Year 10 – Revision List

Assessment Window 2

Tuesday 13th June – Friday 29th 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 6th 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
	1	1	
Mon 11 Jun	All Day	10D	
Thu 14 Jun	All Day	10C and 10A	Art Practical

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
	09:00	01:30	English Literature
Tue 26 Jun	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
	09:00	02:00	Design & Technology
Fri 29 Jun		01:30	Computer Science
	14:00	01:30	History

Revision Lists

English Language Paper 2

		1
Topic/Skill	Activities/Websites that will help you ©	What do I need to do for each
Choose 4 correct	Read news articles, blogs and journal entries	-One mark is awarded for each
statements out	and bullet point the main ideas.	correct statement taken from the
of 8	http://www.bbc.co.uk/news	correct section of the text
Q1 – 4 marks	http://news.sky.com/	
	http://www.theguardian.com/uk	
Summarising	Read non-fiction texts and practise	 Making a point that answers the
two texts	identifying the implicit (indirect) information.	question
	Use the BBC Bitesize website below to	-Providing quotations from the text
Q2 – 8 marks	practise:	to support and prove the point that
	http://www.bbc.co.uk/bitesize/standard/eng	vou have made.
	lish/close reading exam/inference/revision/	-Explaining why that quote proves
	1/	vour point
	-/	year pente
	http://www.independent.co.uk/voices/edito	
	rials	
Analycing	Road non fiction and identify writers'	Make a point that answers the
languago	nerspectives. Consider how they convey	
language	ideas through language and technique	question
02 12	Ideas through language and technique	-Provide quotations from the text to
Q3 – 12 marks	You might find this website useful:	support and prove the point that you
	https://www.bbc.com/education/guides/zq6	have made
	vg82/revision	-Explain the writer's intentions in
		structuring the text in this way
Respond to two	Read non-fiction and identify writers'	-Identify the different attitudes of the
texts by	perspectives. Consider how they convey	writers.
comparing	them in different ways.	 Compare how writers convey these
writers'	You might find this website useful:	attitudes to the reader.
attitudes and	https://www.bbc.com/education/guides/zgd	-Provide evidence from across texts
perspectives.	6p39/revision	to support ideas.
	https://www.bbc.com/education/guides/zxs	-Consider the impact on the reader.
Q4 – 16 marks	<u>ck7h/revision</u>	
Writing Section	Read non-fiction texts to gain knowledge of	-Communicate their ideas clearly,
Q5 – 40 marks	how writers' write. Ensure you know the	effectively and imaginatively
	following text types: letter, article, essay,	-Adapt the correct tone, style and
	leaflet, speech. And the following purposes:	register
	to explain, to argue, to advise. to persuade.	- Use a range of vocabulary for effect
	, , , , , , , , , , , , , , , , , , , ,	-Use a range of sentence structures
	You might find this website useful:	effectively
	https://www.bbc.com/education/guides/zwt	-Use accurate spelling
	3rdm/revision	-Use a range of nunctuation for effect
	1	

English Literature

<u>Poetry</u>

Topic/Skill	Activities/Websites that will help you 😊	What do I need to do for
		each question?
Power and	Re-read the Power and Conflict set of poems to ensure	-Clearly answer the
Conflict	you know each of them well. Revise poetic forms and	question, using its key
Poetry	terms as well as other techniques; link the poems together	words as a guide.
	to practise comparison. Use the following website:	-plan your ideas
30 marks	http://www.bbc.co.uk/education/topics/z33qxsg	-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
Unseen	Practise responding the unseen poetry by looking at new	Question 1:
poetry	poems – you could do this by using the Love and	- Plan your ideas
	Relationship cluster from your anthology.	- Clearly answer the
24 marks for		question, using its key
question 1	Use the following website:	words as a guide.
	http://www.bbc.co.uk/education/topics/z33qxsg	-Provide a range of
8 marks for		evidence from each text
question 2		-Analyse the different ways
		the poet expresses
		Tru to identify nottorns in
		the near
		Question 2:
		-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)

