

# Year 10 – Revision List

## Assessment Window 2

### Tuesday 13<sup>th</sup> June – Friday 29<sup>th</sup> June

In this assessment window you will take tests, under examination conditions, in the sports hall. These tests will be used to work out a GCSE grade you are working at now and what we anticipate you will get at the end of Year 11. This will form a tracking report that goes home to your parents and carers. You will use this tracking report when applying for 6<sup>th</sup> forms, colleges and apprenticeships as evidence of your anticipated grades and effort, as well as your attendance.

To help you prepare for these tests, each subject has provided a revision list. You will take assessments in

- English
- Science
- Maths
- Option subjects, where relevant

Other subject areas will give you more revision material in session time as well as this revision list.

### How can you prepare for these assessments?

- Use your 40 minute daily tutor time wisely
- Revise up to three subjects an evening, for 30 minutes each
- Use 'Sam Learning' to revise important topic areas
- Use 'Active Learn' for Science revision
- Get your friends/parents to test you
- Write revision notes and key terms
- Create a revision map for each subject area

Trial examination timetable

Date	Start	Len	Component Title
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Mon 11 Jun	All Day	10D	Art Practical
Thu 14 Jun	All Day	10C and 10A	

Mon 18 Jun	09:00	01:30	Maths Paper 1
Tue 19 Jun	09:00	01:30	Maths Paper 2
	14:00	01:00	Biology
Thu 21 Jun	09:00	01:30	Maths Paper 3
	14:00	01:00	Chemistry

Mon 25 Jun	09:00	01:45	English Language
	14:00	01:00	Physics
Tue 26 Jun	09:00	01:30	English Literature
	14:00	01:30	PE
		01:30	Phil & Ethics
Wed 27 Jun	09:00	01:30	Geography Themes
	10:50	01:30	Geography Skills
Thu 28 Jun	09:00	01:45	Food & Nutrition
		01:45	Spanish
	14:00	01:30	Phil & Ethics
Fri 29 Jun	09:00	02:00	Design & Technology
		01:30	Computer Science
	14:00	01:30	History

Revision Lists

**English Language Paper 2**

Topic/Skill	Activities/Websites that will help you 😊	What do I need to do for each question?
<p>Choose 4 correct statements out of 8</p> <p><b>Q1 – 4 marks</b></p>	<p>Read news articles, blogs and journal entries and bullet point the main ideas.</p> <p><a href="http://www.bbc.co.uk/news">http://www.bbc.co.uk/news</a>  <a href="http://news.sky.com/">http://news.sky.com/</a>  <a href="http://www.theguardian.com/uk">http://www.theguardian.com/uk</a></p>	<p>-One mark is awarded for each correct statement taken from the correct section of the text</p>
<p>Summarising two texts</p> <p><b>Q2 – 8 marks</b></p>	<p>Read non-fiction texts and practise identifying the implicit (indirect) information. Use the BBC Bitesize website below to practise:</p> <p><a href="http://www.bbc.co.uk/bitesize/standard/english/close_reading_exam/inference/revision/1/">http://www.bbc.co.uk/bitesize/standard/english/close_reading_exam/inference/revision/1/</a>  <a href="http://www.theguardian.com/uk">http://www.theguardian.com/uk</a>  <a href="http://www.independent.co.uk/voices/editorials">http://www.independent.co.uk/voices/editorials</a></p>	<p>-Making a point that answers the question                      -Providing quotations from the text to support and prove the point that you have made.                      -Explaining why that quote proves your point</p>
<p>Analysing language</p> <p><b>Q3 – 12 marks</b></p>	<p>Read non-fiction and identify writers' perspectives. Consider how they convey ideas through language and technique                      You might find this website useful:  <a href="https://www.bbc.com/education/guides/zq6vg82/revision">https://www.bbc.com/education/guides/zq6vg82/revision</a></p>	<p>-Make a point that answers the question                      -Provide quotations from the text to support and prove the point that you have made                      -Explain the writer's intentions in structuring the text in this way</p>
<p>Respond to two texts by comparing writers' attitudes and perspectives.</p> <p><b>Q4 – 16 marks</b></p>	<p>Read non-fiction and identify writers' perspectives. Consider how they convey them in different ways.                      You might find this website useful:  <a href="https://www.bbc.com/education/guides/zgd6p39/revision">https://www.bbc.com/education/guides/zgd6p39/revision</a>  <a href="https://www.bbc.com/education/guides/zxsck7h/revision">https://www.bbc.com/education/guides/zxsck7h/revision</a></p>	<p>-Identify the different attitudes of the writers.                      -Compare how writers convey these attitudes to the reader.                      -Provide evidence from across texts to support ideas.                      -Consider the impact on the reader.</p>
<p><b>Writing Section</b></p> <p><b>Q5 – 40 marks</b></p>	<p>Read non-fiction texts to gain knowledge of how writers' write. Ensure you know the following text types: letter, article, essay, leaflet, speech. And the following purposes: to explain, to argue, to advise, to persuade.</p> <p>You might find this website useful:  <a href="https://www.bbc.com/education/guides/zwt3rdm/revision">https://www.bbc.com/education/guides/zwt3rdm/revision</a></p>	<p>-Communicate their ideas clearly, effectively and imaginatively                      -Adapt the correct tone, style and register                      - Use a range of vocabulary for effect                      -Use a range of sentence structures effectively                      -Use accurate spelling                      -Use a range of punctuation for effect</p>

