

Thornhill College

Junior School Revision Guide February 2019



YEAR 10



Table of Contents

Exam Timetable.....	3
Exam Regulations for Pupils.....	4
Plan your Revision.....	5
How to Revise	6
Year 10 French	7
Year 10 Geography.....	8
Year 10 RE	9
Year 10 Gaeilge/Irish.....	10
Year 10 Maths.....	11
Year 10 Spanish.....	12
Year 10 Technology & Design	13
Year 10 English	14
Year 10 History.....	15
Year 10 Science	16
Prayer for Exams	18

Exam Timetable

YEAR 10							
Monday 11 th February	Study Day						
Tuesday 12 th February	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">French</td> <td style="width: 50%; text-align: right;">9.30 – 10.35</td> </tr> <tr> <td>Geography</td> <td style="text-align: right;">11.35 – 12.35</td> </tr> <tr> <td>Religion</td> <td style="text-align: right;">2.40 – 3.40</td> </tr> </table>	French	9.30 – 10.35	Geography	11.35 – 12.35	Religion	2.40 – 3.40
French	9.30 – 10.35						
Geography	11.35 – 12.35						
Religion	2.40 – 3.40						
Wednesday 13 th February	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Irish</td> <td style="width: 50%; text-align: right;">9.25 – 12.00</td> </tr> <tr> <td>Maths</td> <td style="text-align: right;">2.40 – 3.40</td> </tr> </table>	Irish	9.25 – 12.00	Maths	2.40 – 3.40		
Irish	9.25 – 12.00						
Maths	2.40 – 3.40						
Thursday 14 th February	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Spanish</td> <td style="width: 50%; text-align: right;">9.30 – 10.15</td> </tr> <tr> <td>T&D</td> <td style="text-align: right;">11.35 – 12.35</td> </tr> <tr> <td>English</td> <td style="text-align: right;">2.25 – 3.40</td> </tr> </table>	Spanish	9.30 – 10.15	T&D	11.35 – 12.35	English	2.25 – 3.40
Spanish	9.30 – 10.15						
T&D	11.35 – 12.35						
English	2.25 – 3.40						
Friday 15 th February	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">History</td> <td style="width: 50%; text-align: right;">9.30 – 10.30</td> </tr> <tr> <td>Science</td> <td style="text-align: right;">11.35 – 12.35</td> </tr> <tr> <td colspan="2" style="text-align: center; background-color: #808080; color: white;">Spanish Play</td> </tr> </table>	History	9.30 – 10.30	Science	11.35 – 12.35	Spanish Play	
History	9.30 – 10.30						
Science	11.35 – 12.35						
Spanish Play							

Exam Regulations for Pupils

- On arrival at school, pupils should go to their allocated test room.
- Pupils must be in their appointed room throughout the session.
- Bags etc. must be left in a suitable area.
- Writing paper will be supplied. Pupils must bring all other necessary materials e.g. pen, pencil, rubber, ruler, calculator.
- Smart watches are not permitted and should be removed.
- The borrowing of materials will not be allowed.
- Pupils must be seated alphabetically.
- Only writing materials required for the test should be on the desk.
- There must be no communication between pupils once a test has begun.
- A pupil should raise her hand to attract the attention of the supervisor.
- Except in an emergency, no pupil is allowed to leave the room during a test.
- There is no breaktime during the tests. Where there is an interval between the tests, the supervisor may allow pupils out to the toilet one or two at a time. Pupils are expected to go to the nearest toilets and to return directly. Pupils should move quietly to and from the toilets, as other tests will still be going on.
- Lunchtime will run from 12.35 to 1.15. Pupils should use the Cafeteria or Junior Study as normal. All pupils must arrive back from lunch promptly.
- If a pupil indulges in unfair practice, the supervisor will take her paper and tell her to start again. Both papers will be given to the subject teacher but no mark or grade will be awarded.
- It is considered a very serious offence for a pupil to be absent for a test. Medical certificates will, of-course, provide acceptable evidence regarding absence.
- When a pupil has an exam during any session they are expected to be in the exam room/hall for the full length of the **session** regardless of when her particular exam starts/finishes. Pupils are advised to bring study material while waiting for their exam to start.

Plan your Revision

Planning and preparation is key to exam success. It is therefore essential that you plan your revision carefully to ensure adequate time to cover all the necessary material. A good way of doing this is to create a structured timetable allowing time to revise of all subjects as well as some relaxation time.

