto:l.wilmore@alsagerschool.org)



Summer learning

A-level Product Design



Essential Task:

Research the Bauhaus (School of Industrial Art) 1919-1933

Choose a product from the list below:

- B3 'Wassily chair' by Marcel Breuer
- Tea infuser by Marianne Brandt
- WA 24 Lamp by Wilhelm Wagenfeld

Prepare a two page illustrated report in your own words, how the product you have chosen reflects the ideas and principles of design as set out by the Bauhaus.

You could visit:

Museums such as the V&A 20th century design gallery, the Design Museum or even IKEA stores!

You could watch:

Architecture, Art and Design, 100 years of the Bauhaus

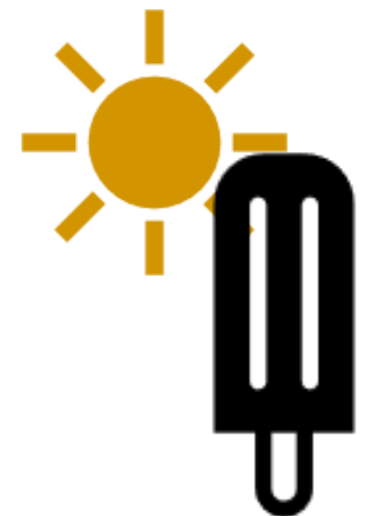
<https://www.youtube.com/watch?v=rg3X1vZN5TA>



If you have any questions regarding this work or any other aspect of the A-level Product Design course then please e-mail:

w.potts@alsagerschool.org

s.harbour@alsagerschool.org



Summer Learning

A-level Psychology

Essential Task:

Create a timeline of Psychology that can be used to help you understand the main approaches to explaining human behaviour.

You can use the following websites to help you get started:

<https://www.theguardian.com/lifeandstyle/2009/mar/07/timeline-psychology-history>

<https://www.verywellmind.com/timeline-of-modern-psychology-2795599>

You could read:

'The Man Who Mistook His Wife for a Hat'

By Oliver Sacks



You could watch:

Introduction to Psychology —
<https://www.youtube.com/watch?v=vo4pMVb0R6M>

The Mind Explained — Netflix



You could visit:

Freud Museum, London



If you have any questions regarding this work or any other aspect of the A-level Psychology course then please e-mail:

E.hampshire@alsagerschool.org



Summer learning

A-level Spanish

Essential Task:

Read the following article about the author Federico García Lorca and summarise the key parts of his life in English.

[https://
www.poetryfoundation.org/
poets/federico-garcia-lorca](https://www.poetryfoundation.org/poets/federico-garcia-lorca)

You could read:

One of the following 'Boletín' articles on regional identity and summarise the key points in English.

[https://www.boletin.co.uk/
s/regional-identity/
archive?sort=new](https://www.boletin.co.uk/s/regional-identity/archive?sort=new)



You could listen to:

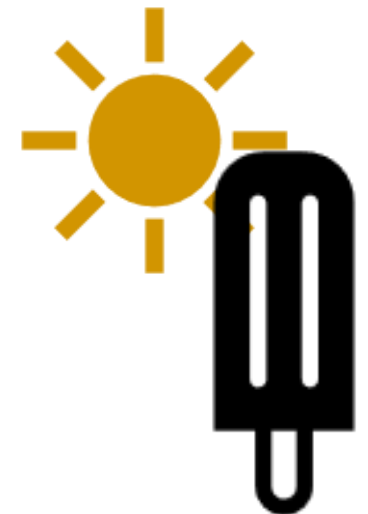
This podcast about Spain's relationship with bullfighting and summarise the key points in English.

[https://www.bbc.co.uk/programmes/
b06g7rxl](https://www.bbc.co.uk/programmes/b06g7rxl)



If you have any questions regarding this work or any other aspect of the A-level Spanish course then please e-mail:

k.hamilton@alsagerscho



Summer learning

Sport

Essential Task:

Watching the following video, complete the Energy System Review table detailing the essential information about each of the energy systems.

- [https://pdhpe.net/factors-affecting-performance/how-does-training-affect-performance/energy-systems/#:~:text=There%20are%20three%20\(3\)%20main,system%2C%20and%20the%20aerobic%20system.](https://pdhpe.net/factors-affecting-performance/how-does-training-affect-performance/energy-systems/#:~:text=There%20are%20three%20(3)%20main,system%2C%20and%20the%20aerobic%20system.)

Using the information within the table, justify how a games player of your choice uses the energy continuum throughout a competitive match.

You could read:

Google Search
“Loughborough College
Module 13: Energy systems”. Enter the site and complete the table of contents from A to F (left hand side of the screen)



You could watch:

The PE Tutor - A Level Physical Education: Energy System

- https://www.youtube.com/watch?v=__ezoHMFuCk



If you have any questions regarding this work or any other aspect of the CTECH Sport and Physical Activity course then please e-mail:
m.bennett@alsagerschool.org



Summer learning

A-level Statistics



Essential Task:

Review and extend your learning of statistics from GCSE Maths lessons by completing these questions

[AN INTRODUCTION TO AS LEVEL STATISTICS.pdf](#)

If you don't know the answers it is important that you research this and make sure that you have reviewed your prior knowledge before starting the course.

You could read: Capturing the complexities of the pandemic with numbers <https://www.theguardian.com/commentisfree/2022/jan/02/2021-year-when-interpreting-covid-statistics-crucial-to-reach-truth>



You could listen to:

More or Less on Radio 4 <https://www.bbc.co.uk/programmes/p02nrss1/episodes/downloads>



You could watch:

Professor David Spiegelhalter—The Art of Statistics <https://www.youtube.com/watch?>

If you have any questions regarding this work or any other aspect of the A-level Statistics course then please e-mail: a.sutch@alsagerschool.org

