

## YEAR 8 REVISION TOPICS

### BIOLOGY

<b>FITNESS AND HEALTH</b>
● Relate fitness systems to the human body
● Fitness is different for different individuals
● Balanced diet requires carbohydrates, fats, proteins, vitamins, minerals and water in the correct proportions
● What the components of a balanced diet are used for in the body
● Different people have different energy requirements
● The effects of alcohol on the functioning of the body
● Different classes of drug
● The effect of different drugs on the functioning of the body
<b>HEART AND CIRCULATION</b>
● The need for a circulatory system in animals
● Structure and function of arteries, veins and capillaries
● The structure of the mammalian heart and labels
● Circulation of blood through the heart
● Identification of the right and left side of heart
<b>BONES AND JOINTS</b>
● How simple joint function
● Structure of a synovial joint
● Names of the bones of the forearm
● Antagonistic muscles
<b>THE DIGESTIVE SYSTEM</b>
● Structure of the human gut
● Role of the different regions of the gut
● Breakdown of the three main food groups
● Peristalsis
● Structure of a villus
● Absorption in the small intestine
● Model gut experiment
● Enzymes and digestion
● The conditions required for enzymes to work efficiently
<b>THE REPRODUCTIVE SYSTEM</b>
● Structure and function of the male reproductive organs
● Structure and function of the female reproductive organs
● Fertilisation

### CHEMISTRY

The following topics are to be assessed and additional information on each can be found in the RGS Chemistry specification as shared with you via Google Chemistry site accessible via the QR code below



- pH and indicators
- acids and neutralisation
- patterns of reactivity
- fuels and global warming
- carrying out an investigation (denture tablet investigation, for example)

**Key concepts** introduced in Year 7 are examinable, e.g, writing word equations, safety, carrying out experiments and separation techniques.

## **CLASSICAL CIVILISATION**

Mrs Pizutti's' topic: **Gods and Heroes**

- Everything covered in Tales of the Greek Heroes by Roger Lancelyn Green, chapters 7, 8, 9, 10, 12, 13, 14, 15, 16 (Perseus, Heracles, Theseus, Jason, Atlanta)
- the 12 Olympian Gods - iconography and jobs
- what makes a hero

Mrs Dicks' topic: **Greek History**

Key elements and periods of Greek History:

- Minoans
- Mycenaeans (not Linear B)
- The Dark Ages
- Athens including:
  - different political systems
  - the features of democracy (boule, ekklesia, dikasteria, ostracism)
  - The City Dionysia
  - Greek theatre building
  - "Antigone" and "The Wasps" and what these show us about Greek beliefs and democracy.
- Alexander the Great

## **ENGLISH**

### **The Pearl**

Students are studying *The Pearl* this half term, focusing on closely analysing key extracts in preparation for their End of Year exam. They need to **learn a range of quotations** from the novella to support their response in the exam.

The exam will consist of one extract question which students will need to consider critically using their knowledge of language and its effects. They should choose key quotations from the extract, considering the theme presented in the question, and present a strong literary argument using supporting quotes from elsewhere in the novella. They should use the PQA structure to explore the effects of Steinbeck's choices closely and should link to key historical context using a critical academic register.

Refer to the Department Website for more information:

<https://sites.google.com/rgshw.com/rgs-english/ks3/year-8>

## **FRENCH**

Anything we have done this year may come up. You should revise the topics below for the End of Year exam. You can access the textbook and vocabulary lists on ActiveLearn, vocab is also on Quizlet. You should also look back at the notes in your exercise book and can revise grammar and practise reading and listening on languagenut.

topic	Grammar	Vocabulary
Dynamo 1 module 5	-er verbs aller futur proche faire	<a href="#">point de depart</a> , <a href="#">mots essentiels</a> , <a href="#">unit 1</a> , <a href="#">unit 2</a> , <a href="#">unit 3</a> , <a href="#">unit 4</a> , <a href="#">unit 5</a> .
Dynamo 2 Module 1	avoir and être perfect tense of regular verbs perfect tense of boire, prendre, voir, faire negative in the perfect tense words for "in"	<a href="#">point de depart</a> , <a href="#">mots essentiels</a> , <a href="#">unit 1</a> , <a href="#">unit 2</a> , <a href="#">unit 3</a> , <a href="#">unit 4</a> , <a href="#">unit 5</a>
Dynamo 2 module 2	-ir and -re verbs forming questions vouloir partitives	<a href="#">point de depart</a> , <a href="#">mots essentiels</a> , <a href="#">unit 1</a> , <a href="#">unit 2</a> , <a href="#">unit 3</a> , <a href="#">unit 4</a> , <a href="#">unit 5</a>
Dynamo 2 module 3 - up to unit 3.2	questions futur proche	<a href="#">point de depart</a> , <a href="#">mots essentiels</a> , <a href="#">unit 1</a> , <a href="#">unit 2</a> ,

## **GEOGRAPHY**

Please use the checklist below to direct your revision:

