



## **Year 10 independent study tasks.**

This booklet contains tasks from all subjects which students can work through in addition to homework they have been set.

## Maths

Look at the traffic light sheet in the back of your exercise book from your most recent exam.

Research and practice any topic areas that are coloured in red or orange.

Some websites that will help you include;

[www.mymaths.co.uk](http://www.mymaths.co.uk) (username: qegsa password: triangle)

[www.bbc.co.uk/education](http://www.bbc.co.uk/education)

Youtube also have some good channels on a variety of different topics, such as hegarty maths.

If you complete any extra work in your book then please remember to write a title showing that this is extra work.

## Science

Chemistry:

<http://www.doddelearn.co.uk>

Go to tab at top showing 'log in'

Type DE6 for the institution

Type your usual QEGS username

Your password is queenelizabeth

Complete all tasks assigned to you and review all materials on the units you have covered.

Physics:

All work is based around Required Practical work for Physics

Log in to Ezy science using the details e-mailed to you.

The copy and paste the URL to start the work.

### **1. Density**

Lesson

[https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn\\_paths/12537-pm1-2-determining-density-lecture-video.html](https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn_paths/12537-pm1-2-determining-density-lecture-video.html)

Assessment

[https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn\\_paths/12538-pm1-2a-determining-density-assessment.html](https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn_paths/12538-pm1-2a-determining-density-assessment.html)

### **2. Specific Heat Capacity**

Lesson

[https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn\\_paths/12112-en1-7-finding-the-specific-heat-capacity-lecture-video.html](https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn_paths/12112-en1-7-finding-the-specific-heat-capacity-lecture-video.html)

Assessment

[https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn\\_paths/12113-en1-7a-finding-the-specific-heat-capacity-assessment.html](https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn_paths/12113-en1-7a-finding-the-specific-heat-capacity-assessment.html)

### **3. Finding Resistance**

Lesson

[https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn\\_paths/12338-el1-4-2-finding-resistance-resistance-vs-length-lecture-video.html](https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn_paths/12338-el1-4-2-finding-resistance-resistance-vs-length-lecture-video.html)

### Lesson

[https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn\\_paths/12339-el1-4-3-finding-resistance-combinations-lecture-video.html](https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn_paths/12339-el1-4-3-finding-resistance-combinations-lecture-video.html)

### Assessment

[https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn\\_paths/12340-el1-4a-finding-resistance-assessment.html](https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn_paths/12340-el1-4a-finding-resistance-assessment.html)

## **4. IV characteristics of electrical components**

### Lesson - Resistor

[https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn\\_paths/12342-el2-1-1-v-i-characteristics-resistor-lecture-video.html](https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn_paths/12342-el2-1-1-v-i-characteristics-resistor-lecture-video.html)

### Lesson - Filament lamp

[https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn\\_paths/12343-el2-1-2-v-i-characteristics-filament-lamp-lecture-video.html](https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn_paths/12343-el2-1-2-v-i-characteristics-filament-lamp-lecture-video.html)

### Lesson - Diode

[https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn\\_paths/12344-el2-1-3-v-i-characteristics-diode-lecture-video.html](https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn_paths/12344-el2-1-3-v-i-characteristics-diode-lecture-video.html)

### Assessment

[https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn\\_paths/12345-el2-1a-v-i-characteristics-assessment.html](https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn_paths/12345-el2-1a-v-i-characteristics-assessment.html)

## **5. Forces and extension**

### Lesson

[https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn\\_paths/11593-fo3-3-1-f-ke-experiment-doing-the-experiment-lecture-video.html](https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn_paths/11593-fo3-3-1-f-ke-experiment-doing-the-experiment-lecture-video.html)

[https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn\\_paths/11661-fo3-3-2-f-ke-experiment-analysing-the-results-lecture-video.html](https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn_paths/11661-fo3-3-2-f-ke-experiment-analysing-the-results-lecture-video.html)

### Assessment 1

[https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn\\_paths/11594-fo3-3a-f-ke-experiment-assessment.html](https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn_paths/11594-fo3-3a-f-ke-experiment-assessment.html)

### Assessment 2

[https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn\\_paths/11595-fo3-3b-f-ke-experiment-assessment.html](https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn_paths/11595-fo3-3b-f-ke-experiment-assessment.html)

## **6. Acceleration**

### Lesson

[https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn\\_paths/11628-fo8-3-1-measuring-force-and-acceleration-lecture-video.html](https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn_paths/11628-fo8-3-1-measuring-force-and-acceleration-lecture-video.html)

