

## 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 TEAMS/Onenote and on Sharepoint:

- pH and indicators
- acids and neutralisation
- patterns of reactivity
- fuels and global warming
- carrying out an investigation (you did the denture tablet investigation as an example)

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

### CLASSICAL CIVILISATION

Mrs Dicks' 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)
- the 12 Olympian Gods - iconography and jobs
- what makes a hero

Mrs Gibb's topic: **Greek History**

Key elements and periods of Greek History:

- Minoans
- Mycenaeans (not Linear B)
- Archaic Greece
- Athens including: different political systems, democracy, ostracism, Greek theatre building, "Wasps" and what it shows us about Greek beliefs

**ENGLISH**

**The Pearl**

Students are revisiting *The Pearl* this half term, focusing on closely analysing key extracts in preparation for their End of Year 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. 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.

**FRENCH**

Students should revise the topics below for the End of Year exam. They can access the textbook and vocabulary lists on Kerboodle (institution code: SO4). grammar practice is on Languagesonline.

topic	Vocabulary	Grammar
en ville	-food and drink -healthy living -shops and shopping -quantities and prices -opinions	-re verbs -ir verbs partitives negatives
des projets	-countries and continents -sport	words for in and at partir aller+infinitive pouvoir+infinitive
jeunesse	-the Francophone world -your school -routines -a school trip -Louis XIV	prendre and compounds comparatives vouloir lire dire écrire
en famille	-personal information -greetings and introductions -helping at home -TV and books	perfect tense reflexives ce, cette, cet, ces

**GEOGRAPHY**

- Geology and energy use in the UK
- Hydrology and Rivers
- Europe and Population Issues
- Oceans

These are the general topics that will be examined, but please note that more detailed guidance will be given closer to the exams.

### **GERMAN**

Anything that we have done this year may come up. Use languages online extra, Quizlet, Wordwall links on Teams and your notes, and revise vocabulary on the topics above. Here is the link to the Year 8 Class on Quizlet: <https://quizlet.com/class/121865/> Students should revise the topics below for the End of Year exam. They can access the **ZOOM German 1** textbook and vocabulary lists on Kerboodle (institution code: SO4).

<b>Los geht's!</b>	<ul style="list-style-type: none"> <li>• Greetings</li> <li>• Introduction to Germany and German-speaking countries; names of towns and countries</li> </ul>	<ul style="list-style-type: none"> <li>• <i>Das ist ...</i></li> <li>• Gender: <i>ein, eine</i></li> </ul>
<b>Unit 0 Hallo!</b>	<ul style="list-style-type: none"> <li>• Greetings; introduce yourself and spell your name</li> <li>• Numbers up to 31; months</li> <li>• Say your age and birthday</li> <li>• Say which country you're from, where you live and what languages you speak</li> </ul>	<ul style="list-style-type: none"> <li>• The German alphabet</li> <li>• <i>Ich bin, du bist; ich habe, du hast</i></li> <li>• Word order in simple sentences</li> <li>• Ordinal numbers</li> <li>• <b>Extra Plus:</b> Masc. and fem. forms of nationalities</li> </ul>

<b>Unit 1A Meine Familie</b>	<ul style="list-style-type: none"> <li>• Family, brothers and sisters</li> <li>• Pets</li> <li>• Colours</li> <li>• Descriptions of self and others</li> </ul>	<ul style="list-style-type: none"> <li>• <i>Mein(e), dein(e)</i></li> <li>• Ich habe (k)ein(e)(n) ...</li> <li>• Er, sie, es</li> <li>• Noun plurals</li> <li>• Ich bin, du bist, er/sie/es ist + adjectives</li> </ul>
<b>Unit 1B Meine Schule</b>	<ul style="list-style-type: none"> <li>• Classroom objects; items in a school bag</li> <li>• Opinions of school subjects</li> <li>• Ask and say what time it is; talk about school timetables</li> <li>• Days of the week</li> </ul>	<ul style="list-style-type: none"> <li>• Gender: der, die, das</li> <li>• Ich habe (k)ein(e)(n) ...</li> <li>• Ich habe, du hast, er/sie hat, wir <i>haben</i></li> <li>• “Verb second” word order</li> </ul>
<b>Unit 2A Freizeit und Hobbys</b>	<ul style="list-style-type: none"> <li>• Sports and musical instruments</li> <li>• Hobbies: talk about what you like doing and prefer doing, and what your favourite hobby is</li> <li>• Say how often you do something</li> </ul>	<ul style="list-style-type: none"> <li>• Gern, nicht gern, lieber, am liebsten</li> <li>• Present tense of a regular verb (spielen) and irregular verbs (fahren, lesen, sehen)</li> <li>• <i>Denn</i></li> <li>• How to say “them” (<i>sie</i>)</li> <li>• Word order with time phrases</li> </ul>
<b>Unit 2B Wo wohnst du?</b>	<ul style="list-style-type: none"> <li>• Countries, regions and the weather</li> <li>• Types of neighbourhood; types of houses; rooms in a house or flat; bedroom descriptions</li> <li>• Numbers up to 100</li> </ul>	<ul style="list-style-type: none"> <li>• Present tense of <i>wohnen</i></li> <li>• Prepositions + dative (einem/einer/einem, dem/der/dem)</li> <li>• Es gibt + accusative (einen/eine/ein)</li> </ul>
<b>Unit 3A Guten Appetit!</b>	<ul style="list-style-type: none"> <li>• Food: likes, dislikes and what you eat for different meals</li> <li>• Order a snack</li> <li>• Numbers up to 1000; quantities and packaging; food shopping</li> <li>• Healthy eating</li> </ul>	<ul style="list-style-type: none"> <li>• “Verb second” word order</li> <li>• Ich möchte + noun</li> <li>• Singular and plural nouns (units of quantity)</li> <li>• Man soll + infinitive</li> <li>• Ich esse + kein(e)(n) ...</li> </ul>

