

# HS SCHOOL REVISION GUIDE

**ENGLISH MODERN SCHOOL  
MOCK EXAM STUDY GUIDE**

**18TH—26TH JANUARY 2016**

# IGCSE



# HS SCHOOL REVISION GUIDE

## CONTENTS

iGCSE Arabic .....	3
iGCSE Islamic Studies.....	4
iGCSE French.....	5
iGCSE ICT .....	7
iGCSE Biology.....	8
iGCSE English Literature.....	10
iGCSE English 2st Language.....	11
iGCSE English 1st Language.....	12
iGCSE Business Studies.....	13
iGCSE Geography .....	14
iGCSE Accounts.....	15
iGCSE Economics.....	16
iGCSE History.....	17
iGCSE Mathematics.....	18
iGCSE Chemistry . .....	19
iGCSE Physics . .....	21



# HS SCHOOL REVISION GUIDE

## ARABIC 2016

**SUBJECT: IGCSE ARABIC 1ST LANGUAGE**

**TEACHER: MR ABDULRAHMAN**

**EXAM DATE: 24.01.16@ 08AM**

Mock Examinations are scheduled from Monday 18 January till Tuesday 26. 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.

The exam will last for 2 hours.

TOPICS TO BE COVERED	DETAIL
القراءة	فهم المقروء . - استخراج الأفكار الرئيسية من النص . - التلخيص . - الدمج . -
الكتابة	كتابة نص نقاشي . - كتابة نص إقناعي . -
	Revise Past papers questions.



# HS SCHOOL REVISION GUIDE

## ARABIC 2016

**SUBJECT: iGCSE ISLAMIC STUDIES**

**TEACHER: MR ABDULRAHMAN**

**EXAM DATE: 18.01.16 @ 8AM**

Mock Examinations are scheduled from Monday 18 January till Tuesday 26. 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.

The exam will last for 2 hours.

TOPICS TO BE COVERED	DETAIL
التفسير	النهي عن موالاة الكفار صفحة رقم 26
الحديث	قيمة الاخلاص و أهميته صفحة رقم 36
العقيدة	الشرك بالله تعالى ( أسبابه و مظاهره ) صفحة رقم 44
الفقه	حد الزنا والقذف صفحة رقم 71
البحوث	العلمانية صفحة رقم 85
الاخلاق	التوكل والتواكل صفحة رقم 92



