



KIRKHAM

GRAMMAR SCHOOL

SUMMER EXAMINATIONS 2025

REVISION TOPIC GUIDANCE

FOURTH YEAR

KIRKHAM GRAMMAR SCHOOL- 4TH YEAR EXAMINATION REVISION GUIDE: SUMMER 2025

Subject	Examination details	Specialist equipment and materials list	Topic list	Details of any revision materials given to pupils
Biology	<p>Trilogy 1 hour 15 minute examination</p> <p>Separates 1 hour 15 minute examination</p>	Pencil, ruler, calculator	<p><u>Trilogy</u> <u>Unit 1</u> Cell structure (pages of 2-6) Cell specialisation and differentiation (page 8-11) Microscopy (pages 11-12, 15-17) Cell division (pages 19-21) Stem cells (pages 22-24) Transport in cells (pages 29-37)</p> <p><u>Unit 2</u> Organisation of living things (page 43) Human digestive system and enzymes (pages 43-50) Heart and blood vessels (pages 51-54) Blood (pages 54-56) Health and heart disease (pages 56-57) Effect of lifestyle on non-communicable disease (pages 58-59) Cancer (pages 60-61) Plant tissues, organs and systems (pages 68-73)</p> <p><u>Unit 3</u> Pathogens and disease (pages 85-87) Bacteria, viruses, fungi and protists (pages 79-84) Defence against disease (pages 84-87) Vaccination (pages 87-88) Antibiotics and painkillers (pages 88-90) Discovery and development of drugs (pages 90-91)</p> <p><u>Unit 4</u> Photosynthesis (pages 95-100)</p> <p><u>Separates</u> As above + <u>Unit 1</u> Culturing microbes (page 91)</p>	

Business	<p>1 hour</p> <p>What is assessed:</p> <ul style="list-style-type: none"> ▪ Business in the real world ▪ Influences on business ▪ Business operations <p>Questions:</p> <ul style="list-style-type: none"> ▪ Section A has multiple choice questions ▪ Section B has one case study/data response stimuli with questions ▪ Section C has one case study/data response stimuli with questions 		<p>3.1 Business in the Real World</p> <p>3.1.1 Purpose and Nature of business</p> <p>3.1.2 Business Ownership</p> <p>3.1.3 Setting Business Aims and Objectives</p> <p>3.1.4 Stakeholders</p> <p>3.1.5 Business Location</p> <p>3.1.6 Business Planning</p> <p>3.1.7 Expanding a business</p> <p>3.2 Influences on Business</p> <p>The importance of external influences on business and how businesses change in response to these influences. Pupils need to be aware of the impact influences have on business on the four functional areas:</p> <ul style="list-style-type: none"> ▪ Business operations ▪ Human resources ▪ Marketing ▪ Finance <p>3.2.1 Technology</p> <p>3.2.2 Ethical and Environmental Influences</p> <p>3.2.3 The economic climate on business</p> <p>3.2.4 Globalisation</p> <p>3.2.5 Legalisation</p> <p>3.2.6 Competitive Environment</p> <p>3.3 Business Operations</p> <p>Pupils should understand the interdependent nature of business operations, human resources, marketing and finance. Pupils should be able to give examples of how business objectives would be split into functional plans with clear links throughout</p> <p>3.3.1 Production processes</p> <p>3.3.2 The role of procurement</p> <p>3.3.3 The concept of quality</p> <p>3.3.4 Good Customer Service</p>	
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Chemistry	Trilogy 1 hour 15 minutes Separates 1 hour 15 minutes	Calculator required. Pupils provided with data sheet.	Textbook chapters Trilogy Chapters 9, 10, 11, 12 and 13 Atomic structure and the periodic table Bonding, structure and the properties of matter Quantitative chemistry Chemical changes Separates Chapters 1, 2, 3, 4 and 5 Atomic structure and the periodic table Bonding, structure and the properties of matter Quantitative chemistry Chemical changes	
Computer Science	1 written paper, 1 hour 20 minutes		Paper 1 – Principles of Computer Science 1 – Computational Thinking 2.1 – Binary 2.2 – Data Representation 2.3 – Data Storage 3.1 – Hardware 3.2 – Software 5.3 - Cybersecurity	<ul style="list-style-type: none"> Revision in class Lesson resources on Google Classroom Flashcards Smart Revise
DT	1 examination, 1 hour 20 minutes	Black Pen, Pencil, Ruler, Eraser, Protractor & Calculator.	Product Design focus is TIMBERS and POLYMERS Design Engineering focus is POLYMERS and ELECTRONICS Design Considerations Communicating Design Ideas Material Considerations Technical Understanding Manufacturing Processes and Techniques	<ul style="list-style-type: none"> OCR GCSE 9-1 Design Technology Revision Guide (Purple and Green book) Revision power point on google classroom Sample paper, insert and mark scheme on google classroom Additional materials on Google Classroom
Drama	1 hour 20 minutes, 3 sections	Clean copy of Blood Brothers text	Section A: Theatre Roles and Terminology Four multiple choice questions on stage positions, stage types and roles in theatre. (4 marks in total).	<ul style="list-style-type: none"> Class notes on all 3 sections Revision material on Google Classroom Read Blood Brothers full text

