



ENGLISH MODERN SCHOOL DOHA
MOCK EXAM REVISION GUIDE

JANUARY 2018

IGCSE

IGCSE MOCK REVISION GUIDE





IGCSE MOCK REVISION GUIDE

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Mock Exam Information

This revision guide was produced by subject teachers, in order to ensure that students and parents are aware of the of the content being covered for the Mock Exam.

Students are encouraged to use a variety of resources to help prepare for the exam.

Mock Exam Procedures:

- Students are expected to arrive to the exam hall at least 15 minutes before the scheduled start time
- Students must sit in the assigned seat
- Students must provide all supplies such as pens, pencils and rulers
- Students may use the approved calculator only when instructed to do so.
- Students must not talk or attempt to communicate with others during the exam
- Cell phones must be turned off and placed in the designated area upon entering the exam room

IGCSE Mock Exams		Location: Multi-Purpose Room	
	First Session 8:00 to 10:00	Second Session 11:00 to 13:00	
Tuesday 9 Jan '18		➤ English 2 nd Listening (Lesson 5)	
Tuesday 16 Jan '18	➤ Islamic Studies (Group A) ➤ ICT Practical 2½ hours (Group B)	➤ Islamic Studies (Group B) ➤ ICT Practical 2½ hours (Group A)	
Wednesday 17 Jan '18		➤ History 2 hours	
Thursday 18 Jan '18	➤ 1 st Language English (Paper 1) 2 hours ➤ English 2 nd Language 2 hours	➤ 1 st Language English (Paper 2) 2 hours	
Sunday 21 Jan '18	➤ Mathematics 2 hours	➤ English Literature 2 hours ➤ Geography 2 hours ➤ Global Perspectives 2 hours	
Monday 22 Jan '18	➤ Chemistry 2 hours	➤ Business Studies 2 hours	
Tuesday 23 Jan '18	➤ Arabic 1 st Language 2 hours ➤ French 2 hours	➤ Accounting 2 hours	
Wednesday 24 Jan '18	➤ Physics 2 hours	➤ Information Technology (Theory) 2 hours	
Thursday 25 Jan '18	➤ Biology 2 hours		



Exam Study Tips

Sleep and eat well

- Make sure you are well rested and have a balanced meal on the exam day

Prepare a good study schedule

- How much material do you have to cover? Start early
- [Here](#) is a resource to help you create a revision schedule

Have no fear!

- You got this!

Select an appropriate study location

- Select a place where you are comfortable and can concentrate without distractions
- Sit up straight with good posture
- Do not study in bed or on sofa

Make notes while studying

- Use highlighters and colored pens to signal important information
- Review notes regularly

Find practice questions and tests

- Ask your teacher to review your answers to ensure that you are on the right track

Review key concepts often

- Can you explain the information to someone else? This is how you know you truly understand



Managing Exam Anxiety

Some anxiety is to be expected during exam season. Here are a few tips to help you manage your stress:

Before the Test

- Visualize yourself being successful
- Avoid cramming by using a study schedule
- Use your time wisely

During the Test

- Maintain good posture
- Don't overthink
- Pause: Think about the next step, Stay on task, Step by Step
- Remember, there is no reward for finishing first

Relax: You Got This!

- Stretch: Arms, Neck and Back
- 1-5 Deep Breathing (In nose; Out mouth)
- Imagine a safe place
- Use positive self-talk



SUBJECT: IGCSE ARABIC 1ST LANGUAGE

TEACHER: MR ABDULRAHMAN

EXAM DATE: 23RD JANUARY 2018

Theory Exam Length: 2 hours 00 minutes

TOPICS TO BE COVERED	DETAIL
القراءة	<ul style="list-style-type: none">- فهم المقروء- استخراج الأفكار الرئيسية من النص- تحليل النص- التلخيص
الكتابة	<ul style="list-style-type: none">- كتابة نص نقاشي- كتابة نص إقناعي
	Revise past papers questions

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**SUBJECT: IGCSE ISLAMIC STUDIES
(Arabic)**