# HS SCHOOL REVISION GUIDE CREATIVE ARTS 2016

**SUBJECT:**

**IGCSE FRENCH**

**TEACHER:**

**MRS ALIA**

**EXAM DATE:**

**24.01.16 @ 8AM**

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

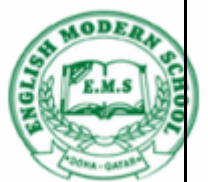


# HS SCHOOL REVISION GUIDE

## CREATIVE ARTS 2016

**SUBJECT:** IGCSE FRENCH  
**TEACHER:** MRS ALIA  
**EXAM DATE:** 24.01.16 @ 8AM

<b>Quel temps fait-il ?</b> <i>(What's the weather like?)</i>	(Present)
<b>Description d'une maison</b> <i>(house description)</i>	
<b>Les travaux ménagers</b> <i>(housework)</i>	
<b>Les souhaits</b> <i>(wishes)</i>  <b>Célébrer une fête</b> : COMME un anniversaire, un réveillon de fin d'année, un réveillon de Noël etc... : <i>(celebrating something like a birthday, Christmas, new year....)</i>	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>
<b>Les magasins</b> <b>Les aliments</b> <i>(Les fruits, les légumes, les viandes, les produits d'épicerie...)</i> → <b>Dans un restaurant.</b>	Formules de politesses  <i>(Anything done about food and meals)</i>
<b>B/ GRAMMAIRE</b>  * <b>La situation dans le temps</b> <i>(the time line)</i> * <b>Le présent</b> <i>(the present tense)</i> * <b>Le passé composé</b> : <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>  * <b>L'imparfait + les exceptions</b> <i>(the imperfect tense + the exceptions)</i>  * <b>Les interrogatifs</b> <i>(question words)</i>  * <b>Le future</b> <i>(the future)</i>   * <b>Les adjectifs possessifs</b> * <b>Les pronoms possessifs</b>  * <b>Les adjectifs démonstratifs</b> <i>(the demonstratives)</i>  * <b>Les prépositions</b> <i>(prepositions with the countries, cities and transportations)</i>  <b>Les partitifs</b> → du /de la / de l'/ des/	- Hier/ demain/ la semaine dernière etc... <i>(the table)</i> Les verbes en <b>-er / -ir / -re</b> Les verbes en <b>-er / -ir / -re</b> avec "avoir" Les <b>26</b> verbes <i>(26 verbs)</i>  Les <b>13</b> verbes <i>(13 verbs)</i>  <b>-ger / -cer</b> ...etc...  Qui ? / que ? / comment ? / où ?...etc...  Le futur simple <i>(the simple future)</i> Le futur proche <i>(the near future)</i>  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



# HS SCHOOL REVISION GUIDE

## CREATIVE

**SUBJECT:**

**IGCSE ICT**

**TEACHER:**

**MR ARTHUR**

**EXAM DATE:**

**PRACTICAL 17.01.16 @ 1PM**

**11-1+2, 113+4, 113+4+5+6**

**PRACTICAL 18.01.16 @ 11AM**

**11-5+6, 11-7**

**THEORY 25.01.16 @ 11AM**

The ICT IGCSE mock exams will be done as follows: there will be one practical paper on 17 or 18 Jan 2016 and one theory paper on 25 Jan 2016.

The units covered in these exams will be as follows:

**Practical Paper:**

Chapter 9: communication

Chapter 10: document production

Chapter 11: data manipulation

Chapter 12: Integration

Chapter 13: output data

**Theory Paper**

Chapter 1: Types and Components of a computer system

Chapter 2: Input and Output devices

Chapter 3: storage devices and media

Chapter 4: computer networks

Chapter 5: data types

Chapter 6: effects of using ICT



**SUBJECT: IGCSE BIOLOGY CORE**  
**TEACHER: MRS SREEREKHA**  
**EXAM DATE: 20.01.16 @ 11AM**

Mock Examinations are scheduled from Wednesday 13 January till Tuesday 26 January 2016. 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.

The exam will last for two hours

TOPICS TO BE COVERED	DETAIL
<b>Unit 1</b> <b>Cells and Cell Processes</b>	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 by diffusion, osmosis and active transport
<b>Unit 2</b> <b>Biological Molecules and Enzymes</b>	Structure of carbohydrates, proteins, fats and their roles in living organisms, the importance of water in living organisms, identification of biological molecules, enzymes and how they work.
<b>Unit 3</b> <b>Animal Nutrition</b>	Teeth- different types, their functions, structure, tooth decay, balanced diet, energy requirements for different types of individuals, role of vitamins and minerals in humans, causes and treatment of Cholera, the human digestive system and the function of different organs, the role of enzymes in digestion.
<b>Unit 4</b> <b>Plant Nutrition and Transport</b>	Photosynthesis, structure of a leaf, transport in plants- xylem and phloem vessels, their structure and function, mineral requirements and effects of deficiency, transpiration, translocation
<b>Unit 5</b> <b>Respiration and Gas Exchange</b>	Aerobic and anaerobic respiration, fermentation, human gas exchange system, effect of exercise on rate and depth of breathing, breathing and effects of smoking on lungs.
<b>Unit 6</b> <b>Transport in Humans</b>	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.
<b>Unit 7</b> <b>Diseases and Immunity</b>	Transmissible diseases and methods of transmission, defence mechanisms of the body, phagocytosis and mode of antibodies, importance of hygiene and sewage treatment in con-
<b>Unit 8</b> <b>Coordination and Response</b>	Coordination and response- nervous system and endocrine system in humans, structure and function of the eye, joints and muscles, tropisms in plants.
<b>Unit 9</b> <b>Homeostasis, Excretion and Drugs</b>	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.
<b>Unit 10</b> <b>Reproduction</b>	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.
<b>Unit 11</b> <b>Heredity</b>	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, mutations, adaptation, natural and artificial selection.
<b>Unit 12</b> <b>Organisms and the Environment (including Classification)</b>	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, population size-birth and death rates, environmental factors, classification-characteristics of living things and using keys to identify unknown organisms.