- Be focused: 45 minutes working followed by 15 minutes' break is a good starting point.
- Share your revision plan with friends/family then you are more likely to stick to it
- Be realistic and plan time away from your work to avoid burn-out.
- Don't worry about other students' revision plans, everyone does it differently!

Time Slot					
Monday					
Tuesday					
Wednesday					
Thursday					
Friday					
Saturday					
Sunday					

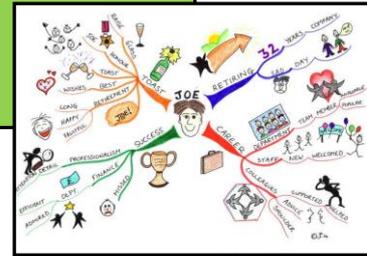
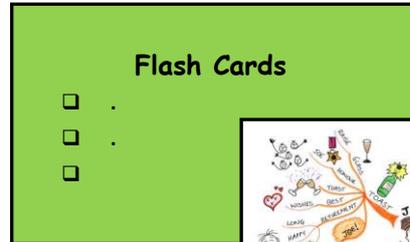
How to Revise

There are three easy steps to revise effectively.

1. The first step is to try **change**. By changing what is in our exercise books or textbooks into a different form, we kick start our brains into action – we start thinking about new ways of presenting and digesting the information and start learning.

Ways to change things:

- Spider diagrams
- Time-lines (for history)
- Mind maps
- Charts and flowcharts (for processes)
- Record yourself and play it back
- Flash cards
- Mnemonics
- Acronyms



2. We work best when we are faced with a **challenge**.



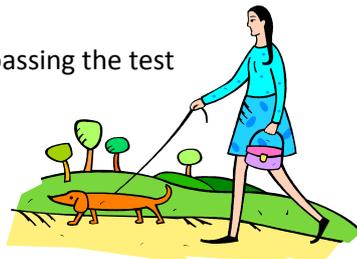
- Challenge yourself to really sort out a topic that you have found difficult.
- Taking a new approach creating a mnemonic or Mind Map may help
- Get someone to test you after you have learned something new.
- We learn extremely well when we have to teach someone else –try teaching one of your parents, a brother or sister or even your friends.
- Get them to ask you questions about what you have just taught them.

3. Don't forget to allow yourself some **treats**. Break up your revision sessions and plan some treats to look forward to: fruit, chocolate, a hot drink, glancing at a magazine, going for a walk...whatever will motivate you.



Relaxation is important to help you stop feeling the pressure of tests and getting stressed. Find a simple technique that works for you and practice using it when you are stressed or can't sleep.

- A warm bath
- Visualising yourself passing the test
- Brain gym exercises
- Deep breathing
- Mindfulness
- Meditating
- Going for a walk



Year 10 French	
Assessment Information	<ul style="list-style-type: none"> • Speaking Test – in class • Listening Test – in class • Reading Test - 35 minutes • Writing Test - 30 minutes
Revision Topics	<ol style="list-style-type: none"> 1. Numbers 1 - 100 2. Days, Months, Age, Birthday 3. Members of family 4. Describing people (size, hair, eyes, personality) 5. Animals 6. School subjects 7. Items in schoolbag, pencil-case 8. Telling the time 9. Hobbies, Activities, Sports (verbs) 10. Going places (je vais....au, à la, à l', en) 11. Food, drink, meals 12. Rooms in house, Things in the bedroom 13. Weather (il fait...) (dans le nord, sud, est, ouest) 14. Daily Routine 15. Helping at home / Pocket Money 16. Helping the environment
Study Resources	<p>Exercise Books Cahiers d'Activités (including <i>Expressions Clés</i> section) word-reference.com (online dictionary)</p>
Style of Questions	<p>Speaking Test - 9 questions Reading Test – Gap-filling, Pairing, Reading Comprehension Listening Test – Listening comprehension (ticking boxes, answering in English) Writing Test – Completing 2 short lists of vocabulary, Gap filling, Writing 3 short paragraphs</p>
Tips for Exam Success	<p>Plan your revision – each topic separately Practice vocabulary by writing and reading aloud. Take time to think before completing your answers Always check over your written work</p>
Exam Equipment	<p>Answers must be completed in BLACK or BLUE pen.</p>