TEACHER: MR ABDULRAHMAN

EXAM DATE: 16th JANUARY 2018

Theory Exam Length: 2 hours 00 minutes

ملاحظات	الموضوع	المجال
	العلمانية	السيرة و البحوث الإسلامية
	التوكل و التواكل	الأداب و الأخلاق
من الآية (1 - 16) حفظ	سورة الرحمن	القرآن الكريم (حفظ)
تفسير الآيات	البر و العدل مع أهل الذمة	القرآن الكريم (تفسير)
	جوامع الخير	حديث
	اليهودية و النصرانية	عقيدة إسلامية
	حد شرب الخمر	فقه إسلامي



IGCSE MOCK REVISION GUIDE

**SUBJECT: IGCSE ISLAMIC STUDIES
(English)**

TEACHER: MRS AMEL

EXAM DATE: 16th JANUARY 2018

Theory Exam Length: 2 hours 00 minutes

TOPICS TO BE COVERED	DETAIL
The holy Quran	Aayat – UL –Kursee
The holy Quran	Clear concept of the Creator (soorat al –An’aam)
Biography	What is the Qur’aan
Hadeeth	Meditation in the cave of Hira
Islamic faith	Prophet hood the first revelation
jurisprudence	The pause of revelation
Islamic faith	The call to Islam in Makkah
	Essentials of the prophet’s call of his people
	The Quraysh reject the Messenger of Allah and his
	The Quraysh take action
	Quraysh Approach Abu Taalib
	The Muslim Emigration to Ethiopia
	Why Abyssinia
	The boycott
	the year of the Grief
	The journey to At-TAA’IF
	The journey to At-TAA’IF
	The five pillars of Islam.
	Guidance prayer



SUBJECT: IGCSE FRENCH
TEACHER: Mme ALIA
EXAM DATE: 23rd January 2018

The French exam will last for **2 hours**.

It will consist of:

Comprehension:

Questions (about the text).

Multiple choices

Vocabulary questions (about the text).

Grammar.

Vocabulary.

Essay

TOPICS TO BE COVERED	DETAIL
A THÈMES Tous les thèmes étudiés en year → 10 & y :11	<i>(everything done in year10 & in y :11)</i>
Présenter une personne <i>(presenting another person)</i>	Son nom Son âge Sa nationalité Sa famille SA nationalité Ses passe-temps etc.....
Présenter une personne selon une carte d'identité	<i>(Presenting a person according to an ID card.)</i>
La description <i>(Description)</i>	<u>L'apparence physique</u> <i>(physical appearance)</i> <u>Les yeux</u> <i>(eyes)</i> <u>La taille</u> <i>(size)</i> <u>Les cheveux</u> <i>(hair)</i> <u>Le caractère</u> <i>(character / personality)</i> <u>Les vêtements</u> <i>(clothes)</i> <u>Les couleurs</u> <i>(colours)</i>
La ville et la campagne : <i>(the city and the countryside)</i> <i>(advantages and disadvantages)</i>	Les avantages et les inconvénients de la vie en ville et à la campagne
La vie scolaire <i>(school life)</i> La routine <i>(daily routine)</i>	<u>L'emploi du temps</u> <i>(the time table)</i> <u>Les nombres de 1→ 100</u> <i>(numbers from 1 to 100)</i> <u>Les matières scolaires</u> <i>(School subjects)</i> <u>Quelle heure est-il?</u> <i>(What time is it?)</i>

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SUBJECT: IGCSE FRENCH
TEACHER: Mme ALIA
EXAM DATE: 23rd January 2018