- Topic 1- Hydrology and Rivers
  - Key terms and definitions for the water cycle
  - Key terms and definitions for a drainage basin
  - Characteristics and formation of upper course erosional landforms (V-shaped valleys and interlocking spurs, waterfall and gorges)
  - Characteristics and formation of middle and lower course depositional landforms (meanders, oxbow lakes, floodplains, levees and deltas)
  - Human uses of rivers
  - Physical and human causes of flooding
  - Economic, social and environmental impacts of flooding
  - Hard and soft engineering strategies for managing flooding
  
- Topic 2 - Geology and energy use in the UK
  - Rock types (igneous, metamorphic and sedimentary) - characteristics and formation
  - How rock type influences UK energy production

- Topic 3 - Europe and Population Issues
  - Location and capital cities of European countries
  - Interpreting population pyramids to show population structure
  - Push and pull factors in migration
  - Social, economic and political impacts of migration
  - Demographic transition, including definition of ageing population and its impacts
  
- Topic 4 - Oceans
  - Location of the world's major oceans and ocean currents
  - Characteristics of ocean currents, including their importance
  - Characteristics of El Nino
  - Threats to oceans: plastic pollution and overfishing
  - Strategies for protecting oceans from threats caused by human activity, including Marine Protection Areas (MPAs)

The end of year exam is made up of questions you have already answered on end of topic tests.

### **GERMAN**

Anything we have done this year may come up. You can access the Echt 1 textbook on Kerboodle (institution code: so4) and all vocabulary lists on Quizlet: <https://quizlet.com/class/28797279/materials> You should also look back at the notes in your exercise book and can revise grammar and practise reading and listening on languagesonline and languagenut.

<b>Unit</b>	<b>Vocabulary</b>	<b>Grammar</b>
<b>Hallo Echt Unit 1</b>	<ul style="list-style-type: none"> <li>● Greetings; introduce yourself and spell your name (alphabet)</li> <li>● Numbers, months</li> </ul>	<ul style="list-style-type: none"> <li>● pronouns</li> <li>● regular verb conjugation</li> <li>● haben and sein</li> </ul>
<b>Meine Familie Echt Unit 2</b>	<ul style="list-style-type: none"> <li>● Family</li> <li>● Pets</li> <li>● Colours</li> <li>● Descriptions of self and others (physical and personality)</li> </ul>	<ul style="list-style-type: none"> <li>● Noun plurals</li> <li>● genders of nouns</li> <li>● nominative and accusative case (indefinite article/possessives)</li> <li>● adjective agreement</li> </ul>
<b>Meine Freizeit Echt Unit 3</b>	<ul style="list-style-type: none"> <li>● Free time activities, including sports and musical instruments</li> <li>● Hobbies and opinions: talk about what you like doing and prefer doing, and what your favourite hobby is</li> <li>● Say how often you do something (time phrases)</li> </ul>	<ul style="list-style-type: none"> <li>● Gern, nicht gern, lieber, am liebsten</li> <li>● Present tense of regular verbs and irregular verbs</li> <li>● coordinating conjunctions (und, denn, aber)</li> <li>● Word order with time phrases (verb second rule)</li> </ul>
<b>Meine Schule Echt Unit 4</b>	<ul style="list-style-type: none"> <li>● Classroom objects; items in a school bag</li> <li>● school subjects and opinions</li> <li>● Ask and say what time it is; talk about school timetables</li> <li>● school rules</li> <li>● describing your school</li> <li>● school clubs</li> </ul>	<ul style="list-style-type: none"> <li>● nominative and accusative case (definite article)</li> <li>● subordinating conjunctions (weil, dass, obwohl)</li> <li>● man kann/darf + infinitive</li> </ul>

## **HISTORY**

Please revise the big enquiry questions you have been studying since September:

- How accurate was Shakespeare's interpretation of Richard III?
- Why was the Tudor period a time of religious turmoil?
- How far was King Charles I the worst English monarch?
- What can three locations reveal about the impact of the Transatlantic Slave Trade: Akan Kingdoms, Barbados, Bristol?

## **LATIN**

All work covered to date in Suburani Book 1 Chapters 1 – 10. This includes:

- Vocabulary checklists 1 - 10 (see pages 266 – 268 of textbook; also on website and under Resources on Teams)
- Grammar:
  - Verbs – present, imperfect, perfect tenses
  - Verbs – infinitive forms
  - Verbs – irregular verbs – volo, nolo, possum
  - Nouns – nominative, accusative, dative, ablative cases
  - Prepositions (with accusative and ablative)
  - Adjectives – superlative forms
  - Adjectives – 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> declension adjectives

Revision Help and Trainers:

- For vocabulary: [https://hands-up-education.org/suburani\\_full/activities/vt.html](https://hands-up-education.org/suburani_full/activities/vt.html)
- For verbs: [https://hands-up-education.org/suburani\\_full/activities/verbs.html?c=16](https://hands-up-education.org/suburani_full/activities/verbs.html?c=16)