## English Literature

### Poetry

Topic/Skill	Activities/Websites that will help you 😊	What do I need to do for each question?
<b>Power and Conflict Poetry</b>  <b>30 marks</b>	Re-read <b>the Power and Conflict set of poems</b> to ensure you know each of them well. Revise poetic forms and terms as well as other techniques; link the poems together to practise comparison. Use the following website: <a href="http://www.bbc.co.uk/education/topics/z33qxsg">http://www.bbc.co.uk/education/topics/z33qxsg</a>	-Clearly answer the question, using its key words as a guide. -plan your ideas -Provide a range of evidence from each text -Analyse HOW both writers express these ideas -Compare the similarities and differences in each text -Link your ideas to context
<b>Unseen poetry</b>  <b>24 marks for question 1</b>  <b>8 marks for question 2</b>	Practise responding the unseen poetry by looking at new poems – you could do this by using the Love and Relationship cluster from your anthology.  Use the following website: <a href="http://www.bbc.co.uk/education/topics/z33qxsg">http://www.bbc.co.uk/education/topics/z33qxsg</a>	<b>Question 1:</b> - Plan your ideas - Clearly answer the question, using its key words as a guide. -Provide a range of evidence from each text -Analyse the different ways the poet expresses meanings -Try to identify patterns in the poem  <b>Question 2:</b> -Analyse and compare the different ways the poets present meanings -Provide evidence from both poems

## Year 10 Higher Mathematics Revision

Your next assessment for mathematics will be during term 6. This list covers both the calculator and non-calculator papers. (3 papers)

<b>Topics</b>		
<p>Non-calculator (Paper 1)</p> <ul style="list-style-type: none"> <li>• Expand single bracket</li> <li>• Standard form converting</li> <li>• Number as fraction of another with decimals</li> <li>• Faces on pyramids</li> <li>• Circles inside a square area problem</li> <li>• Comparing probabilities</li> <li>• Speed/Distance/Time</li> <li>• Ratio multiples</li> <li>• Perpendicular bisector</li> <li>• Repeated &amp; change</li> <li>• Pythagoras for diagonal of a square</li> <li>• Interquartile range meaning</li> <li>• Cosine values</li> <li>• One fraction as a fraction of another fraction</li> <li>• Venn Diagrams problem</li> <li>• Expand double brackets &amp; collecting terms</li> <li>• Change subject with fraction (+ new subject appears twice)</li> <li>• Circle equation meanings</li> <li>• Area of triangle (<math>\frac{1}{2}ab\sin C</math>)</li> <li>• Recurring decimal to a fraction</li> <li>• Reverse percentages</li> <li>• Indices Fractional/negative</li> <li>• Reverse probability from two events</li> <li>• Iterative formulae</li> <li>• Circle Theorem</li> <li>• Rationalise denominators</li> <li>• Surd Addition/simplification</li> <li>• Simultaneous equations with one quadratic</li> </ul>	<p>Calculator (Paper 2)</p> <ul style="list-style-type: none"> <li>• Nth term linear</li> <li>• % as a fraction</li> <li>• <math>Y=mx+c</math></li> <li>• Direct proportion equation</li> <li>• Spot errors in calc use</li> <li>• Solving inequalities</li> <li>• number line inequalities</li> <li>• Substitute into formula</li> <li>• Solve <math>x^2 = a</math></li> <li>• Ratio with part total</li> <li>• Congruent triangles</li> <li>• Volume of spheres</li> <li>• Use spheres to find dimensions of a cuboid</li> <li>• Number as % of another</li> <li>• Set up equations from triangle properties</li> <li>• Solve equation unknown both sides</li> <li>• Number of outcomes</li> <li>• Set up and solve area of triangle equation</li> <li>• Adding surds</li> <li>• Reverse compound interest with added money</li> <li>• Probability tree diagram</li> <li>• Probability and/or</li> <li>• Inequality graphs</li> <li>• Gradient of a line</li> <li>• Convert unit of pressure</li> <li>• Estimation from grouped frequency</li> <li>• Completing the square</li> <li>• Turning points</li> <li>• Right angled &amp; non-right angled trig</li> <li>• Histogram from cumulative frequency</li> </ul>	<p>Calculator (Paper 3)</p> <ul style="list-style-type: none"> <li>• Law of Indices (power/power)</li> <li>• Exterior polygon angles</li> <li>• Opposite Bearings</li> <li>• Pythagorean triple</li> <li>• Error Intervals</li> <li>• Basic Trig ratios</li> <li>• Similar shape lengths</li> <li>• Reverse Mean calculation</li> <li>• Sample Space probability</li> <li>• Formulae substitution</li> <li>• Value as % of another</li> <li>• Simultaneous Equations</li> <li>• Comparing data using %</li> <li>• Numbers in standard form</li> <li>• Two ratios with common part</li> <li>• Quadratic Formula</li> <li>• Set notation</li> <li>• Using calculator correctly</li> <li>• Percentage variance</li> <li>• Upper/lower bounds</li> <li>• Surds multiplication</li> <li>• Set-up equations</li> <li>• Expand double brackets</li> <li>• Simplify algebra</li> <li>• Gradient between points</li> <li>• Perpendicular gradients</li> <li>• Ratio to find a point on a line</li> <li>• Algebraic vectors</li> <li>• Parallel vectors</li> <li>• Direct proportion</li> <li>• Distance from speed time graph</li> </ul>
<p>Resources:</p> <p><a href="http://corbettmaths.com/">http://corbettmaths.com/</a> <a href="https://www.samlearning.com/">https://www.samlearning.com/</a> <a href="https://mymaths.co.uk/">https://mymaths.co.uk/</a> <a href="https://mrcartermaths.com/">https://mrcartermaths.com/</a>  <a href="W:\Mathematics\Maths Watch\Key Stage 4\MathsWatch (for 2017 exams onwards)">W:\Mathematics\Maths Watch\Key Stage 4\MathsWatch (for 2017 exams onwards)</a></p>		