<p>Quel temps fait-il ? <i>(What's the weather like?)</i></p>	(Present)
<p>Description d'une maison <i>(house description)</i></p>	
<p>Les travaux ménagers <i>(housework)</i></p>	
<p>Les souhaits <i>(wishes)</i></p> <p>Célébrer une fête :</p>	<p>Bonne Année!/Bonne Chance! ...etc... Comme un anniversaire, un réveillon de fin d'année, un réveillon de Noël etc... : <i>(celebrating something like a Birthday, Christmas, New Year....)</i></p>
<p>Les magasins Les aliments <i>(Les fruits, les légumes, les viandes, les produits d'épicerie...)</i> → Dans un restaurant.</p>	<p>Formules de politesses <i>(Anything done about food and meals)</i></p>
<p>B/ GRAMMAIRE</p> <p>* La situation dans le temps <i>(the time line)</i> * Le présent <i>(the present tense)</i> * Le passé composé: <i>(the past tense)</i> Les verbes qui se conjuguent avec "avoir" <i>(regular verbs)</i> Les verbes irréguliers <i>(irregular verbs)</i> Les verbes qui se conjuguent avec "être" <i>(verbs with être)</i></p> <p>* L'imparfait + les exceptions <i>(the imperfect tense + the exceptions)</i></p> <p>* Les interrogatifs <i>(question words)</i></p> <p>* Le future <i>(the future)</i></p> <p>* Les adjectifs possessifs * Les pronoms possessifs</p> <p>* Les adjectifs démonstratifs <i>(the demonstratives)</i></p> <p>* Les prépositions <i>(prepositions with the countries, cities and transportations)</i></p> <p>Les partitifs → du /de la / de l'/ des/</p>	<p>- Hier/ demain/ la semaine dernière etc... <i>(the table)</i> Les verbes en -er / -ir / -re Les verbes en -er / -ir / avec "avoir" Les 26 verbes <i>(26 verbs)</i> Les 13 verbes <i>(13 verbs)</i></p> <p>-ger / -cer ...etc...</p> <p>Qui ? / que ? / comment ?/ où ?...etc...</p> <p><u>Le futur simple</u> <i>(the simple future)</i> <u>Le futur proche</u> <i>(the near future)</i></p> <p>Ma/mon/ta/ton/sa/son...etc Le mien/la mienne/le tien/la tienne...etc Ce/cet/cette/ces Avec les pays, les villes et les transports</p>



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SUBJECT: IGCSE ICT - Year 11
TEACHERS: Ms. Irma/Mr. Ben/Ms. Linda
EXAM DATE: PRACTICAL - 16th January 2018
THEORY - 24th January 2018

Theory Exam length: 2 hours 00 minutes

Practical Exam length: 2 hours 30 minutes (Completed in the ICT labs in block A)

Theory—TOPICS TO BE COVERED	DETAIL
Unit 1 Types and Components of a computer system	Hardware and software, Main components of a computer system, Operating Systems, Types of computer, Impact of emerging technologies.
Unit 2 Input and output devices	Input devices and their uses, Direct data entry devices, and output devices and their uses.
Unit 3 Storage devices and media	Backing up of data, types of access, secondary media
Unit 4 Networks and the effects of using them	Networks, networks issue and communication
Unit 5 The effects of using ICT	The effects of using ICT on employment, on working patterns, Microprocessor-controlled devices in the home. Potential health problems related to the prolonged use of ICT equipment.
Unit 7 Systems life cycle	Analysis, Design, Development and testing, Implementation, Documentation, Evaluation
Unit 8 Safety and Security	Physical Security, E-safety, Security of data, additional security of data online.

Practical—TOPICS TO BE COVERED	DETAIL
Unit 12 - Images and Unit 13– Layout	Software tools, edit an image. Basic documents, Place objects into a document. Header and Footer
Unit 14– Styles and Unit 15– Proofing.	Corporate house styles, styles in a document. Software tools, proofing techniques./
Unit 16-Graphs and Charts	Chart types, Create a chart, Label a chart
Unit 17-Document production	Format text and organize page layout, edit a table and mail merge
Unit 18-Data manipulation	Create database structure, manipulate data, present data.
Unit 20– Data Analysis	Formulas, functions, vlookup and hlookup



IGCSE MOCK REVISION GUIDE

**SUBJECT: IGCSE ENGLISH LITERATURE
PROSE AND POETRY**

TEACHER: MR GUNNAR

EXAM DATE: 21st January 2018

To assist students prepare for these examinations the teachers have drawn up Revision Guides to ensure that all students are aware of the work to be covered for the examinations in all subjects; these can be found on the Google site.

The exam will last 2 hours.