Year 10 Geography	
Assessment Information	<ul style="list-style-type: none"> - 100% Examination - 1 hour Exam - There will be 3 marks on the test for QWC (Quality of Written Communication)
Revision Topics	<p><u>Topic 1 - Atlas Work & Time Zones</u></p> <ul style="list-style-type: none"> - 7 Continents & 5 Oceans - Mountain Ranges - Highest Mountain Peaks - Longest Rivers - Latitude & Longitude - Calculating Time Differences using Lines of Longitude <p><u>Topic 2 - The Dynamic Earth</u></p> <ul style="list-style-type: none"> - Cross Sectional Diagram of Earth - Plates - Convection Currents - Constructive, Destructive & Conservative Plate Boundaries - Evidence of Past Volcanic Activity in N. Ireland - The Giant's Causeway - UNESCO World Heritage Sites <p><u>Topic 3 - Volcanic Landscapes</u></p> <ul style="list-style-type: none"> - Volcanoes & Features - Volcanic Eruptions - Types of Volcanoes - Benefits & Hazards of Volcanoes - Predictions & Precautions - Case Study 2010 Eyafjallajökull Volcanic Eruption <p><u>Topic 4 - Development</u></p> <ul style="list-style-type: none"> - Development - North-South Divide - 7 Causes of World Poverty - Indicators of Development - LEDC's / MEDC's / NIC's - Globalisation & TNC's - Sweatshops / Ethical Fashion
Study Resources	<ul style="list-style-type: none"> - The specific learning objectives are outlined for each topic in your YSBAT's - Textbook "New Key Geography Interactions" - Notes and worksheets in your exercise book - Geography exam revision booklet
Style of Questions	<ul style="list-style-type: none"> - Label / names locations on maps - Draw diagrams to show a process / formation of a feature - Match up keywords and definitions - Give definitions, label diagrams and provide extended answers
Tips for Exam Success	<ul style="list-style-type: none"> - Check you can do everything on your YSBAT's - Write in full sentences. Take care with spelling, punctuation and grammar - Use resource material (graph / text etc) and quote it to support your answer - Read through your work when you have finished and check your answers - Judge the detail needed in answers by the marks available for the question - Take care when spelling key geographical terms
Exam Equipment	<ul style="list-style-type: none"> - Pencil, ruler, pens, rubber, sharpener, colouring pencils - Black or blue pen for writing

Year 10 RE	
Assessment Information	<ul style="list-style-type: none"> • 100% Examination 1 hour • Test is made up of knowledge, understanding and evaluation questions
Revision Topics	<ul style="list-style-type: none"> • Islam booklet and p138-159 text book, p56-66 workbook General Facts about Islam Keywords The Quran The Mosque Ramadan The 5 Pillars Clothing Food • Dignity of the Human Person p41-55 text book, p19-23 workbook Respecting the Dead in other World Faiths Catholic Belief about Life After Death The Wake and the Funeral Physical and Emotional Changes during Puberty • Friendship with God and Others p56-77 text book, p24-33 workbook Types of Friendship Friendship with God Prayer Garden of Gethsemane Trinity Rublev Icon • St Paul p173-186 text book, p54-57 workbook Information about St Paul Issues St Paul Addressed in his Letters
Study Resources	<ul style="list-style-type: none"> • Text book, Work book, Exercise book and Islam Booklet
Style of Questions	<ul style="list-style-type: none"> • There will be a range of questions from short answer, multiple choice, fill in the blanks, label diagrams, questions to assess understanding and evaluation. • There are 4 sections in total, marks are stated at the end of each question. • Answer questions according to the marks awarded, develop answer according to mark e.g. If there are 2 marks awarded explain two points that answer the question, if there are 6 marks awarded include 6 points that answer the question.
Tips for Exam Success	<ul style="list-style-type: none"> • Read over all of your class notes and workbook pages • Use your revision power points for guidance • Write in full sentences • Check your answers • Proof read and spell check • Make sure that you know the mark that each question is worth e.g. 5 • When answering evaluation questions give two points of view, give arguments for that statement and arguments against the statement. Support your answers with examples.
Exam Equipment	<ul style="list-style-type: none"> • Black pen