These are full GCSE papers and may contain some topics you have not yet covered

## Year 10 Foundation Mathematics Revision

Your next assessment for mathematics will be during term 6. This list covers the calculator and non-calculator papers. (3 papers)

<b>Topics</b>		
<b>Non-calculator (Paper 1)</b> <ul style="list-style-type: none"> <li>• Multiples</li> <li>• Inequality signs</li> <li>• Solve 1 step equation</li> <li>• Show meaning of a term raised to a power</li> <li>• Bar chart → pictogram</li> <li>• Fraction of amount</li> <li>• Basic BIDMAS</li> <li>• Collect like terms</li> <li>• Ratio → fraction</li> <li>• Number machines (inc algebra)</li> <li>• One number as percentage of another</li> <li>• Nth term (picture sequence)</li> <li>• Ratio in context</li> <li>• Algebra angles in a triangle</li> <li>• Square numbers</li> <li>• Multiples in context</li> <li>• Substitution with brackets</li> <li>• Linear factorisation</li> <li>• Probability of 2 events</li> <li>• Networks</li> <li>• Speed/Distance/Time</li> <li>• Venn Diagrams</li> <li>• Ratio from total</li> <li>• Ratio from part total</li> <li>• Circles inside square are problem solving</li> <li>• Comparing probabilities</li> <li>• Standard Form</li> <li>• Repeated percentage change</li> <li>• Perpendicular bisector</li> <li>• Pythagoras for diagonal of a square</li> </ul>	<b>Calculator (Paper 2)</b> <ul style="list-style-type: none"> <li>• Probability</li> <li>• Units of speed</li> <li>• Calculate a power</li> <li>• Percentage of amount</li> <li>• Ratio of cost and quantity</li> <li>• Read a bar chart</li> <li>• Rounding to 10</li> <li>• Compound units (cost/litre)</li> <li>• Angles in special triangles</li> <li>• Frequency Tree</li> <li>• Relative frequency</li> <li>• Revenue from win/lose scenario</li> <li>• Calculating workers needed for a job</li> <li>• Percentage of amount</li> <li>• Properties of a square split into 2 equal rectangles</li> <li>• Find area from perimeter</li> <li>• Substitution into formulae</li> <li>• Standard form</li> <li>• Correct use of calculator on a given calculation</li> <li>• Solve inequality</li> <li>• Show inequality a on number line</li> <li>• Bearing problem solving</li> <li>• Find errors on a straight line graph</li> <li>• Solve <math>x^2 = a</math></li> <li>• Best buy with offers</li> <li>• Ratio from a part total</li> <li>• Congruent triangles</li> <li>• Volume of a sphere</li> <li>• Use spheres to find volume of box</li> <li>• 1 value as a percentage of another</li> </ul>	<b>Calculator (Paper 3)</b> <ul style="list-style-type: none"> <li>• FDP Conversion</li> <li>• Negative number value</li> <li>• Bank Statements</li> <li>• +/- negative numbers</li> <li>• Calculate probability</li> <li>• Label using probability</li> <li>• Ratio as a fraction</li> <li>• Fraction of amounts</li> <li>• Shapes on a grid</li> <li>• Inverse operations</li> <li>• Fraction → Ratio</li> <li>• Map Scale</li> <li>• Term-to-term sequence</li> <li>• Multi-step using conversions</li> <li>• Area of sector</li> <li>• Simple Interest</li> <li>• Area problem solving with rectangles</li> <li>• Difference of 2 squares</li> <li>• Solve equation with fraction</li> <li>• Angles in triangle/parallelogram</li> <li>• Co-interior angles</li> <li>• Error intervals</li> <li>• State a trig ratio</li> <li>• Similar shapes' lengths</li> <li>• <math>Y=mx+c</math></li> <li>• Reverse mean calculation</li> <li>• Sample space probability</li> <li>• Substitute into area formula given</li> <li>• One number as a percentage of another</li> <li>• Simultaneous Equations</li> <li>• Comparing data using percentages</li> </ul>
Resources: <a href="http://corbettmaths.com/">http://corbettmaths.com/</a> <a href="https://www.samlearning.com/">https://www.samlearning.com/</a> <a href="https://mymaths.co.uk/">https://mymaths.co.uk/</a> <a href="https://mrcartermaths.com/">https://mrcartermaths.com/</a> <a href="W:\Mathematics\Maths Watch\Key Stage 4\MathsWatch (for 2017 exams onwards)">W:\Mathematics\Maths Watch\Key Stage 4\MathsWatch (for 2017 exams onwards)</a>		