Lesson

[https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn\\_paths/11959-fo8-3-2-force-and-acceleration-experiment-lecture-video.html](https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn_paths/11959-fo8-3-2-force-and-acceleration-experiment-lecture-video.html)

Assessment part 1

[https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn\\_paths/11960-fo8-3-3-mass-and-acceleration-experiment-lecture-video.html](https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn_paths/11960-fo8-3-3-mass-and-acceleration-experiment-lecture-video.html)

Assessment part 2

[https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn\\_paths/11961-fo8-3b-newton-039-s-2nd-law-experiment-assessment.html](https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn_paths/11961-fo8-3b-newton-039-s-2nd-law-experiment-assessment.html)

## **7. Waves**

Lesson

[https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn\\_paths/12845-wa1-3-measuring-the-speed-of-waves-lecture-video.html](https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn_paths/12845-wa1-3-measuring-the-speed-of-waves-lecture-video.html)

Assessment

[https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn\\_paths/12846-wa1-3a-measuring-the-speed-of-waves-assessment.html](https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn_paths/12846-wa1-3a-measuring-the-speed-of-waves-assessment.html)

## **8. Radiation and absorption**

Lesson

[https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn\\_paths/12865-wa2-3-1-investigating-the-emission-of-ir-lecture-video.html](https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn_paths/12865-wa2-3-1-investigating-the-emission-of-ir-lecture-video.html)

Lesson

[https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn\\_paths/13059-wa2-3-2-investigating-the-absorption-of-ir-lecture-video.html](https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn_paths/13059-wa2-3-2-investigating-the-absorption-of-ir-lecture-video.html)

Assessment

[https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn\\_paths/12866-wa2-3a-the-absorption-and-emission-of-ir-assessment.html](https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn_paths/12866-wa2-3a-the-absorption-and-emission-of-ir-assessment.html)

**Physics only**

## **9. Thermal insulators**

Lesson

[https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn\\_paths/12117-en2-2-thermal-insulators-lecture-video.html](https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn_paths/12117-en2-2-thermal-insulators-lecture-video.html)

Assessment

[https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn\\_paths/12118-en2-2a-thermal-insulators-assessment.html](https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn_paths/12118-en2-2a-thermal-insulators-assessment.html)

## **10. Light – reflection and refraction**

### Lesson

[https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn\\_paths/12853-wa1-6-investigating-reflection-and-refraction-lecture-video.html](https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn_paths/12853-wa1-6-investigating-reflection-and-refraction-lecture-video.html)

### Assessment

[https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn\\_paths/12854-wa1-6a-investigating-reflection-and-refraction-assessment.html](https://www.ezyeducation.co.uk/learning-zone/118-aqa-gcse-physics/learn_paths/12854-wa1-6a-investigating-reflection-and-refraction-assessment.html)

## History

1. Create additional revision resources other than the ones already set for homework by staff. This could include creating flashcards, timelines, mind maps, character profiles etc. Students could create these resources for the following topics:
  - Medicine 1250-present
  - The British Sector of the Western Front, 1914-1918
  - Early Elizabethan England, 1558-1588
  - Superpower relations and the Cold War, 1941-91
  - The USA, 1954-1975: conflict at home and abroad.
  
2. Plan answers to past exam questions. These are available on the revision board in room 106 and accessible through your class group emails.
3. Complete quizzes. These are available on the revision board in room 106 and accessible through your class group emails.
4. Wider reading- There are books available in room 106 for the following topics:
  - Medicine 1250-present
  - The British Sector of the Western Front, 1914-1918
  - Early Elizabethan England, 1558-1588
  - Superpower relations and the Cold War, 1941-91
  - The USA, 1954-1975: conflict at home and abroad.

You can check these books out from the Library if you wanted to take them home.
  
5. BBC Bite size- There are revision tasks and tests for the following subjects:
  - Early Elizabethan England, 1558-1588
  - Superpower relations and the Cold War, 1941-91
  - The USA, 1954-1975: conflict at home and abroad- (Just the Vietnam section).
  
6. You tube- There are some useful clips on You Tube if you type in aspects of the above subjects. If you type in *simple history*, there are several clips on the Cold War and the Vietnam War. Also access clips through your group email. BBC Teach you tube is also another good resource.