Topics				
 Non-calculator (Paper 1) Expand single bracket Standard form converting Number as fraction of another with decimals Faces on pyramids Circles inside a square area problem Comparing probabilities Speed/Distance/Time Ratio multiples Perpendicular bisector Repeated & change Pythagoras for diagonal of a square Interquartile range meaning Cosine values One fraction as a fraction of another fraction Venn Diagrams problem Expand double brackets & collecting terms Change subject with fraction (+ new subject appears twice) Circle equation meanings Area of triangle (1/2absinC) Reverse percentages Indices Fractional/negative Reverse probability from two events Iterative formulae Circle Theorem Rationalise denominators Surd Addition/simplification Simultaneous equations with one quadratic 	Calculator (Paper 2) Nth term linear % as a fraction Y=mx+c Direct proportion equation Spot errors in calc use Solving inequalities number line inequalities Substitute into formula Solve x² = a Ratio with part total Congruent triangles Volume of spheres Use spheres to find dimensions of a cuboid Number as % of another Set up equation sfrom triangle properties Solve equation unknown both sides Number of outcomes Set up and solve area of triangle equation Adding surds Reverse compound interest with added money Probability tree diagram Probability and/or Inequality graphs Gradient of a line Convert unit of pressure Estimation from grouped frequency Completing the square Turning points Right angled & non-right angled trig Histogram from cumulative frequency 	Calculator (Paper 3) Law of Indices (power/power) Exterior polygon angles Opposite Bearings Pythagorean triple Error Intervals Basic Trig ratios Similar shape lengths Reverse Mean calculation Sample Space probability Formulae substitution Value as % of another Simultaneous Equations Comparing data using % Numbers in standard form Two ratios with common part Quadratic Formula Set notation Using calculator correctly Percentage variance Upper/lower bounds Surds multiplication Set-up equations Expand double brackets Simplify algebra Gradient between points Perpendicular gradients Ratio to find a point on a line Algebraic vectors Parallel vectors Direct proportion Distance from speed time graph 		
http://corbettmaths.com/ https://www.samlearning.com/ https://mymaths.co.uk/ https://mrcartermaths.com/ W:\Mathematics\Maths Watch\Key Stage 4\MathsWatch (for 2017 exams onwards)				
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)

Topics				
 Non-calculator (Paper 1) Multiples Inequality signs Solve 1 step equation Show meaning of a term raised to a power Bar chart → pictogram Fraction of amount Basic BIDMAS Collect like terms Ratio → fraction Number machines (inc algebra) One number as percentage of another Nth term (picture sequence) Ratio in context Algebra angles in a triangle Square numbers Multiples in context Substitution with brackets Linear factorisation Probability of 2 events Networks Speed/Distance/Time Venn Diagrams Ratio from total Ratio from part total Circles inside square are problem solving Comparing probabilities Standard Form Repeated percentage change Perpendicular bisector Pythagoras for diagonal of a square 	 Calculator (Paper 2) Probability Units of speed Calculate a power Percentage of amount Ratio of cost and quantity Read a bar chart Rounding to 10 Compound units (cost/litre) Angles in special triangles Frequency Tree Relative frequency Revenue from win/lose scenario Calculating workers needed for a job Percentage of amount Properties of a square split into 2 equal rectangles Find area from perimeter Substitution into formulae Standard form Correct use of calculator on a given calculation Solve inequality Show inequality a on number line Bearing problem solving Find errors on a straight line graph Solve x² = a Bust buy with offers Ratio from a part total Congruent triangles Volume of a sphere Use spheres to find volume of box 1 value as a percentage of another 	Calculator (Paper 3) • FDP Conversion • Negative number value • Bank Statements • +/- negative numbers • Calculate probability • Label using probability • Ratio as a fraction • Fraction of amounts • Shapes on a grid • Inverse operations • Fraction → Ratio • Map Scale • Term-to-term sequence • Multi-step using conversions • Area of sector • Simple Interest • Area of sector • Simple Interest • Area problem solving with rectangles • Difference of 2 squares • Solve equation with fraction • Angles in triangle/parallelogram • Co-interior angles • Error intervals • State a trig ratio • Similar shapes' lengths • Y=mx+c • Reverse mean calculation • Sample space probability • Substitute into area formula given • One number as a percentage of another • Simultaneous Equations • Comparing data using percentages		
Resources: http://corbettmaths.com/ https://www.samlearning.com/ https://mymaths.co.uk/ https://mrcartermaths.com/ W:\Mathematics\Maths Watch\Key Stage 4\MathsWatch (for 2017 exams onwards)				

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 ^(C)

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.

