



KIRKHAM GRAMMAR SCHOOL

SUMMER EXAMINATIONS 2022

REVISION TOPIC GUIDANCE

FOURTH YEAR

KIRKHAM GRAMMAR SCHOOL

FOURTH YEAR EXAMINATION REVISION GUIDE: SUMMER 2022

Subject:	Art	Biology	Business Studies	Chemistry
Examination details	1 examination, 1 hour	Trilogy 1 hour 15 minute examination Separates 1 hour 20 minute examination	1 hour 20 minutes What is assessed: <ul style="list-style-type: none"> • Business in the real world • Influences on business • Business Operations Questions: <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 	Trilogy 1 hour 15 minutes Separates 1 hour 20 minutes
Specialist equipment and materials list.	All provided within the department.	Pencil, ruler, calculator		Calculator required. Provided with data sheet.
Topic list	Pupils will present a conclusion to a set assignment linked to their coursework.	Trilogy <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) <u>Unit 2</u> Organisation of living things (page 43) Human digestive system and enzymes (pages 43-50)	3.1 Business in the Real World 3.1.1 Purpose and Nature of business 3.1.2 Business Ownership 3.1.3 Setting Business Aims and Objectives 3.1.4 Stakeholders 3.1.5 Business Location 3.1.6 Business Planning 3.1.7 Expanding a business 3.2 Influences on Business The importance of external	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 Energy changes

Subject:		Biology (cont)	Business Studies (cont)	Chemistry (cont)
Topic list (cont)		<p>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>Separates As above + <u>Unit 1</u> Culturing microbes (page 91)</p>	<p>Influences on business and how businesses change in response to these influences. Students 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 3.2.2 Ethical and Environmental Influences 3.2.3 The economic climate on business 3.2.4 Globalisation 3.2.5 Legalisation 3.2.6 Competitive Environment</p> <p>3.3 Business Operations Students should understand the interdependent nature of business operations, human resources, marketing and finance. Students 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 3.3.2 The role of procurement 3.3.3 The concept of quality 3.3.4 Good Customer Service</p>	<p>Separates Chapters 1. 2 .3. 4 and 5</p> <p>Atomic structure and the periodic table Bonding, structure and the properties of matter Quantitative chemistry Chemical changes Energy changes</p>
Details of any revision materials given to pupils	The details will be discussed in the period leading up to the exam.			

Subject:	Computer Science	DT	Drama	English Language
Examination details	1 written paper, 1 hour 20 minutes	1 examination, 1 hour 20 minutes	1 hour 20 minutes, 2 sections	1 examination, 1 hour 30 minutes
Specialist equipment and materials list		Black Pen, Pencil, Ruler, Pencil Eraser, Protractor & Calculator.		
Topic list	Unit 1 1.1 – Systems Architecture 1.2 – Memory & Storage (includes Data Representation) 1.5 – Systems Software 1.6 – Ethics, Law & Morality Unit 2 2.1 – Algorithms 2.3 – Producing Robust Programmes 2.4 – Computational Logic	Topics for Design Technology: <ul style="list-style-type: none"> • Revise class notes • OCR GCSE 9-1 Design Technology Revision Guide • Any further information added to Google Classroom 	Section A: Four multiple choice questions on stage positions, stage types and roles in theatre (4 marks). Section B: (Blood Brothers) Either set, costume, lighting or sound design (4 mark question) Applying vocal and physical skills to a given line. (8 mark question) Exploring space and interaction between two characters (12 mark question) Character interpretation from the given extract and the play as a whole (20 mark question) Section C (Live Theatre - performer, Billy Elliot) Character focus. (32 marks)	iGCSE Language Paper 1 Section A Questions 1-5
Details of any revision materials given to pupils	<ul style="list-style-type: none"> • Revision in class • Homeworks on google classroom • Workbooks • Computer science tutor videos – links on google classroom • Textbook • Quizlet • Various revision booklets on google classroom 			Class notes on anthology prose extracts Class notes on the technique for answering each question (1-5)