Drama continued			<p>Section B: Blood Brothers This question will ask you to <i>either</i> design a set, costume, lighting or sound design for the given extract. Read the full extract, identify the character, location and time period. (4 mark question) Describe and explain how you would use your vocal and physical skills to perform a given line. Explain the effects you want to create. This will focus on one character from the play. (8 mark question) Focus on the shaded part of the extract. Explain how you will use the performance space and interact with another character to communicate (the effect given) to the audience. You will focus on two characters and will be given the effect they want you to create. (12 mark question) Describe how you will use your vocal and physical skills to interpret a given character in the extract and in the play as a whole. You will focus on one character. You will compare or contrast how the character interacts in the extract with other moments in the play. You will need the copy of the text for this question. (20 mark question) You will answer this question separately due to the timings of the exam.</p> <p>Section C: Live Theatre <u>Billy Elliot Live - Acting Question</u> Describe how one/two or more actors used their vocal and physical skills to (the focus will be given to you). Analyse and evaluate how successful they were in creating (the effect) for the audience. Choose 1 large key moment to write about. (32 mark question)</p>	<ul style="list-style-type: none"> ▪ Watch Billy Elliot Live (link on Google Classroom) ▪ Revise Billy Elliot Live key moments/essays/notes ▪ Revise exam structures ▪ Revise acting skills
English Language	1 examination, 45 minutes		iGCSE Language Paper 1 Section A Questions 1-5	Class notes on anthology prose extracts Class notes on the technique for answering each question (1-5)
English Literature	1 examination, 35 minutes		Unseen poem	Class notes on how to answer an unseen poetry examination question

Geography	1 examination, 1 hour 20 minutes	Black pen, pencil, ruler, eraser, compass, protractor and a calculator	<ul style="list-style-type: none"> Coastal landscapes in the UK Glacial landscapes in the UK Hazards Urban issues and challenges <p>There will be a general mix of skills and techniques throughout the paper</p>		Revision material available on Google Classroom alongside resources created and covered in class
History	1 internal examination, 1 hour 20 minutes		<p>Medicine through time</p> <ul style="list-style-type: none"> Ideas about the cause of disease and illness 1250-1500, 1500-1700, 1700-1900, 1900-present Prevention and treatment (dates as above) Black Death, William Harvey, Great Plague, Jenner, Cholera in London, Penicillin, Lung Cancer <p>The British Sector on the Western Front – trenches, conditions, injuries and treatment</p>		Pupils can access GCSE revision in their Google Classroom and we will make revision material in class
Latin	1 written paper, 1 hour 20 minutes		<ul style="list-style-type: none"> Latin to GCSE chapters 1-7 need to be revised fully. Relevant sections of Essential GCSE Latin should be used to revise accidence. The revision section at the end of book 1 (pages 216 - 229) will be particularly helpful. For vocabulary, see the vocabulary lists at the end of each chapter. PowerPoints used in class are available via the Google Classroom. Other advice will be provided in class. <p>Contact Mr Forrest by email (m.forrest@kirkhamgrammar.co.uk) with any questions.</p>		
Maths	2 examinations, 40 minutes each. 1) Non-calculator paper 2) Calculator paper	Calculator, pen, sharp pencil, ruler, eraser, compass, protractor	<u>Sets 1-4 (Higher Tier)</u> <ul style="list-style-type: none"> Ratio & Proportion Direct & Inverse Proportion Surds Solving by factorising Completing the square The quadratic formula Metric units 	<u>Sets 5-6 (Foundation Tier)</u> <ul style="list-style-type: none"> Equivalent fractions Mixed numbers Ordering fractions Adding, subtracting multiplying and dividing fractions Decimals 	Revision completed in class. Sparx homework and additional questions. Revision using Sparx codes which are available from the scheme of learning on the Google Classroom