Year 10 Gaeilge/Irish	
Assessment Information	<ul style="list-style-type: none"> • Labhairt/Speaking 50% - [1 roleplay/conversation] • Léamh/Reading 25% • Scríobh/Writing**25%
Revision Topics	<ul style="list-style-type: none"> • Ag obair/ag caint/ag léamh/ ag troid srl • Mé Féin agus mo theaghlach / Myself and my family • An Aimsir Chaite / The Past Tense + Nóra • Slite Beatha, Postanna/Careers, Jobs • Year 8/9 material – eg. Dathanna / colours, An aimsir / Weather, Uimhreacha / Numbers, Siopadóireacht/ Shopping, Caitheamh Aimsire / Pastimes, An Scoil / School. Laethanta Saoire/ Holidays. <p>** Specific Revision for Scríobh/Writing = Foghlaim Litriú/Learn Spelling! 😊</p> <ul style="list-style-type: none"> • 5 names of shops • 5 school subjects • 5 pastimes • All spelling from Tracker 1 • Nóra (Aimsir Chaite/Past Tense, irregular) • Fáinne: Ceist _____.
Study Resources	You should use your Leabhar Gaeilge, Department Booklets and worksheets to help you with your revision. Remember that you will be examined in 3 Key Skills.
Style of Questions	<ul style="list-style-type: none"> • Oral questions – good pronunciation of answers - Fáinne. Role play. • Recognise meanings of items in Irish plus gap/column filling. • Match words or phrases correctly to pictures and prompts. • Translate words from Irish to English and English to Irish. • Reading Comprehension. True/False. • Spell items correctly in Irish and write full answers to prompts.
Tips for Exam Success	<p>The topic areas you will need to revise for your February Examinations are outlined above, in both Irish and English. Perhaps you could revise one or two ‘Bullet Points’ per night and the following day ask your Irish teacher any questions you might have. Irish teachers will be more than willing to help you with any material you do not understand. Tick off the topic areas when you know them.</p> <p>You could also ask a member of your family or extended family who can speak some Irish to help you or test you. Practise the Irish you are learning/revising by trying to speak/use it more around the house/school in practical situations – with your family, classmates, friends or Irish teachers. All this will help you do well in your Irish examinations, particularly in your Labhairt/Speaking.</p> <p style="text-align: right;">Ádh Mór Ort!</p>
Exam Equipment	<ul style="list-style-type: none"> • Pen

Year 10 Maths	
Assessment Information	<ul style="list-style-type: none"> • 1 Hour Exam • Overall mark: 100% exam
Revision Topics	Unit 1: Boundaries, Prime Factors and Percentages Unit 2: Indices and Number Work Unit 3: Straight Line Graphs Unit 4: Algebra Unit 5: Compound Measures Unit 6: 2D Trigonometry Unit 7: Area and Volume (Only points 1 and 2 on YSBAT)
Study Resources	Notebook and exercise book Unit booklets for each topic Revision booklet
Style of Questions	<ul style="list-style-type: none"> • Past paper questions (similar to all assessments and tests).
Tips for Exam Success	<ul style="list-style-type: none"> • Use the YSBAT sheet on the first page of every unit booklet to help revise the key points for each topic. • Go over all the examples in your notebook, learn the methods and do lots of questions when revising. • Read all questions carefully. • Use any remaining time during the exam to check your answers and calculations. • Always remember to show your full working out!
Exam Equipment	<ul style="list-style-type: none"> • Pen • Pencil • Ruler • Rubber • Calculator