Торіс	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	What is selective breeding?
	Modification	What does GM stand for and what is it used for?

Biology – Wednesday 20th June 2018

Chemistry – Thursday 21st June 2018

Торіс	Content	Example Questions
Topic 1	Key Concepts in Chemistry	Balance this equation $H_2 + O_2 \rightarrow H_2O$
	Atomic structure	How many electrons does a carbon atom have?
	Periodic table	How did Mendeleev predict missing elements?
	Ionic and Covalent Bonding	What is a covalent bond?
	Types of substance	Why can some substances conduct electricity?
	Calculations involving masses	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	What is distillation?
	Methods of separating and	How does chromatography work?
	purifying substances	

Physics – Monday 25th June 2018

Торіс	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

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

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

Kahoot Revision Codes GCSE PE

Open until 18th June 2018

You need to download the Kahoot app on your phone/ipad to complete

Торіс	Code
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 1/2 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)

<u>Geography</u>

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/

<u>Use name – The same as your school login</u>

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)
- 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.

<u>DT</u>

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 - <u>www.focuselearning.co.uk</u>

<u>Use name - student@landauforte31299</u>

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
- 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
- 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!

Topic	Content	Example Question
Theme 1	Identity and Culture	 Tu amiga Veronica te pregunta sobre el deporte y tus planes para el fin de semana. Escribe una respuesta a Veronica Debes incluir los puntos siguientes Que deportes haces y por que Que deporte practicaste o viste recientemente Por qué los deportistas son buenos modelos a seguir Los planes que tienes para este fin de semana Escribe aproximadamente 80-90 palabras.
Theme 2	Local area holiday and travel	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. Escribe aproximadamente 20-30 palabras.
Theme 3	School	 Tu amiga Maya va a visitar tu colegio. Escribele un correo electronico. Debes incluir los siguientes puntos Como es tu colegio Que hiciste la semana pasada en una clase Tus opiniones sobre las normas Lo que vas a hacer en tu colegio durante su visita. Escribe aproximadamente 80-90 palabras
Theme 4	Future aspirations study and work	 Quieres pasar el verano trabajando en España. Escribe un anuncio para una pagina web Debes incluir los siguientes puntos Qué tipo de persona eres Por qué quieres trabajar en España Lo que hiciste en tus prácticas laborales Los planes que tienes para el futuro Escribe aproximadamente 80-90 palabras.
Theme 5	International global dimension	 Tu profesora te ha pedido escribir u articulo para una revista. Debes incluir los puntos siguientes Como cuidas el medio ambiente Tu opinión sobre cuál es el problema global más serio Un evento solidario reciente en tu zona Y tus planes para ayudar en el futuro Escribe aproximadamente 80-90 palabras.

Spanish Week beginning 18th June 2018 Writing

Spanish – Thursday 28th June 2018 Listening & Reading

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

<u>History</u>

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

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

OCR Computer Science Year 10.2 tracking assessment

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)
 - C 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:
 - O Optical
 - O Magnetic
 - O 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

- O Computational Thinking:
 - O Abstraction
 - Decomposition
 - O Algorithmic Thinking
- How To Produce Algorithms Using:
 - O 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)

O How To Use Sub Programs (Functions And Procedures) To Produce Structured Code

- □ The Use Of Data Types:
 - Integer
 - C Real
 - Boolean
 - □ Character And String
- Casting

2.4 Computational Logic

U 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

3.1. What makes a landscape distinctive?		Scale
a. What is a landscape?	 How the concept of a landscape can be defined, including the differences between built and natural landscapes. 	R, L, F
b. Where are the physical landscapes of the UK?	• Overview of the distribution of upland, lowland and glaciated landscapes in the UK.	N
	 Overview of the characteristics of these landscapes which make them distinctive including their geology, climate and human activity. 	