TOPICS TO BE COVERED	DETAIL
<p>Paper 1 & 2</p> <p>Show detailed knowledge of the content of literary texts in two main forms- poetry and prose.</p> <p>Understand the meanings of literary texts and their contexts, and explore texts beyond surface meanings to show deeper awareness of ideas and attitudes.</p>	<p>Students are expected to have a thorough understanding of the following texts:</p> <p>All 10 poems from Songs of Ourselves.</p> <p>All 10 short stories from Stories of Ourselves.</p>



IGCSE MOCK REVISION GUIDE

SUBJECT: IGCSE ENGLISH 2ND LANGUAGE

TEACHERS: MRS DANIELA / MRS KAWTHAR/ MR GUNNAR

EXAM DATE : Listening — 9th January 2018

Theory — 18th January 2018

To assist students prepare for these examinations the teachers have drawn up Revision Guides to ensure that all students are aware of the work to be covered for the examinations in all subjects; these can be found on the Google sites.

The Reading and Writing exam will last two hours and the Listening exam will last approximately 50-50 minutes. (one week prior to the theory mock exam)

TOPICS TO BE COVERED	DETAIL
Paper 2 Reading and writing	Students are expected to answer 7 exercises that will test their reading and writing abilities. <ol style="list-style-type: none">1. Reading exercise2. Reading exercise3. Information transfer4. Note-making5. Summary writing (100-120 words)6. Article writing (150-200 words)7. Letter writing (150-200 words)
UNITS 11-16	
Past papers	
Paper 4 Listening	



IGCSE MOCK REVISION GUIDE

SUBJECT: IGCSE ENGLISH 1ST LANGUAGE
TEACHERS: MRS SHEELAGH/ MR GUNNAR
EXAM DATE: 18th January 2018

To assist students prepare for these examinations the teachers have drawn up Revision Guides to ensure that all students are aware of the work to be covered for the examinations in all subjects; these can be found on the Google site.

Theory Exam Length: (Paper 1) 2 hours 00 minutes
(Paper 2) 2 hours 00 minutes

TOPICS TO BE COVERED	DETAIL
<p>Paper 2 & 3 Reading and Writing</p> <p>Enable candidates to understand and respond to what they hear, read and experience.</p> <p>Enable candidates to communicate accurately, appropriately, confidently and effectively.</p> <p>Encourage candidates to enjoy and appreciate a variety of language.</p>	<p>Students are expected to have an understanding of the following skills:</p> <p>Students write about 250-350 words, responding in one of the following text types: letter, report, journal, speech, interview, newspaper report or magazine article.</p> <p>Students write their content points in note form and then their summary as continuous writing of 200-250 words.</p> <p>Students use, develop and evaluate the information in a discursive/ argumentative letter or article. 250-350 words</p> <p>Students answer one question from a choice of two descriptive and two narrative titles. 350-450 words</p>



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SUBJECT: IGCSE BUSINESS STUDIES
TEACHER: Mr. James/ Ms. Asmaa
EXAM DATE: 22nd January 2018

The exam will last **two hours** and will be an **80 marks paper**.

The exam will be based on a **combination of** IGCSE Business studies

Paper 1- (Data Response: Short Answers) **and** Paper 2- (Case Study)

NOTE: Students will need a calculator.

TOPICS COVERED	DETAIL
<p>Section 1- Understanding business activity</p> <ul style="list-style-type: none">• Business Activity• Classification of Business• Enterprise, Business Growth and size• Types of Business Organisation <p>Business Objectives and Stakeholders Objectives</p> <p>Section 2- People in Business</p> <ul style="list-style-type: none">• Motivating workers• Organisation and Management• Recruitment, selection and training of workers <p>Internal and External communication</p> <p>Section 3- Marketing</p> <ul style="list-style-type: none">• Marketing, competition and the customer• Market research• The Marketing mix: Product• The Marketing mix: Price• The Marketing mix: Promotion and technology in marketing• The Marketing mix: Place• Marketing strategy <p>Section 5- Financial Information and financial decisions</p> <ul style="list-style-type: none">• Business finance- Need for finance and sources• Cash flow forecasting and Working Capital• Income Statements• Balance Sheets <p>Analysis of accounts</p>	<p>EXAM PREPARATION TECHNIQUE:</p> <p>Read, learn and revise the text book thoroughly well for all topics covered.</p> <p>Please refer IGCSE Business Studies CIE past papers for the portions covered: Practice answering questions, use marking schemes to check answers and revise well.</p>