These are full GCSE papers and may contain some topics you have not yet covered

# Science

You will be sitting three 1 hour papers across all three sciences. The papers will be made up mostly of questions ranging from 1 mark to 4 marks. There will be one 6-mark question per exam paper and the trick is (as simple as this sounds) to write something! DO NOT LEAVE THE SIX-MARK QUESTIONS BLANK ☺

There is a folder on the shared area called Y10 Science Revision, and you should have been supplied with a revision booklet and revision cards from Mr Steggles' lecture.

## Biology – Wednesday 20<sup>th</sup> June 2018

Topic	Content	Example Question
Topic 1	Key Concepts in Biology	What is an enzyme? How do enzymes function? Where would you find pepsin? At what pH does pepsin work the best?
Topic 2	Cells and Control	Label a plant cell. Label an animal cell What is the function of a flagellum? What is the function of the ribosome? Describe Meiosis. Describe Mitosis. What is myelin sheath?
Topic 3	Genetics	For the DNA strand ATGTAGCC, give the complementary strand. What is a gene? What is the difference between a dominant and a recessive allele? Define the term Homozygous and Heterozygous.
Topic 4	Natural Selections and Genetic Modification	What is selective breeding? What does GM stand for and what is it used for?

## Chemistry – Thursday 21<sup>st</sup> June 2018

Topic	Content	Example Questions
Topic 1	Key Concepts in Chemistry Atomic structure Periodic table Ionic and Covalent Bonding Types of substance Calculations involving masses	Balance this equation $H_2 + O_2 \rightarrow H_2O$ How many electrons does a carbon atom have? How did Mendeleev predict missing elements? What is a covalent bond? Why can some substances conduct electricity? If 10g of chemicals react with 2 g of chemicals, what will be the total mass of the products?
Topic 2	States of matter and Mixtures Methods of separating and purifying substances	What is distillation? How does chromatography work?

## Physics – Monday 25<sup>th</sup> June 2018

Topic	Content	Example Question
Topic 1	Key Concepts in Physics	How do you recognise anomalous results?
Topic 2	Motion and Forces	How do you measure the speed of sound?
Topic 3	Conservation of energy	Name a renewable energy source.
Topic 4	Waves	What is refraction?
Topic 5	Light and the EMS	What are microwaves used for?

**Y10 GCSE PE**

<b>Topic</b>	<b>Content</b>
<b>Components of Fitness</b>	POWER CRAB F,ME,MS,CVF,S,BC Fitness tests
<b>Training Methods</b>	Interval Continuous Fartlek Plyometric Weight Fitness Classes Circuit
<b>Principles of Training</b>	FIRSTOP
<b>Performance Enhancing Drugs</b>	7 x Performance Enhancing Drugs, Benefits to performers and side effects
<b>Levers</b>	1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> class lever classification
<b>Injuries</b>	Fractures, Joint Injuries, Soft Tissue Injuries Symptoms & Treatment Preventing Injuries
<b>Muscular System</b>	Labelling the muscles Muscular Contractions Antagonistic Pairs Types of Muscles
<b>Skeletal System</b>	Structure and Function Joints, Ligaments & tendons Types of movement
<b>CV System</b>	Structure Function Blood Vessels Components of Blood

- Use your purple revision booklet and your folders to help you revise.
- Useful websites include; GCSE Bitesize, [www.mypeexam.org](http://www.mypeexam.org)
- Useful Youtube channels to subscribe to: The EverLearner, Planet PE.
- Kahoot codes below to help you revise

Kahoot Revision Codes GCSE PEOpen until 18<sup>th</sup> June 2018*You need to download the Kahoot app on your phone/ipad to complete*

<b>Topic</b>	<b>Code</b>
Components of Fitness	0986079
Cardiovascular System	0706055
Skeletal System 1	0518283
Skeletal System 2	0710195
Muscular Contractions	0254049
Muscular System	0440790
Drugs & Injuries	0889086
Methods of Training	0913428
Joints & Types of Movement	0594566
CV System 2	0191744



## Year 10 Philosophy and Ethics

You will have 2 examinations, each 1 ½ hours long

Paper 1 will be the work you have done with Mr Hellyer, Paper 2 the work you have done with Mrs Clark

### Paper 1

Religion and war	Just war Violence Terrorism
Religion and war case studies	Gandhi Martin Luther King Nelson Mandela
Christian beliefs	Nature of God Different beliefs about creation Jesus and salvation
Christina practices	Worship – places How Christians worship Baptism Eucharist
Festivals	Christmas Easter

### Paper 2

God and the Trimurti	Beliefs about Brahman Vishnu, Shiva and Brahma Symbols of these gods
Other deities	Symbols of Ganesha, Saraswati, Krishna, Durga
Worship	Mandir – what does it look like inside Shrines in the home Shrines in the Mandir How Hindus worship
Marriage	Christian and Hindu marriage ceremonies Vows made Why marriage is important Why people get married
Sexual relationships	Sex outside marriage Contraception Same sex relationships
The family	Why families are important Roles of Men and women in the family Castes (varnas)

**Geography**

## **Food**

You have a copy of the AQA GCSE revision guide. Revision materials will focus on pages from this book and/or sections from the DYNAMIC LEARNING website.