## Geography

- Create key terms dominoes for the UK's Physical landscape, Rivers, fieldwork and Coasts.
- Create a revision video explaining three aspects of the GCSE course studied so far e.g. different types of erosion, how is a meander and ox-bow lake formed.
- Create a revision quiz and test it on a fellow Geographer.
- Create a revision mind map summarising one major flood event include causes, impacts and management.
- Go onto the group email and complete the test your knowledge and understanding quizzes.
- Create A3 mind map for the topic.
- Wider reading in the library



## MFL

### French

#### French

- Use kerboodle.com to access activities from the GCSE textbook online
- Use vocabexpress.com to test yourself on vocabulary from different topic areas
- Use [www.linguascope.com](http://www.linguascope.com) for interactive vocabulary games (ask your teacher for the password)
- Use languagesonline.org.uk to practise vocabulary and grammar exercises
- Use the GCSE Bitesize website to practise exam style listening and reading questions
- Use lyricstraining.com to practise listening skills whilst listening to French music
- Record general conversation answers for the speaking exam on your phone and listen to them back
- Watch one of these French films that are studied at A-Level:
  - Les 400 coups (rated PG)
  - Au revoir les enfants (rated 12A)
  - La Haine (rated 15)
  - L'auberge espagnol (rated 15)
  - Un long dimanche de fiançailles (rated 15)
  - Entre les murs (rated 15)
- Read one of these novels that are studied at A-Level:
  - Molière *Le Tartuffe*
  - Voltaire *Candide*
  - Guy de Maupassant *Boule de Suif et autres contes de la guerre*
  - Albert Camus *L'étranger*
  - Françoise Sagan *Bonjour tristesse*
  - Claire Etcherelli *Elise ou la vraie vie*
  - Joseph Joffo *Un sac de billes*
  - Faïza Guène *Kiffe kiffe demain*
  - Philippe Grimbert *Un secret*
  - Delphine de Vigan *No et moi*

### German

- Use kerboodle.com to access activities from the GCSE textbook online

- Use vocabexpress.com to test yourself on vocabulary from different topic areas
- Use [www.linguascope.com](http://www.linguascope.com) for interactive vocabulary games (ask your teacher for the password)
- Use languagesonline.org.uk to practise vocabulary and grammar exercises
- Use the GCSE Bitesize website to practise exam style listening and reading questions
- Use lyricstraining.com to practise listening skills whilst listening to German music
- Read some of Grimm's fairy tales
- Record general conversation answers for the speaking exam on your phone and listen to them back
- Watch one of these German films that are studied at A-Level:
  - Sophie Scholl – Die letzten Tage (rated PG)
  - Good bye, Lenin! (rated 15)
  - Das Leben der Anderen (rated 15)
  - Die fetten Jahre sind vorbei (rated 15)
  - Lola rennt (rated 15)

- Read one of these novels that are studied at A-Level:

- Heinrich Böll *Die verlorene Ehre der Katharina Blum*
- Bertolt Brecht *Mutter Courage und ihre Kinder*
- Friedrich Dürrenmatt *Der Besuch der alten Dame*
- Max Frisch *Andorra*
- Heinrich Heine *Gedichte – Buch der Lieder*
- Jana Hensel *Zonenkinder*
- Franz Kafka *Die Verwandlung*
- Wladimir Kaminer *Russendisko*
- Siegfried Lenz *Fundbüro*
- Bernhard Schlink *Der Vorleser*

## Spanish

- Use kerboodle.com to access activities from the GCSE textbook online
- Use vocabexpress.com to test yourself on vocabulary from different topic areas
- Use [www.linguascope.com](http://www.linguascope.com) for interactive vocabulary games (ask your teacher for the password)
- Use languagesonline.org.uk to practise vocabulary and grammar exercises
- Use the GCSE Bitesize website to practise exam style listening and reading questions

- Use lyricstraining.com to practise listening skills whilst listening to Spanish music
- Record general conversation answers for the speaking exam on your phone and listen to them back
- Watch one of these Spanish films that are studied at A-Level:
  - El laberinto del fauno (rated 15)
  - Ocho apellidos vascos (rated 15)
  - Maria, llena eres de gracia (rated 15)
  - Volver (rated 15)
  - Abel (rated 15)
  - Las 13 rosas (rated 15)

- Read one of these novels that are studied at A-Level:

- Federico García Lorca *La casa de Bernarda Alba*
- Gabriel García Márquez *Crónica de una muerte anunciada*
- Laura Esquivel *Como agua para chocolate*
- Ramón J. Sender *Réquiem por un campesino español*
- Carlos Ruiz Zafón *La sombra del viento*
- Isabel Allende *La casa de los espíritus*
- Gustavo Adolfo Bécquer *Rimas*
- Fernando Fernán-Gómez *Las bicicletas son para el verano*
- Luis de Castresana *El otro árbol de Guernica*
- Gabriel García Márquez *El coronel no tiene quien le escriba*

## Dance and Drama

Dance	Drama
<ul style="list-style-type: none"><li>• Research different dance styles</li><li>• Watch different types of dance</li><li>• Develop exercises you can do at home to improve your: strength (legs and core), flexibility and stamina</li><li>• Rehearse your routines and warm-up exercises</li><li>• Create yourself a long term target plan over the two-year course</li><li>• Research different types of training for further and higher education</li><li>• Research jobs that use drama</li></ul>	<ul style="list-style-type: none"><li>• Watch different types of drama – movies or live plays</li><li>• Learn lines</li><li>• Rehearse performances</li><li>• Character development – profiles, research</li><li>• Set long term targets and goals over the two-year course</li><li>• Record rehearsal process – what did you? Any changes? Impacts of these changes?</li><li>• Research different types of training for further and higher education</li></ul>

## Business Studies

Sign up to BBC Business News and read articles that you feel are linked to the course. Challenge your teacher to answer your questions on what you have learnt. E.g 'What caused the recent closure of KFC stores' – Merits available for challenging questions (as long as you know the answer!!)

Follow Mrs Briggs' tweets (@thebizteach) and challenge your teacher.

Go to the Edexcel website and look at past papers for the Business GCSE. Really useful to work through the old specification unit 1 papers. Although the new specification doesn't have this format of paper the content is the same and you can check your knowledge and mark your own papers easily. Good to do if you don't want to write lots but still challenge yourself especially with the finance bits of the course.

Link here - [http://qualifications.pearson.com/en/support/support-topics/exams/past-papers.html?Qualification-Family=GCSE&Qualification-Subject=Business%20\(2009\)&Status=Pearson-UK:Status%2FLive&Specification-Code=Pearson-UK:Specification-Code%2F2BS01&Specification-Code=Pearson-UK:Specification-Code%2F2bs01](http://qualifications.pearson.com/en/support/support-topics/exams/past-papers.html?Qualification-Family=GCSE&Qualification-Subject=Business%20(2009)&Status=Pearson-UK:Status%2FLive&Specification-Code=Pearson-UK:Specification-Code%2F2BS01&Specification-Code=Pearson-UK:Specification-Code%2F2bs01)

Watch the programmes we have on Clickview in the **Business** folder (available through the intranet) – Ones I'd recommend are 'The Apprentice' and 'Dragon's Den' (or anything presented by Evan Davis) are good. Also 'Inside the factory', 'Alex Polizzi – The Fixer' and 'The Secrets of Sports Direct' – **List all of the key terms you hear that you have learnt in Business and show your teacher**

### Useful Websites

[www.tutor2u.net](http://www.tutor2u.net)

[www.bbc.com/education/subjects/zpsvr82](http://www.bbc.com/education/subjects/zpsvr82)

## Art

- Read art books to understand what was happening in the wider world when the art works were produced. Look at art, architecture, graphics, street art, fashion, textiles, glass, and ceramics. Gombrichs – The History of Art is an excellent book.
- Research artists that link to the Everyday theme to look at a variety of different ways of producing artwork.
- Pinterest , the Victoria and Albert Museum and the Tate are a good resources to use.
- Try to reproduce original work in the style of the artists.
- Visit museums and art galleries. Photograph images that inspire you. Keep a sketchbook, draw and collect images and items that inspire you.
- You have completed a number of workshops. Find an art form that you like to use- photograph items of interest, sew, draw, collage, and produce digital art, use clay or paint.

## R.E

- Produce a portfolio containing images of Liturgical Worship and Non-Liturgical worship and use these to explain the differences.
- Produce a website or fact file on how Christians celebrate Easter and Christmas.
- Interview someone who has been baptised and ask them to explain the reasons why they've been baptised and how they think it has affected their lives.
- Research the main arguments from Pro Life and Pro Choice groups and produce a persuasive speech to be delivered to Parliament encouraging a change in the law.
- Produce a video on Christian and Muslim attitudes to the environment.
- Set up a website which teaches non-Muslims about the 5 Pillars of Islam.
- Create a poster advertising Ramadan to Muslims, explaining the benefits of this practise.
- Produce a fact file on Islamic Relief, and why Muslims support this charity.