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SUBJECT: IGCSE GEOGRAPHY

TEACHER: Miss Carol

EXAM DATE: 21st January 2018

Theory Exam Length: 2 hours 00 minutes

A revision packet with practice questions will be given to each student before the winter break.

TOPICS TO BE COVERED	DETAIL
<p><u>Section 1:</u> Population and Settlement Population explosion Population growth and resources Population structure Population structure Population density and distribution Migration Rural Settlement Urban settlement Land use zones Problems in Urban area</p> <p><u>Section 2:</u> The natural environment Volcanoes and earthquakes Rivers processes and landforms Coastal landforms and processes Tropical Rainforest Tropical deserts</p> <p><u>Section 3: Economic Development and the use of resources</u> Tourism Energy Resources Agricultural Systems</p> <p><u>Section 4: Geographical skills</u> Map skills Grid references Give directions, both as a point of the compass, such as north, north-east, etc. and as a bearing from grid north of one place from another. Distance and Scale Contours and Cross-section Map Symbols Recognizing Human and Physical Features Sketch Maps and Field Sketches Tables, Graphs and Basic Comprehension Decision Making and Data Interpretation</p>	<p>All notes in notebooks from 10th and 11th grade should be reviewed and well as all chapters covered in the textbook</p> <p>Cambridge IGCSE Geography</p> <p>Students can refer to past paper exams and various study guides given out throughout the terms.</p>



SUBJECT: IGCSE ACCOUNTS

TEACHER: MRS MARIE

EXAM DATE: 23rd January 2018

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Theory Exam length: 2 hours 00 minutes

TOPICS COVERED	DETAIL
Double Entry Bookkeeping	<ul style="list-style-type: none"> • Double entry bookkeeping for assets, liabilities, expenses, income, drawings, sales, purchases, returns • Balancing of ledger accounts • Types of specialist ledgers • Preparation of three column cash book
Trial Balance and Errors Journal Entries and Correction of Errors	<ul style="list-style-type: none"> • Preparation of the Trial Balance • Errors that affect the balancing of Trial Balance • Errors that does not affect the balancing of the Trial Balance • Correction of errors, suspense account and effect on Income Statement and Balance Sheet
Petty Cash Book	<ul style="list-style-type: none"> • The Imprest System of Petty Cash • Preparation of the Petty Cash Book
Business Documents	<ul style="list-style-type: none"> • The invoice, debit note, credit note, statement of account, cheque and receipt • The Cash Discount and Trade Discount
Books of Prime Entry	<ul style="list-style-type: none"> • Cash book, petty cash book, sales journal, purchases journal, sales return journal, purchases returns journal, general jour.
Final Accounts	<ul style="list-style-type: none"> • Preparation of the Financial Statements- Income Statement and Balance Sheet
Accounting Rules	<ul style="list-style-type: none"> • The different accounting principles – business entity, duality, money measurement, realisation, consistency, matching, going concern, materiality, prudence, historical cost, accounting period. • Objectives in selecting accounting policies- relevance, reliability, comparability, unde standability • Capital and revenue expenditure and receipts • Stock Valuation
Accruals and Prepayments	<ul style="list-style-type: none"> • Preparation of Ledger entries for accruals and prepayments
Depreciation of Fixed assets	<ul style="list-style-type: none"> • Methods of Calculating depreciation • Journal Entries and recording provision for depreciation in the ledger and final accounts
Bad Debts and Provi- sion for Doubtful Debts	<ul style="list-style-type: none"> • Journal entries and recording of Bad Debts, Bad Debts recovered, Provision for Doubtful Debts in the ledger and final accounts • Increasing and decreasing provision for Doubtful debts
Bank Reconciliation Statement	<ul style="list-style-type: none"> • Preparation of a bank reconciliation statement and updating of cash book
Control Accounts	<ul style="list-style-type: none"> • Preparation of a Sales Ledger Control Account and Purchases Ledger Control account
Incomplete Records	<ul style="list-style-type: none"> • Preparation of statement of affairs • Margin, Mark up and turn-over