Subject:	English Literature	Geography	History	Latin
Examination details	1 examination, 35 minutes	1 examination, 1 hour 20 minutes	1 internal examination, 1 hour 20 minutes	1 written paper, 1 hour 20 minutes
Specialist equipment and materials list		Black pen, pencil, ruler, eraser, compass, protractor and a calculator		
Topic list	Unseen poem	<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>	<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 • The British Sector on the Western Front – trenches, conditions, injuries and treatment 	<ul style="list-style-type: none"> • Latin to GCSE chapters 1-7 need to be revised fully. • 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. • Contact Mrs Long by email with any questions: splong@kirkhamgrammar.co.uk
Details of any revision materials given to pupils	Class notes on how to answer an unseen poetry examination question	Topics gone over in class	Pupils can access GCSE revision in their Google classroom and we will make revision material in class	

Subject:	Maths	Modern Languages	Music	PE
Examination details	2 examinations, 40 minutes each. 1) Non-calculator paper 2) Calculator paper	1 x 1 hour 20 minutes paper Reading, Translation into foreign language, Writing Listening Test (done in class time before exam period) Speaking Test (done in the week before half-term exam period) Consists of a 3-5 minute recorded interview in the foreign language with the teacher	Practical Solo Performance (will take place during w/c 16/05/22) Exam of an hour	1 examination, 1 hour 20 minutes
Specialist equipment and materials list	Calculator, sharp pencil, ruler, eraser, compass, protractor			Basic stationery and colours
Topic list	<u>Sets 1, 2A, 2B, 2C (Higher Tier)</u> Textbook chapters (in teaching order) Section 4: Ratio & Proportion Section 10: Direct & Inverse Proportion Section 7: Powers & Roots Section 11: Quadratic Equations Section 22: Units, Measuring & Estimating Section 33: Displaying Data Section 9: Equations Section 12: Simultaneous Equations Section 19: Sets Section 23: Compound Measures Section 25: Pythagoras & Trigonometry	General revision of all vocabulary and grammar from Modules 1, 2, 3, 4 and 5 for the Speaking, Reading and Writing and Listening tests. Specific and detailed advanced preparation is required for the Speaking Test. Teachers will indicate what questions are to be asked two weeks prior to the speaking test week and candidates will be required to prepare and practise their own answers.	Listening and Appraising tests will be based upon the work undertaken in class this year on the topics studied: 20 th Century Music Mozart Clarinet Concerto 3 rd Movement Popular Music	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

Subject:	Maths (cont)			PE (cont)
	<p>Section 16: Other Types of Graph</p> <p>Set 3 (Foundation Tier)</p> <p>Textbook chapters (in teaching order)</p> <p>Section 5: Fractions Section 6: Ratios Section 12: Graphs & Equations Section 17: Speed, Density & Pressure Section 7: Percentages Section 24: Transformations Section 19: Pythagoras & Trigonometry Section 21: Parts of a circle Section 22: Area & Perimeter</p>			<ul style="list-style-type: none"> • Principles of training • Thresholds of training • Types of training • Preventing injury • Training seasons • Warming up and cooling down

Subject:	Physics	RPE/RS
Examination details	1 examination, 1 hour 15 minutes	1 examination, 1 hour
Specialist equipment and materials list	A calculator	Basic stationery – (please ensure that black ink is used)
Topic list	All of the first four sections of the specification, ie Energy, Electricity, Particle Model of Matter, Atomic Structure	<ul style="list-style-type: none"> • Christianity: beliefs and teachings • Christianity Practices • Issues of relationships • Issues of Human Rights
Details of any revision materials given to pupils	Exam question and revision progress checklists available on pupil drive	Revision completed in class session. Specimen questions issued. Practice questions attempted and model answers analysed.