Maths continued			<u>Sets 1-4 (Higher Tier) cont</u> <ul style="list-style-type: none"> ▪ Metric and imperial units ▪ Estimation ▪ Straight line graphs ▪ Gradients ▪ Equation of a line ▪ Parallel and perpendicular lines ▪ Line segments ▪ Histograms ▪ Cumulative frequency ▪ Time series ▪ Scatter graphs ▪ Representation of data ▪ Identities ▪ Proof ▪ Iteration ▪ Simultaneous equations ▪ Sets ▪ Venn diagrams ▪ Speed/distance/time ▪ Density ▪ Pressure ▪ Distance time graphs ▪ Velocity time graphs ▪ Sine and cosine rules ▪ 3D trigonometry ▪ Quadratic graphs ▪ Cubic graphs ▪ Reciprocal and exponential graphs ▪ Solving/Quadratic/Graphing inequalities 	<u>Sets 5-6 (Foundation Tier) cont</u> <ul style="list-style-type: none"> ▪ Ratio ▪ Sharing in a ratio ▪ Coordinates ▪ Horizontal and vertical graphs ▪ Straight line graphs ▪ Gradients' ▪ Equations of straight lines ▪ Speed, distance and time ▪ Density, mass and volume ▪ Pressure, force and area ▪ Distance time graphs ▪ Compound growth and decay ▪ Factorising into 1 or 2 brackets ▪ Reflections ▪ Rotations ▪ Translations ▪ Enlargements ▪ Pythagoras' Theorem ▪ Trigonometry ▪ Area and circumference of circles ▪ Arc length and sector area ▪ Probability ▪ Tree diagrams 	
Modern Languages	1 x 1 hr 20 minutes paper		General revision of all vocabulary and grammar from Modules 1-4 for the Reading, Writing and Listening tests.		

Modern Languages continued	Reading, Translation into foreign language, writing. Listening Test (done in class time before exam period)			
Music	Practical Solo Performance (will take place during lesson 16/05/25) Exam of 1 hour		Listening and Appraising tests will be based upon the work undertaken in class this year on the topics studied: Western Classical Music 1650-1910 Beethoven Symphony No 1 in C major 1 st Movt. Popular Music	
PE	1 examination, 1 hour 20 minutes	Basic stationery and colours	Applied Anatomy and Physiology <ul style="list-style-type: none"> Structure and functions of the skeleton, muscular system and cardio respiratory system Aerobic and anaerobic exercise Movement Analysis <ul style="list-style-type: none"> Levers Basic movements, planes of movement and axes of rotation Physical Training <ul style="list-style-type: none"> Health and fitness Components of fitness Fitness testing How to measure components of fitness and specific tests Principles of training Thresholds of training Types of training Preventing injury Training seasons Warming up and cooling down 	
Physics	Trilogy 1 hour 15 minute examination	A calculator	All of the first four sections of the specification: <ul style="list-style-type: none"> Energy Electricity The Particle Model of Matter Atomic Structure including radioactivity 	Please join Google Classroom code ayq7j7d. Here you will find summary notes, past papers and links to revision websites.

Physics continued	Separates 1 hour 15 minute examination			
RPE/RS	1 examination, 1 hour	Basic stationery – (please ensure that black ink is used)	<ul style="list-style-type: none"> ▪ Christianity: Beliefs and Teachings ▪ Christianity: Practices ▪ Issues of relationships ▪ Issues of human rights 	Revision completed in class session. Specimen questions issued. Practice questions attempted and model answers analysed.