SUBJECT: IGCSE Global Studies

TEACHER: Ms Ruby

EXAM DATE: 21st January 2018

Theory Exam Length: 2 hours 00 minutes

TOPICS TO BE COVERED	DETAIL
<p>Component 1 :</p> <p>Written Examination</p> <p>Students will answer questions on any of the following topics.</p> <ul style="list-style-type: none">• Demographic change• Education for all• Employment• Fuel and energy• Globalisation• Law and criminality• Migration• Transport systems	<p>Consolidation of notes, and chapters from textbook</p>

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SUBJECT: IGCSE HISTORY
TEACHER: MR ROB
EXAM DATE: 17th January 2018

Theory Exam Length: 2 hours 00 minutes **(80 marks)**

TOPICS TO BE COVERED	DETAIL
<p><u>History</u></p> <p>The Treaty of Versailles</p> <p>Were the Treaties fair?</p> <p>The League of Nations</p> <p>Germany 1919 -1939</p> <p>The Cold War – including events in Eastern Europe, The Korean War, The Cuban Missile Crisis, The Vietnam War and the Collapse of the USSR.</p> <p>Why did events in the Gulf matter? (1970 – 2000)</p>	<p>Consolidation of notes, and chapters from textbook</p> <p>1 to 6 inclusive of the textbook 20th Century History and related Chapters in Modern World History and the entire text book 'Germany'.</p> <p>All notes, essays and project material on this topic as well as Chapter 7 of the textbook 20th Century History.</p>

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SUBJECT: IGCSE MATHEMATICS
TEACHER: Ms. Jabeen / Mr. Johan
Ms. Claudine / Mr. Tarek
EXAM DATE: 21st January 2018

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CORE:

TOPICS INCLUDED	DETAILS
Chapters 1 TO 20 (EXCEPT CHAPTERS 17 & 19)	From the textbook IGCSE Mathematics by K. Morrison
Past paper questions on the above	From Cambridge International Examinations, Papers 1 and 3
All year 10 and year 11 topics	Use all worksheets, short assessments and tests given

EXTENDED:

TOPICS INCLUDED	DETAILS
Chapters 1 TO 20	From the textbook IGCSE Mathematics by K. Morrison
Past paper questions on the above	From Cambridge International Examinations, Papers 2 and 4
All year 10 and year 11 topics	Use all worksheets, short assessments and tests given





SUBJECT: IGCSE BIOLOGY EXT.