DYNAMIC LEARNING website details

Web link - <https://my.dynamic-learning.co.uk/>

Use name – The same as your school login

Password – password

Centre ID - 16817

If you can't access this from PC's at home you will be able to use it in tutor time, in the library and the computers in A04 are available for your use from 3:30 until 4:30 on Monday, Tuesday and Wednesdays.

Section A – 20 multiple choice questions

1. Food, nutrition and health

4 multiple choice questions – Revision guide pages 20 - 25

2. Food Safety

4 multiple choice questions – Revision guide pages 58 – 67

3. Food Science – Bread making

4 multiple choice questions – Revision guide page 14

4. Food provenance

4 multiple choice questions – Revision guide pages 96 – 97

5. Food choices

4 multiple choice questions – Revision guide pages 76 – 77

Section B – Long answer questions (80 marks available)

6. Diet, nutrition and health - Revision guide pages 20 - 31

7. Cooking food - Revision guide pages 40 - 47

8. Food provenance – Revision guide pages 94 -95 (Food waste) and 98 – 99 (Sustainability)

9. Understanding recipes - Revision guide page 30 -31 (Coronary heart disease)

10. Food preparation and safety - Revision guide page 48 (raising agents in choux pastry) and 47 (emulsification)

### Dynamic Learning Website

A lesson called “Y10 June Assessment” has been allocated. This contains a range of quizzes to complete covering the topics on the assessment paper.

## **DT**

You have a copy of the AQA GCSE revision guide. Revision materials will focus on pages from this book and/or sections from the FOCUS Learning website which you all have access to.

FOCUS Learning website details

Web link - [www.focuselearning.co.uk](http://www.focuselearning.co.uk)

Use name - student@landauforte31299

Password - m2i8ehfyi

If you can't access this from PC's at home you will be able to use it in tutor time, in the library and the computers in A04 are available for your use from 3:30 until 4:30 on Monday, Tuesday and Wednesdays.

Section A – Core Technical principles

Questions 1 – 10 multiple choice

Questions 11 – 13 short answer

1. Electronic systems – Revision guide page 10
2. Forces - Revision guide page 60
3. Properties of metals - Revision guide page 66 – FOCUS - DT materials Data base (metals)
4. Production Methods - Revision guide page 62
5. Material properties – Natural or man-made - Revision guide page 60 – 70
6. Smart Materials - Revision guide page 72 – FOCUS – Smart, modern and composite materials – Smart Materials
7. Impact on society - Revision guide page 126
8. Properties of Plastics - Revision guide page 68 - DT materials Data base (plastics)
9. Levers - Revision guide page 48 – FOCUS – Focus on mechanisms
10. Properties of wood - Revision guide page 64 – FOCUS - DT materials Data base (wood)
11. Properties of natural fibres (textiles) - Revision guide page 70
12. Properties of paper and boards - Revision guide page 62
13. Production of energy - Revision guide page 46 – FOCUS - Energy use and the environment

Section B – Specialist technical principles

All long answer questions

14. Material stock forms (you choose a material) - Revision guide page 60 – 73 - FOCUS - DT materials Data base
15. Reinforcing materials - Revision guide page 80 – 81
16. Mass production process (you choose a product) – Revision guide page 92 - 103 – FOCUS – Focus on metals, Focus on plastics
17. Materials properties (You choose a product and material) - Revision guide page 60 – 73 - FOCUS - DT materials Data base
18. Impact on society - Revision guide page 122

Section C – Designing and making principles

All long answer questions.

This section is all about the design and making process – Revision guide pages 22 – 35

## Spanish

You will be sitting 3 papers in Listening, Reading and Writing. There will be a variety of gap fill, multiple choice and open ended questions across all three papers. Don't leave any questions blank!