### What to revise for listening and reading?

Anything that we have done this year may come up. Use quizlet, teams and your notes and revise vocabulary on the topics above.

### What to revise for writing?

The writing section has 5 parts:

**Part 1** answering basic questions about yourself covering the topics above

**Part 2** correcting vocabulary errors in sentences

**Part 3** completing sentences with the correct form of the verb in the present tense

**Part 4** completing sentences with the correct noun

**Part 5** 90 word writing task. You will need to show that you can answer the bullet points using varied vocabulary, opinions, connectives, and verbs in present.

For all of these tasks you should revise the vocabulary and grammar listed above. Make sure you know your verbs and how to conjugate in the present tense (regular and irregular).

### 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>	
Number Rules, Prime Factorisation and HCF/LCM	Divisibility Rules Prime Factorisation Highest Common Factor Lowest Common Multiple
Algebraic Expressions, Linear Equations and Inequalities	Collecting Like Terms Expanding Brackets Linear Equations with variable on both sides Linear Equations with brackets Solving Linear Inequalities
Probability	Mutually Exclusive and Exhaustive Outcomes Two Variable Sample Spaces
Percentages	Calculating Percentages of quantity Calculating Percentage Increase and Decrease using decimal multiplier
<b>Half Term 2</b>	
Sequences and nth term	Linear nth term review Recognising and using expressions for other nth term sequences
Triangles	Similar Triangles Congruent Triangles Pythagoras
Circles	Circle Terminology and Introduction to pi Calculating Circumferences and Areas  Compound Shape Problems involving circles or parts of circles
Prisms	Review Area of Polygons Surface Area of Prisms (incl. Cylinders) Volume of Prisms (incl. Cylinders)

<b>Half Term 3</b>	
Fractions	Review of Four Operations (proper fractions only)
Fractions cont.	Addition and Subtraction Strategies with Improper and Mixed Numbers Multiplication and Division Strategies with Improper and Mixed Numbers
Straight Line Graphs	Lines and their Equations Gradient Intercepts $y=mx+c$ Parallel Lines
Scatter Graphs and Correlation	Creating Scatter Graphs and Drawing Lines of Best Fit Correlation of a Scatter Graph and Interpreting Data
Statistics of Frequency Tables	Mode, Median, Range of Frequency Tables Mean of Frequency Tables
<b>Half Term 4</b>	
Large Numbers, Powers of 10 and Standard Form	Multiplying and Dividing of Decimals and Large Numbers Converting to and from Standard Form Adding and Subtracting in Standard Form Power Rules using Base 10 Multiplying and Dividing of Numbers in Standard Form
Transformations	Translations Reflections Enlargements
Transformations (cont.)	Rotations
<b>Half Term 5</b>	
Ratios, Direct Proportion and Inverse Proportion	Map ratio Scale Drawing Linear Direct Proportion Linear Direct Proportion Graphs and Formulae  Inverse Proportion
Constructions	Constructing Triangles Perpendicular Bisectors Angular Bisector Constructing Angles

## **PHYSICS**

Topic	Content
LIGHT	Reflection & refraction ray diagrams
	Colour
HEAT TRANSFER	Energy types and transfers
	Particle model

	Conductions, convection and radiation
	Expansion and contraction
CIRCUITS 2: VOLTAGE	Voltage as energy carried by the charge
	Connecting voltmeters
	Voltage in series and parallel circuits
PRESSURE	Solid pressure
	Liquids & gases - pressure at depth
	Atmospheric pressure

## Spanish

### What to revise for listening and reading?

Anything that we have done this year may come up. Use quizlet, teams and your notes and revise vocab on these topics:

- Pencil case objects
- Family members
- Pets
- Ages and months
- Physical description
- Personality traits
- Sports and hobbies
- Likes and dislikes
- Weather
- Rooms in the house
- Places in town

### What to revise for writing?

The writing paper has 3 parts:

**Part 1.** 90 word writing task. You will need to show that you can answer the bullet points using varied vocab, opinions, connectives, when expressions and verbs in present and immediate future tense.

**Part 2.** You will have to translate some sentences into English and into Spanish on any topic covered this year.

**Part 3.** You will have to conjugate in Present Tense one AR verb, one ER verb and one IR verb. Relearn the endings for these verbs, you can use this [link](#).