Year 10 Spanish	
Assessment Information	<ul style="list-style-type: none"> • 20% LISTENING - Nov/Dec 20 min in class (already completed) • 20% SPEAKING - Jan- 5 min in class • 30% READING and 30% WRITING - February 45 minute exam <p>Test during Exam Week will assess Reading and Writing skills only. These marks will be added to the Speaking and Listening to calculate overall mark.</p>
Revision Topics	<p>CAMINOS 1 See Year 8+9 work, Vocabulary Sheets CAMINOS 2 UNIDAD 1-3 (Up to and including page 41 in Text Book see below)</p> <p>UNIDAD 1 LA ROPA (P.4-17)</p> <ul style="list-style-type: none"> • <u>1A ¿Qué llevas?</u> (P.4) Los colores (P.5) <p>¿Qué llevas al instituto/ te gusta llevar el fin de semana/ en las vacaciones? (P.6) Los adjetivos (P.7)</p> <ul style="list-style-type: none"> • <u>1B ¿Qué desea?</u> La Tienda de Ropa (P.8,9) <p>Este, ese, aquel etc.- Demonstrative adjectives (P.10) Más que, menos que. El más, la más etc. - Comparisons (P.11)</p> <ul style="list-style-type: none"> • <u>1C ¿Qué te parece?</u> (P.12) <p>Ropa de moda (P.13) Lo/la/los/las - Pronouns (P.15) Agreement of adjectives o/a/os/as (P.16,17)</p> <p>UNIDAD 2 TIEMPO LIBRE (P.18-33)</p> <ul style="list-style-type: none"> • <u>2A ¿Qué deportes practicas?</u> (P.18,19) <p>Me chifla, me da igual, odio (P.19,20)</p> <ul style="list-style-type: none"> • <u>2B ¿Qué haces en tu tiempo libre?</u> Y ¿Cuándo? (P.22) <p>Present tense Verbs (P.23) Practico...Escucho...Salgo...Voy...Toco...Soy...Navego...Veo</p> <ul style="list-style-type: none"> • <u>2C ¿Por qué te gusta?</u> (P.26,27) mas adjetivos (P.27) <p>UNIDAD 3A LA COMIDA (P.34-41)</p> <ul style="list-style-type: none"> • <u>3A ¿Cuándo/dónde desayunas, comes, meriendas, cenas etc.?</u> (P.34,35,36) • <u>3B ¿Qué tomas?</u> List of food (P.38-P41)
Study Resources	<p>Year 8&9 work and Vocabulary booklets Year 10 Vocabulary Booklet and Speaking Test Sheet Caminos 2 Textbook , Cuaderno, Worksheets</p>
Style of Questions	<ul style="list-style-type: none"> • Listening - Answer questions on Spanish recordings (Choose the correct picture / Verdad/mentira, gap filling etc.) • Speaking - Talk about 2 (pre-prepared) topics La <u>Ropa</u> and <u>Mi Tiempo Libre</u> – 1 min (50-100 words) on each • Reading - Understand all words from Spanish to English - Match up questions and answers / Choose the correct word or picture / Read and answer questions from a text in Spanish • Writing exam –write lists of words or phrases, answer short questions, translate into Spanish, essay (Essay will be prepared in class in advance)
Tips for Exam Success	<ul style="list-style-type: none"> • When revising, learn all vocabulary fully- look, cover, write and check. • In the Reading exam take your time, work it out! • Write in full sentences where necessary / Organise into paragraphs • Proof read and spell check all answers. Take care with the grammar and accuracy of your work e.g. adjectival agreement.
Exam Equipment	<ul style="list-style-type: none"> • Black/blue pen

Year 10 Technology & Design	
Assessment Information	<ul style="list-style-type: none"> • 45 Minute Exam • Overall mark: 100% exam
Revision Topics	<ol style="list-style-type: none"> 1. Health & Safety Section (<i>booklet page 19 to 27.</i>) 2. Structures – two categories - three types – know examples (<i>booklet page 88 to 94.</i>). 3. Forces with a focus on tension and compression (<i>booklet page 94 to 106.</i>). 4. Be able to measure in millimetres 5. Know and be able to identify tools found in the manufacturing room including the use of the plane (<i>booklet page 53 to 66.</i>). 6. Technical comprehension question: read short set text before answer set questions. 7. Design Task: be able to design a range of trinket boxes and develop one to present for the client - colour and notes of explanation (or annotation) required for full marks.
Study Resources	Class Booklet (Page Numbers provided above)
Style of Questions	<p>Short Answer Questions Label Diagrams Identify Items Identify by name tools. Design & other drawing answers to include 2D and 3D drawings/sketches techniques with dimensions and rendering (shading) where appropriate.</p>
Tips for Exam Success	<p>Create personal notes for each revision point on the list above. Study and learn your notes which you may refine and/or develop as you continue to prepare. Sketch, shade and annotate two items everyday: stationary, furniture, storage, transport, sport, musical instruments...</p>
Exam Equipment	<ul style="list-style-type: none"> • A range of pens • At least a sharp HB Pencil though another if not all from the following list would be beneficial: 2H, H, & B. • A selection of colour pencils. • A pencil sharpener and a rubber. • A 300mm ruler.