### Spanish Week beginning 18th June 2018 Writing

Topic	Content	Example Question
Theme 1	Identity and Culture	<p>Tu amiga Veronica te pregunta sobre el deporte y tus planes para el fin de semana. Escribe una respuesta a Veronica</p> <p>Debes incluir los puntos siguientes</p> <ul style="list-style-type: none"><li>- Que deportes haces y por que</li><li>- Que deporte practicaste o viste recientemente</li><li>- Por qué los deportistas son buenos modelos a seguir</li><li>- Los planes que tienes para este fin de semana</li></ul> <p><b>Escribe aproximadamente 80-90 palabras.</b></p>
Theme 2	Local area holiday and travel	<p>Estas de vacaciones en la montaña. Publicas esta foto en una red social para tus amigos. Describe la foto y da tu opinión sobre las vacaciones de invierno. <b>Escribe aproximadamente 20-30 palabras.</b></p>
Theme 3	School	<p>Tu amiga Maya va a visitar tu colegio. Escríbele un correo electrónico. Debes incluir los siguientes puntos</p> <ul style="list-style-type: none"><li>- Como es tu colegio</li><li>- Que hiciste la semana pasada en una clase</li><li>- Tus opiniones sobre las normas</li><li>- Lo que vas a hacer en tu colegio durante su visita.</li></ul> <p><b>Escribe aproximadamente 80-90 palabras</b></p>
Theme 4	Future aspirations study and work	<p>Quieres pasar el verano trabajando en España. Escribe un anuncio para una pagina web</p> <p>Debes incluir los siguientes puntos</p> <ul style="list-style-type: none"><li>- Qué tipo de persona eres</li><li>- Por qué quieres trabajar en España</li><li>- Lo que hiciste en tus prácticas laborales</li><li>- Los planes que tienes para el futuro</li></ul> <p><b>Escribe aproximadamente 80-90 palabras.</b></p>
Theme 5	International global dimension	<p>Tu profesora te ha pedido escribir un artículo para una revista.</p> <p>Debes incluir los puntos siguientes</p> <ul style="list-style-type: none"><li>- Como cuidas el medio ambiente</li><li>- Tu opinión sobre cuál es el problema global más serio</li><li>- Un evento solidario reciente en tu zona</li><li>- Y tus planes para ayudar en el futuro</li></ul> <p><b>Escribe aproximadamente 80-90 palabras.</b></p>

## Spanish – Thursday 28th June 2018 Listening & Reading

Topic	Content	Example Question
<b>Theme 1</b>	Identity and Culture	<p>Listen to the recording and put a cross in the three correct boxes</p> <p>When exactly does the festival take place?</p> <p>To prepare for the party on Saturday she will need to go to the _____?</p> <p>Espera vivir con su _____</p>
<b>Theme 2</b>	Local area holiday and travel	<p>Why is cycling in Fuerteventura recommended?</p> <p>What is the temperature like?</p> <p>Why avoid parking at the railway station?</p> <p>What is the hotel like?</p>
<b>Theme 3</b>	School	<p>What does Miguel like about school? Give two details</p> <p>What does Maria say about homework?</p> <p>Who finds languages difficult?</p>
<b>Theme 4</b>	Future aspirations study and work	<p>What did a university degree guarantee in the past?</p> <p>Summarise how the world of work has changed for young people</p>
<b>Theme 5</b>	International global dimension	<p>¿cuál es el Proyecto ideal? Escoge entre Rio, Playa, Bosque o Ciudad</p> <p>Some students are talking about volunteering in Latin America. What do they do? Put a cross in the three correct boxes</p>

## **History**

What to study:

1. Part 1: American People And “The Boom”
2. Part 2: American’s Experiences Of The Depression And The New Deal
3. Part 3: Post War America

<b>American people and “The Boom”</b>	<b>Bust-America’s experiences of the Depression and the New Deal</b>	<b>Post –War America</b>
<ul style="list-style-type: none"> <li>• Benefits</li> <li>• Advertising and consumerism</li> <li>• Hire purchase</li> <li>• Mass production(Ford)</li> <li>• Inequalities of wealth</li> <li>• Republican government policies</li> <li>• Stock market boom</li> <li>• Cultural developments in entertainment :cinema and jazz</li> <li>• Women in society(flappers)</li> <li>• Divisions with-organised crime</li> <li>• Prohibition and impact</li> <li>• Racial tension</li> <li>• Immigration</li> <li>• KKK</li> <li>• Red Scare</li> <li>• Sacco and Vanzetti case</li> </ul>	<ul style="list-style-type: none"> <li>• Society-unemployment</li> <li>• Farmers</li> <li>• Businessmen</li> <li>• Hoover’s response and unpopularity</li> <li>• Roosevelt’s election</li> <li>• New Deal-successes and limits</li> <li>• Opposition to the New Deal</li> <li>• Roosevelt’s contribution</li> <li>• Popular culture</li> <li>• Impact of WW2</li> <li>• Economic recovery</li> <li>• Lend Lease</li> <li>• Exports</li> <li>• Social developments</li> <li>• African American s and women</li> </ul>	<ul style="list-style-type: none"> <li>• Society and economy- consumerism and prosperity</li> <li>• The American Dream</li> <li>• Rock and Roll and TV</li> <li>• Racial tension</li> <li>• Segregation laws</li> <li>• Martin Luther King</li> <li>• Malcolm X and the Black Power Movement</li> <li>• Civil Rights Acts of 1964 and 1968</li> <li>• Great society-social policies</li> <li>• JFK/Johnson on education and health</li> <li>• Feminist movement impact in 1970s</li> <li>• Equal pay</li> <li>• National organisation for Women</li> <li>• Roe vWade(1973)</li> <li>• SUPREME Court ruling on equal rights in 1972 and Opposition to the amendment</li> </ul>