TEACHER: MS ELENA / MS NANDIA/MS HANADI

EXAM DATE: 25th January 2018

Theory Exam length: 2 hours 00 minutes

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TOPICS TO BE COVERED	DETAIL
Unit 1 Cells and Cell Processes	Characteristics of living things. Cell structure, function and specialization. Levels of organization. Using microscopes and calculating size of specimens. Calculating magnification. Movement in and out of cells
Unit 2 Biological Molecules and En-	Structure of carbohydrates, proteins, fats and their roles in living organisms. The importance of water in living organisms. Identification of biological molecules. Enzymes. Factors that affect enzyme controlled reaction.
Unit 3 Animal Nutrition	Teeth- different types, their functions, structure, tooth decay. Balanced diet, energy requirements for different types of individuals. Role of vitamins and minerals in humans and deficiency diseases. Causes and treatment of Cholera. The human digestive system and the function of different organs.
Unit 4 Plant Nutrition and Transport	Photosynthesis, structure of a leaf and how it is adapted for photosynthesis. Limiting factors Transport in plants- xylem and phloem vessels, their structure and function. Mineral requirements and effects of deficiency. Transpiration and factors that affect rate of transpiration. Translocation
Unit 5 Respiration and Gas Exchange	Aerobic and anaerobic respiration; oxygen debt. Fermentation. Human gas exchange system. Effect of exercise on rate and depth of breathing. Breathing and effects of smoking on lungs.
Unit 6 Transport in Humans	The structure and function of the circulatory system; heart, blood vessels and blood. Effect of physical exercise on heart rate. Causes and treatment of heart disease. Formation and function of tissue fluid. Structure and function of lymphatic system.
Unit 7 Diseases and Immunity	Transmissible diseases and methods of transmission Defence mechanisms of the body Phagocytosis and mode of antibodies Active and passive immunity- the role of memory cells in immune response. Vaccinations and their role in controlling spread of disease. Importance of hygiene and sewage treatment in controlling spread of disease.
Unit 8 Coordination and Response	Coordination and response- nervous system and endocrine system in humans. Structure and function of the eye, joints and muscles. Tropisms in plants.
Unit 9 Homeostasis, Excretion and Drugs	Homeostasis- role of skin, pancreas, liver and kidney. Excretion in humans-role of kidneys. Medicinal drugs and antibiotics. Misuse of drugs such as heroin, alcohol and tobacco. Effects of heroin, cigarette smoke and alcohol on the body.
Unit 10 Reproduction	Asexual reproduction, binary fission, and sexual reproduction. Reproductive organs in humans, their structure and function. Pregnancy, growth of the foetus, and birth. Hormones, menstrual cycle, birth control and sexually transmitted infections. Sexual reproduction in plants; structure and function of a flower, pollination, fertilization, seeds and dispersal.
Unit 11 Heredity	Chromosomes, genes and cell division; mitosis and meiosis. DNA and protein synthesis. Inheritance, inherited diseases. Genetic diagrams, genotypes and phenotypes. Sex chromosomes Variation; continuous and discontinuous; environmental and genetic. Mutations. Adaptation, natural and artificial selection.
Unit 12 Organisms and the Environment (including Classification)	Ecology Energy flow in an ecosystem. Food chains, food webs (emphasis on examples occurring locally), trophic levels, pyramid of numbers and biomass. Nutrient cycles-Water, Carbon cycle and Nitrogen cycle. Population size-birth and death rates, environmental factors. Classification-characteristics of living things and using keys to identify unknown organisms.



SUBJECT: IGCSE CHEMISTRY
TEACHER: Ms SHEJILA / Ms EMINE
EXAM DATE: 22nd January 2018

Theory Exam length: 2 hours 00 minutes

TOPICS TO BE COVERED	DETAIL
UNIT 1. The particulate nature of matter	<ul style="list-style-type: none">Describe the states of matter and explain their interconversion in terms of the kinetic particle theoryDescribe and explain diffusion
UNIT 2. Experimental techniques & criteria of purity	<ul style="list-style-type: none">Interpret simple chromatogramsIdentify substances and assess their purity from melting point and boiling point information.Describe methods of purification by the use of a suitable solvent, filtration, crystallisation, distillation.
UNIT 3. Atoms, elements, and compounds	<ul style="list-style-type: none">Proton number and nucleon number.IsotopesIons and ionic bondsMolecules and covalent bondsMetallic bonding
UNIT 4. Stoichiometry	<ul style="list-style-type: none">Formula of a simple compound from the relative numbers of atoms presentConstruct word equations and simple balanced chemical equationsDefine relative molecular mass, M_r, as the sum of the relative atomic massesThe mole concept
UNIT 5. Electricity and chemistry	<ul style="list-style-type: none">Relate the products of electrolysis to the electrolyte and electrodes usedDescribe electrolysis: examples electroplating, Reasons for electroplating
UNIT 6. Chemical energetics	<ul style="list-style-type: none">Describe the meaning of exothermic and endothermic reactions, interpret energy level diagramsDescribe the production of electrical energy from simple cellsDescribe the use of hydrogen as a fuel
UNIT 7. Chemical reactions	<ul style="list-style-type: none">Describe the effect of concentration, particle size, catalystsInterpret data from experiments with rate of reactionReversible reactionsRedox reactions
UNIT 8. Acids, bases and salts	<ul style="list-style-type: none">Define <i>acids</i> and <i>bases</i>Describe the characteristics of acids and basesClassify oxides as either acidic or basic, related to metallic and non-metallic characterDescribe the preparation of insoluble salts by precipitation, identification of ions and gases
UNIT 9. The Periodic table	<ul style="list-style-type: none">Describe the Periodic Table as a method of classifying elements and its use to predict properties of elementsDescribe the metallic/non-metallic character across a periodIdentify trends in other Groups, given information about the elements concernedDescribe the transition elements.Describe the noble gases as being unreactive
UNIT 10. Metals	<ul style="list-style-type: none">Describe the general physical and chemical properties of metalsDescribe the ease in obtaining metals from their ores by relating the elements to the reactivity seriesDescribe the essential reactions in the extraction of iron from hematite, making of steelKnow that aluminium is extracted from bauxite and advantages of alloys
UNIT 13. Carbonate	<ul style="list-style-type: none">Describe the manufacture of calcium oxide (lime) from calcium carbonate (limestone) in terms of thermal decompositionName the uses of calcium carbonate in the manufacture of iron and of cement
UNIT 14. Organic chemistry	<ul style="list-style-type: none">Alkanes, Alkenes