Year 10 English	
Assessment Information	<ul style="list-style-type: none"> • 100% Examination • Duration of exam: 1 hour and 15 minutes
Revision Topics	<ul style="list-style-type: none"> • Poetry • Persuasive Writing
Study Resources	<ul style="list-style-type: none"> • Poetry Workbook • Persuasive Writing Workbook • Reading any fiction book of a good standard
Style of Questions	<ul style="list-style-type: none"> • In Section A you will be asked to write an essay on one of the poems you have studied. • In Section B you will be asked to identify and give examples of persuasive/rhetorical devices. • In Section C you will be asked to write a persuasive speech or article using rhetorical/persuasive devices.
Tips for Exam Success	<ul style="list-style-type: none"> • Write in full sentences and give as much detail as possible. • In your extended response to poetry ensure you write in detail and use quotations from the poem to support your points. • In your persuasive speech/article plan and structure your piece of writing. • In your persuasive speech/article, use as many rhetorical devices as possible to persuade and engage the reader. • Read over your work and check spelling, punctuation and grammar. • Make sure that you know how many marks each question is worth and spend the appropriate amount of time on it.
Exam Equipment	<ul style="list-style-type: none"> • Black pen • Additional pen/highlighter for annotation

Year 10 History	
Assessment Information	<ul style="list-style-type: none"> • 1 Hour Exam • Overall mark: 70% exam
Revision Topics	<ul style="list-style-type: none"> ❖ <u>INDUSTRIAL REVOLUTION</u> ❖ Domestic system ❖ Inventions to speed up the production of cloth (& inventor) ❖ William Scott & Derry's shirt industry ❖ <u>FACTORIES</u> ❖ Workers (age, gender, etc) ❖ Conditions in factories (hours worked, pay and conditions, discipline) ❖ <u>Lord Shaftsbury's</u> campaign to improve conditions in factories ❖ Primary sources: usefulness (date, author, motive) <li style="text-align: center;"><u>OR</u> ❖ <u>MINES</u> ❖ Increased demand for coal, dangers & safety devices ❖ Conditions in mines (including experiences of Trappers) ❖ <u>Lord Shaftsbury's</u> campaign to improve conditions in mines ❖ The Mines Act ❖ <u>TOWNS</u> ❖ Names of some industrial towns ❖ Over-crowding in towns ❖ Problems of waste and contaminated water ❖ Cholera AND Public Health Act (1848) ❖ Terraced housing for the Victorian working-classes ❖ <u>SUFFRAGETTES</u> ❖ Why women wanted the right to vote [pp 23, 27-28] ❖ The tactics of the Suffragettes {WSPU}, <ul style="list-style-type: none"> a.] peaceful tactics [pp 28-30] b.] more forceful tactics (including violence) [pp 32-33] c.] Hunger strikes and the Cat & Mouse Act [p. 37] ❖ Effects of the Suffragettes campaign on politicians, 1910 – 1914 [p. 38] ❖ Countess Marckievicz MP ❖ Emily Wilding Davison and the Suffragette Derby [pp 34-36] <ul style="list-style-type: none"> a.] Her intentions, b.] Her actions c.] Results of her death
Study Resources	<ul style="list-style-type: none"> • Textbook and exercise book
Tips for Exam Success	<ul style="list-style-type: none"> • Read all questions carefully.
Exam Equipment	<ul style="list-style-type: none"> • Pen