### Section A-Period Study-America 1920-73

- 6 compulsory questions worth 40 marks

### Section B

- 4 compulsory questions worth 40 marks B-Conflict and tension

### 1.1 Systems Architecture

- The purpose of the CPU
- Von Neumann architecture:
  - MAR (Memory Address Register)
  - MDR (Memory Data Register)
  - Program Counter
  - Accumulator
- Common CPU components and their function:
  - ALU (Arithmetic Logic Unit)
  - CU (Control Unit)
  - Cache

### 1.2 Memory

- The difference between RAM and ROM
- The need for virtual memory

### 1.3 Storage

- The need for secondary storage
- Common types of storage:
  - Optical
  - Magnetic
  - Solid state

### 1.4 Wired and Wireless Networks

- Types of networks:
  - LAN (Local Area Network)
- Factors that affect the performance of networks
- The different roles of computers in a client-server and a peer-to-peer network

### 1.6 System Security

- Forms Of Attack
- Threats Posed To Networks:
  - The Concept Of SQL Injection

### 2.1 Algorithms

- Computational Thinking:
  - Abstraction
  - Decomposition
  - Algorithmic Thinking
- How To Produce Algorithms Using:
  - Pseudocode
- Interpret, Correct Or Complete Algorithms

### 2.2 Programming Techniques

- The Use Of Variables, Constants, Operators, Inputs, Outputs And Assignments
- The Use Of The Three Basic Programming Constructs Used To Control The Flow Of A Program:
  - Sequence
  - Selection
  - Iteration (Count And Condition Controlled Loops)



- How To Use Sub Programs (Functions And Procedures) To Produce Structured Code
- The Use Of Data Types:
  - Integer
  - Real
  - Boolean
  - Character And String
  - Casting

**2.4 Computational Logic**

- Why Data Is Represented In Computer Systems In Binary Form

Useful websites

<https://www.bbc.co.uk/education/subjects/z34k7ty>

<http://www.teach-ict.com/> ( student login in: b774ff password: network5 )

**Geography**

**Topic 1: Distinctive Landscapes**

<b>3.1. What makes a landscape distinctive?</b>		<b>Scale</b>
a. What is a landscape?	<ul style="list-style-type: none"> <li>• How the concept of a landscape can be defined, including the differences between built and natural landscapes.</li> </ul>	R, L, F
b. Where are the physical landscapes of the UK?	<ul style="list-style-type: none"> <li>• Overview of the distribution of upland, lowland and glaciated landscapes in the UK.</li> </ul>	N
	<ul style="list-style-type: none"> <li>• Overview of the characteristics of these landscapes which make them distinctive including their geology, climate and human activity.</li> </ul>	

<b>3.2. What influences the landscapes of the UK?</b>		
a. What physical processes shape landscapes?	<ul style="list-style-type: none"> <li>• The geomorphic processes that are involved in shaping landscapes, including weathering (mechanical, chemical, biological), mass movement (sliding, slumping), erosion (abrasion, hydraulic action, attrition, solution), transport (traction, saltation, suspension, solution), deposition.</li> <li>• The formation of coastal landforms including headlands, bays , cave, arch, stack, beach and spit.</li> <li>• The formation of river landforms including waterfall, gorge, v-shaped valley, floodplain, levee, meander, ox-bow lake.</li> </ul>	L, F
b. What are the characteristics of your chosen landscapes?	<ul style="list-style-type: none"> <li>• <b>Case study of two</b> landscapes in the UK, <b>one</b> coastal landscape and <b>one</b> river basin, to include the study of:               <ul style="list-style-type: none"> <li>◦ its landforms created by geomorphic processes</li> <li>◦ the geomorphic processes operating at different scales and how they are influenced by geology and climate</li> <li>◦ how human activity, including management, works in combination with geomorphic processes to impact the landscape.</li> </ul> </li> </ul>	R, L, F