## **MATHS**

<b>Half Term 1</b>	
Factors, Multiples and Primes	Prime Factorisation Highest Common Factor Lowest Common Multiple
Algebraic Expressions, Linear Equations and Inequalities	Collecting Like Terms Expanding Brackets Linear Equations with brackets Linear Equations with variable on both sides Re-arranging formulae Solving Linear Inequalities
Probability	Venn Diagrams Two Variable Sample Spaces
Percentages	Calculating Percentages of quantity Calculating Percentage Increase and Decrease using decimal multiplier Calculating a percentage change
<b>Half Term 2</b>	
Sequences and nth term	Linear nth term Recognising and using expressions for other nth term sequences
Triangles	Similar Triangles Pythagoras

Circles	Circle Terminology and Introduction to pi Calculating Circumferences and Areas  Compound Shape Problems involving circles or parts of circles (Non calc and Calc)
Prisms	Metric units for areas and volume Volume of Prisms (incl. Cylinders) Surface Area of Prisms (incl. Cylinders)
<b>Half Term 3</b>	
Fractions	Review of Four Operations (proper fractions only) Addition and Subtraction Strategies with Improper and Mixed Numbers Multiplication and Division Strategies with Improper and Mixed Numbers
Straight Line and Quadratic Graphs	Equations of lines and curves (using a table of values) Gradient Intercepts $y=mx+c$ Parallel Lines
Scatter Graphs and Correlation	Correlation of a Scatter Graph and Interpreting Data Creating Scatter Graphs and Drawing Lines of Best Fit
Statistics of Frequency Tables	Mean of Frequency Tables Mode, Median, Range of Frequency Tables and Stem and Leaf Diagrams
<b>Half Term 4</b>	
Large Numbers, Powers of 10 and Standard Form	Indices Rules using Base 10 Rounding and Estimation Converting to and from Standard Form Adding and Subtracting in Standard Form Multiplying and Dividing of Numbers in Standard Form
Transformations	Translations Reflections Enlargements
<b>Half Term 5</b>	
Transformations (cont.)	Rotations
Ratios, Direct Proportion and Inverse Proportion	Map ratio Scale Drawing Linear Direct Proportion, their Graphs and Formulae Inverse Proportion
Constructions	Perpendicular Bisectors Angular Bisector Constructing Angles Constructing Triangles

## **PHYSICS**

Topic	Content
LIGHT	Reflection (including ray diagrams)
	Refraction (including ray diagrams)
	Primary and secondary colours of light
	Colour mixing and filters
HEAT TRANSFER	Energy types and transfers
	Particle model
	Conductions, convection and radiation
	Expansion and contraction
CIRCUITS 2: VOLTAGE	Revision of year 7 content: current and charge
	Understanding voltage
	Equations for current and voltage
	Connecting voltmeters
	Rules for current and voltage in series and parallel circuits
	Voltage in series and parallel circuits
PRESSURE	Understanding what is meant by 'pressure'
	Calculating pressure exerted between solids
	Liquid pressure
	Gas pressure
	Atmospheric pressure

## **SPANISH**

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Topic	Grammar	Vocabulary
Unit 1 Me presento	<ul style="list-style-type: none"> <li>- <i>tener</i> in the present tense</li> <li>- negatives</li> </ul>	<ul style="list-style-type: none"> <li>- greetings and asking people - how they are (1.2)</li> <li>- numbers 1-31 (1.3)</li> <li>- days of the week and months (1.4)</li> <li>- colours (1.5)</li> <li>- classroom items and stationery (1.6)</li> </ul>
Unit 2 Mi burbuja	<ul style="list-style-type: none"> <li>- possessive adjectives 'my, your, his, her'</li> <li>- Using adjective endings</li> <li>- verb <i>ser</i> in the present tense</li> </ul>	<ul style="list-style-type: none"> <li>- numbers 32-100 (2.1)</li> <li>- family members (2.2)</li> <li>- pets (2.3)</li> <li>- physical appearance (2.4&amp;2.5)</li> <li>- personality adjectives (2.6)</li> </ul>
Unit 3 Mis pasatiempos	<ul style="list-style-type: none"> <li>- <i>jugar</i> and <i>hacer</i> in the present tense</li> <li>- when to use <i>jugar</i> or <i>hacer</i> to talk about sports</li> </ul>	<ul style="list-style-type: none"> <li>things you do in your free time (3.1)</li> <li>sports (3.2)</li> <li>opinions and reasons (3.3)</li> <li>weather (3.4)</li> </ul>
Unit 4 Mi Casa	<ul style="list-style-type: none"> <li>- Using the verb 'vivir' in the present tense.</li> <li>- Using new adjectives to describe a home.</li> <li>- Using prepositions of place.</li> </ul>	<ul style="list-style-type: none"> <li>- areas where people live (4.1)</li> <li>- words for different types of places where people live. (4.2)</li> <li>- rooms in the house (4.3)</li> <li>- things in a bedroom (4.4)</li> </ul>
Unit 5 En mi ciudad	<ul style="list-style-type: none"> <li>- <i>ir</i> in the present tense</li> </ul>	<ul style="list-style-type: none"> <li>places in town (5.1)</li> </ul>