3.2. What in	fluences the landscapes of the UK?	
a. What physical processes shape landscapes?	 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. The formation of coastal landforms including headlands, bays, cave, arch, stack, beach and spit. The formation of river landforms including waterfall, gorge, v-shaped valley, floodplain, levee, meander, ox-bow lake. 	L, F
b. What are the characteristics of your chosen landscapes?	 Case study of two landscapes in the UK, one coastal landscape and one river basin, to include the study of: its landforms created by geomorphic processes the geomorphic processes operating at different scales and how they are influenced by geology and climate how human activity, including management, works in combination with geomorphic processes to impact the landscape. 	R, L, F

Topic 2: Ecosystems

4.1. Why are	e natural ecosystems important?	Scale
a. What are ecosystems?	 Understand the concept of an ecosystem as being the interdependence of climate, soil, water, plants and animals. 	
	 Outline the global distribution of polar regions, coral reefs, grasslands, temperate forests, tropical forests and hot deserts. 	G
	• Overview of the climate, flora and fauna within these ecosystems.	G
4.2. Why sh	ould tropical rainforests matter to us?	
a. What biodiversity exists in tropical rainforests?	 The distinctive characteristics of a tropical rainforest ecosystem, including the climate, nutrient cycle, soil profile and water cycle. The interdependence of climate, soil, water, plants, animals and human activity in tropical rainforests. 	R, L
b. Why are tropical rainforests being 'exploited' and how can this be managed sustainably?	• Explore the value of tropical rainforests through the study of their goods and services.	G, R, N, L
	 Human impacts in the tropical rainforest from activities such as logging, mineral extraction, agriculture and tourism. 	R, L
	• A case study 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.	R, L

4.3. Is there more to polar environments than ice?

a. What is it like in Antarctica and the Arctic?	•	Outline the distinctive characteristics of Antarctica and the Arctic, including climate, features of the land and sea, flora and fauna.	R, L
	•	The interdependence of climate, soil, water, plants, animals and human activity in either the Antarctic or the Arctic polar region.	R, L
	•	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.	R, L
b. How are humans seeking a sustainable solution for polar environ- ments?	•	 A case study to examine one small-scale example of sustainable management in either the Antarctic or the Arctic such as sustainable tourism, conservation and whaling. A case study 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. 	G, R, L

Topic 3: Dynamic Development

3.1. What makes a landscape distinctive?		Scale
a. What is a landscape?	• How the concept of a landscape can be defined, including the differences between built and natural landscapes.	R, L, F
b. Where are • the physical	• Overview of the distribution of upland, lowland and glaciated landscapes in the UK.	N
landscapes of the UK?	• Overview of the characteristics of these landscapes which make them distinctive including their geology, climate and human activity.	

3.2. What in	3.2. What influences the landscapes of the UK?			
a. What physical processes shape landscapes?	 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. The formation of coastal landforms including headlands, bays , cave, arch, stack, beach and spit. The formation of river landforms including waterfall, gorge, v-shaped valley, floodplain, levee, meander, ox-bow lake. 	F		
b. What are the characteristics of your chosen landscapes?	 Case study of two landscapes in the UK, one coastal landscape and one river basin, to include the study of: its landforms created by geomorphic processes the geomorphic processes operating at different scales and how they are influenced by geology and climate how human activity, including management, works in combination with geomorphic processes to impact the landscape. 	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	• How urban growth rates vary in parts of the world with contrasting levels of development.	G
pattern of urbanisation changing?	• 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
	 Investigate the consequences of rapid urban growth in LIDCs. Understand the causes and consequences of contrasting urban trends in ACs, including suburbanisation, counter-urbanisation and re-urbanisation. 	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?	 The city's location and importance within its region, the country, and the wider world. Patterns of national and international migration and how this is changing the growth and character of the city. Explore the ways of life in the city, such as culture, ethnicity, housing, leisure and consumption. Investigate the contemporary challenges that affect life in the AC city, such as housing availability, transport provision, access to services and inequality. Investigate the contemporary challenges that affect life in the LIDC or EDC city, such as squatter settlements, informal sector jobs, health or waste disposal. 	G, R, N, L, F
b. How can cities become more sustainable?	• For each city investigate one initiative to make it more sustainable, such as use of brownfield sites, waste recycling and transport improvements.	L, F