Year 10 Science	
Assessment Information	100% Examination e.g. 90 marks, 1 hour
Revision Topics	<p><u>Fit and Healthy (Respiration and Respiratory System)</u></p> <ul style="list-style-type: none"> • Identify and label the parts of the respiratory system, including nasal cavity, trachea, bronchus, bronchioles, lungs, alveolus, diaphragm, ribs, intercostal muscles. • Describe the stages involved in the mechanism of breathing • Compare the parts of a model of the lungs to the actual lungs. • Compare the composition of exhaled and inhaled air. • List and explain the features of the alveoli which aid gas exchange • Recall the word equation for respiration • Recall the tests for carbon dioxide; limewater and bicarbonate • Recognise a ciliated epithelial cell • Describe how cilia keep the trachea free of dust • Describe how exercise affects breathing rate and pulse rate. • List the 3 main components of cigarette smoke and describe how each one affects the body • Define “passive smoking” • Recall ways in which diet, exercise, smoking and drug-taking affects health. • Explain how smoking affects a foetus. • Explain the effects of lack of Vitamin C, Vitamin D, Protein and Iron on the body. • Explain how different types of drug affect the body; limited to depressant, hallucinogen, painkiller, stimulant and performance enhancer (examples of drugs not required) <p><u>Structure of the atom</u></p> <ul style="list-style-type: none"> • Draw the atomic structure of the first twenty elements. • Complete a table to show the properties of electrons, protons and neutrons in terms of their charge, mass and position. • Define the terms Atomic Number and Mass Number • Define isotope • Know that group 1 is called (alkali metals), group 7 (halogens), group 8/0 (noble gases). • Know that group number is directly linked to the number of electrons in outer shell. • understand how ideas about the atom changed over time with reference to the atom (Dalton), Plum Pudding Model (Thomson), Rutherford’s model of a nucleus surrounded by electrons and the discovery of the neutron by Chadwick, leading to today’s model of an atom <p><u>Pressure and Moments</u></p> <ul style="list-style-type: none"> • about pressure on solids and describe applications of this in everyday appliances • Pressure is equal to force divided by area ($P=F/A$) • Rearrangement of pressure formula required • about the principle of moments • to describe the operation of moments and use of a lever • how to investigate balance about a pivot • Understand the terms clockwise and anti-clockwise moments and show direction with arrows. <p><u>Electricity and Static Electricity</u></p> <ul style="list-style-type: none"> • to recognise some of the dangers associated with electricity and how to deal with it safely • Learn and draw circuit symbols for cells, batteries, ammeters, bulbs and switches • how to plan, build and explore circuits which include cells, batteries, ammeters, bulbs and switches • how to draw circuit diagrams

Year 10 Science	
Revision Topics Continued	<ul style="list-style-type: none"> • how to plan, build and explore series and parallel circuits and be able to give some advantages and disadvantages of these circuits • how to measure the current in a circuit and be able to identify that the electric current is the same at all points in a series circuit, and divides along the branches of a parallel circuit • Recall the location of the different charges within an atom • Recall that insulating materials can become charged by friction • Explain this in terms of movement of charge • Understand that it is only the negative charges (electrons) that are free to move • Understand that objects become positively charged when electrons are removed • Understand that an object with a surplus of electrons will be negatively charged • Recall dangers associated with the build-up of static charge • Recall some uses of static electricity in everyday life <p>Metals and Reactivity</p> <ul style="list-style-type: none"> • to explore the properties of metals e.g. lustre, malleability, ductility, sonorous, dense, conductivity of heat/electricity and high melting points etc. • to explore the properties of non-metals e.g. dull, brittle, poor conductivity of heat/electricity etc. • that different acids react in similar ways with metals, with metal carbonates and with metal oxides • to represent elements by symbols and compounds by formulas • to use word equations to describe these reactions (acids will be limited to hydrochloric, sulphuric and nitric) • that although metals react in a similar way with oxygen, water and acids, some react more readily than others • to establish and use a reactivity series for metals • to represent chemical reactions by word and/or symbol equations • to use a proposed reactivity series to make predictions • to present qualitative data in a way that enables patterns to be described. • to investigate the relative reactivity of different metals, identifying and controlling relevant variables • define oxidation as the GAIN of oxygen during a chemical reaction (e.g. burning of magnesium) • carry out an experiment to investigate the conditions necessary for rusting. • research and recall the methods of controlling rusting; limited to sacrificial protection, galvanising and any barrier method.
Study Resources	Usual equipment for Science class
Style of Questions	Similar to end of topic tests.
Tips for Exam Success	<ul style="list-style-type: none"> • If you are not sure how to answer a question move on and go back to it as you may jog your memory as you work through your paper. • Check your answers • Make sure that you know what each question is worth e.g. 5
Exam Equipment	Pencil, ruler, pens, rubber, sharpener, calculator & protractor

Prayer for Exams

Lord, as I prepare to sit my exams send
your Holy Spirit to guide me & be with me.

Thank you for the many talents and gifts you have
given me and for the opportunity of education.

Help me do the best I can on the day of my exam.

Help me to remember all that I have studied, to express it clearly
and to answer the questions as best that I can.

Give me peace, understanding and wisdom.
Be with me today and always.

Amen.