SUBJECT: IGCSE PHYSICS
TEACHER: MR LAWRENCE / MS FATAN
EXAM DATE: 24th January 2018

IGCSE MOCK REVISION GUIDE

Theory Exam length: 2 hours 00 minutes

TOPICS TO BE COVERED	DETAILS
Chapter 1: Measurement	Identify techniques in making measurements of mass and length. Measuring short time intervals such as period of a pendulum. Volume of regular and irregular solids Density of solids and liquids Methods of improving measurement precision; micrometer screw gauge; vernier callipers.
Chapter 2: Describing motion	Define and calculate average speed. Draw and interpret speed-time graphs, distance-time graphs, Calculate acceleration and deceleration.
Chapter 3: Force and motion	Balanced and unbalanced forces. Force, mass and acceleration. Describe falling through air. Scalars and vectors. Momentum
Chapter 4: Turning effects of forces	Define Moment of force, principle of moments, and Centre of mass, calculating moments. Explain forms of stability and equilibrium.
Chapter 5: Force and matter	Describe deforming forces and stretching springs. State and apply Hooke's law, Pressure in solids and liquids. Explain how gases exert pressure.
Chapter 6: Energy Transformations	Identify Forms of energy and energy conversions. Law of conservation of energy
Chapter 7: Energy resources	Renewable and non-renewable energy sources. The sun as main source of energy.
Chapter 8: Work and power	Define and calculate work done Define and calculate power and efficiency
Chapter 9: Kinetic model of matter	States of matter and Kinetic model of matter. Forces and pressure exerted by a gas
Chapter 10: Thermal properties of matter.	Temperature and temperatures scales Thermal expansion, Thermal capacity and Specific heat capacity and Latent heat.
Chapter 11: Thermal energy transfer.	Conduction, Convection and Radiation
Chapter 12: Sound	Producing sound, Speed of sound and how sound travels
Chapter 13: Light	Reflection, Refraction of light and Total internal reflection, Lenses
Chapter 14: Properties of waves	Describe waves in terms of frequency, amplitude, period and speed. Wave equation, Reflection and refraction of waves, Diffraction of waves.
Chapter 15: Spectra	Dispersion of light and The electromagnetic spectrum
Chapter 16: Magnetism	Properties of magnets and induced magnetism, Magnetisation and demagnetisation, Permanent magnets and electromagnets.
Chapter 17: Static electricity	Charging and discharging and explaining static electricity.
Chapter 18: Electrical quantities	Electric current, EMF and potential difference, Resistance of a conductor, resistance wire Electrical energy.
Chapter 19: Electric circuits	Electric circuit symbols, Series and parallel diagrams Dangers of electricity, Action of circuit components and Logic gates, Cathode rays and CRO.
Chapter 20: Electromagnetic forces	Magnetic effect of electric current and DC motor. Force on a current carrying conductor. Application of magnetic effect including relays.