## Topic 2: Ecosystems

4.1. Why are natural ecosystems important?		Scale
a. What are ecosystems?	<ul style="list-style-type: none"> <li>Understand the concept of an ecosystem as being the interdependence of climate, soil, water, plants and animals.</li> </ul>	
	<ul style="list-style-type: none"> <li>Outline the global distribution of polar regions, coral reefs, grasslands, temperate forests, tropical forests and hot deserts.</li> </ul>	G
	<ul style="list-style-type: none"> <li>Overview of the climate, flora and fauna within these ecosystems.</li> </ul>	G
4.2. Why should tropical rainforests matter to us?		
a. What biodiversity exists in tropical rainforests?	<ul style="list-style-type: none"> <li>The distinctive characteristics of a tropical rainforest ecosystem, including the climate, nutrient cycle, soil profile and water cycle.</li> <li>The interdependence of climate, soil, water, plants, animals and human activity in tropical rainforests.</li> </ul>	R, L
b. Why are tropical rainforests being 'exploited' and how can this be managed sustainably?	<ul style="list-style-type: none"> <li>Explore the value of tropical rainforests through the study of their goods and services.</li> </ul>	G, R, N, L
	<ul style="list-style-type: none"> <li>Human impacts in the tropical rainforest from activities such as logging, mineral extraction, agriculture and tourism.</li> </ul>	R, L
	<ul style="list-style-type: none"> <li><b>A case study</b> to illustrate attempts to sustainably manage an area of tropical rainforest, such as ecotourism, community programmes, biosphere reserves and sustainable forestry, at a local or regional scale.</li> </ul>	R, L
4.3. Is there more to polar environments than ice?		
a. What is it like in Antarctica and the Arctic?	<ul style="list-style-type: none"> <li>Outline the distinctive characteristics of Antarctica and the Arctic, including climate, features of the land and sea, flora and fauna.</li> </ul>	R, L
	<ul style="list-style-type: none"> <li>The interdependence of climate, soil, water, plants, animals and human activity in either the Antarctic or the Arctic polar region.</li> </ul>	R, L
	<ul style="list-style-type: none"> <li>Explore a range of impacts of human activity on either the Antarctic or the Arctic ecosystems, such as scientific research, indigenous people, tourism, fishing, whaling and mineral exploitation.</li> </ul>	R, L
b. How are humans seeking a sustainable solution for polar environments?	<ul style="list-style-type: none"> <li><b>A case study</b> to examine one small-scale example of sustainable management in either the Antarctic or the Arctic such as sustainable tourism, conservation and whaling.</li> <li><b>A case study</b> to examine one global example of sustainable management in either the Antarctic or the Arctic by investigating global actions such as Earth Summits or the Antarctic Treaty.</li> </ul>	G, R, L

## Topic 3: Dynamic Development

3.1. What makes a landscape distinctive?		Scale
a. What is a landscape?	<ul style="list-style-type: none"> <li>How the concept of a landscape can be defined, including the differences between built and natural landscapes.</li> </ul>	R, L, F
b. Where are the physical landscapes of the UK?	<ul style="list-style-type: none"> <li>Overview of the distribution of upland, lowland and glaciated landscapes in the UK.</li> </ul>	N
	<ul style="list-style-type: none"> <li>Overview of the characteristics of these landscapes which make them distinctive including their geology, climate and human activity.</li> </ul>	

3.2. What influences the landscapes of the UK?		
a. What physical processes shape landscapes?	<ul style="list-style-type: none"> <li>The geomorphic processes that are involved in shaping landscapes, including weathering (mechanical, chemical, biological), mass movement (sliding, slumping), erosion (abrasion, hydraulic action, attrition, solution), transport (traction, saltation, suspension, solution), deposition.</li> <li>The formation of coastal landforms including headlands, bays, cave, arch, stack, beach and spit.</li> <li>The formation of river landforms including waterfall, gorge, v-shaped valley, floodplain, levee, meander, ox-bow lake.</li> </ul>	L, F
b. What are the characteristics of your chosen landscapes?	<ul style="list-style-type: none"> <li><b>Case study of two</b> landscapes in the UK, <b>one</b> coastal landscape and <b>one</b> river basin, to include the study of:               <ul style="list-style-type: none"> <li>its landforms created by geomorphic processes</li> <li>the geomorphic processes operating at different scales and how they are influenced by geology and climate</li> <li>how human activity, including management, works in combination with geomorphic processes to impact the landscape.</li> </ul> </li> </ul>	R, L, F

#### Topic 4: Urban Futures

5.1. Why do more than half the world's population live in urban areas?		Scale
a. How is the global pattern of urbanisation changing?	• How urban growth rates vary in parts of the world with contrasting levels of development.	G
	• Outline characteristics of world cities and megacities and their changing distribution since 1950.	G
b. What does rapid urbanisation mean for cities?	• Understand the causes of rapid urbanisation in LIDCs, including the push and pull factors of rural-urban migration and internal growth.	G, R, N, L
	<ul style="list-style-type: none"> <li>Investigate the consequences of rapid urban growth in LIDCs.</li> <li>Understand the causes and consequences of contrasting urban trends in ACs, including suburbanisation, counter-urbanisation and re-urbanisation.</li> </ul>	N, L

## 5.2. What are the challenges and opportunities for cities today?

This enquiry question is studied through case studies of one city in an AC and one city in an LIDC or EDC to answer sub-questions a and b.

a. What is life like for people in a city?	<ul style="list-style-type: none"><li>• The city's location and importance within its region, the country, and the wider world.</li><li>• Patterns of national and international migration and how this is changing the growth and character of the city.</li><li>• Explore the ways of life in the city, such as culture, ethnicity, housing, leisure and consumption.</li><li>• Investigate the contemporary challenges that affect life in the AC city, such as housing availability, transport provision, access to services and inequality.</li><li>• Investigate the contemporary challenges that affect life in the LIDC or EDC city, such as squatter settlements, informal sector jobs, health or waste disposal.</li></ul>	G, R, N, L, F
b. How can cities become more sustainable?	<ul style="list-style-type: none"><li>• For <b>each city</b> investigate <b>one</b> initiative to make it more sustainable, such as use of brownfield sites, waste recycling and transport improvements.</li></ul>	L, F