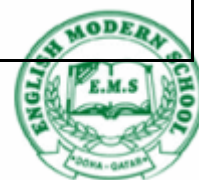
**SUBJECT: IGCSE BIOLOGY EXT.**

**TEACHER: MRS SREEREKHA**

**EXAM DATE: 20.01.16 @ 11AM**

Mock Examinations are scheduled from Wednesday 13 January till Tuesday 26 January 2016. 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.

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 Enzymes	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.



# HS SCHOOL REVISION GUIDE

## ENGLISH 2016

**SUBJECT: iGCSE ENGLISH LITERATURE**

**TEACHER: MRS ANGELA**

**EXAM DATE: 18.01.16@ 11 AM**

Mock Examinations are scheduled from Thursday 17 January till Tuesday 26 January 2016. 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 Weebly.

The exams will last 90 mins.

TOPICS TO BE COVERED	DETAIL
Paper 1 & 2  Show detailed knowledge of the content of literary texts in the three main forms (drama, poetry and prose)  Understand the meanings of literary texts and their contexts, and explore texts beyond surface meanings to show deeper awareness of ideas and attitudes.	Students are expected to have a thorough understanding of the following texts:  Set Prose text; The Strange Case of Dr Jekyll and Mr Hyde- R. L. Stevenson.  Set Drama text: The Merchant of Venice-Shakespeare  Collection of poems  Unseen text



# HS SCHOOL REVISION GUIDE

## ENGLISH 2016

**SUBJECT: IGCSE ENGLISH 2ND LANGUAGE**

**TEACHER: MR GUNNAR / MRS KAWTHAR**

**EXAM DATE: 19.01.16@ 8 AM**

Mock Examinations are scheduled from Thursday 17 January till Tuesday 26 January 2016. 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 Weebly.

The exam will last two hours.

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.
UNITS 11-16	1. Reading exercise
Past papers	2. Reading exercise
	3. Information transfer
	4. Note-making
	5. Summary writing (100-120 words)
	6. Article writing (150-200 words)
	Letter writing (150-200 words)



# HS SCHOOL REVISION GUIDE

## ENGLISH 2016

**SUBJECT: IGCSE ENGLISH 1ST LANGUAGE**

**TEACHER: MRS ANGELA**

**EXAM DATE: PAPER 2 19.01.16 @ 8 AM**

**PAPER 3 19.01.16 @ 11 AM**

Mock Examinations are scheduled from Thursday 17 January till Tuesday 26 January 2016. 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 Weebly.

The exam will last two hours.

TOPICS TO BE COVERED	DETAIL
<p>Paper 2 &amp; 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>Demonstrate a precise understanding of extended texts.</p> <p>Synthesise, develop, analyse and evaluate facts, ideas and opinions.</p> <p>Effectively summarise, paraphrase and re-express.</p> <p>Demonstrate understanding of how writers achieve their effects.</p> <p>Express effectively what is thought, felt and Imagined.</p> <p>Order and convey facts, ideas and opinions Effectively.</p>



**SUBJECT: IGCSE BUSINESS STUDIES**

**TEACHER: MRS HEMA / MR WILLIAM**

**EXAM DATE: 21.01.16 @ 11AM**

Mock Examinations are scheduled to be held during January 2016. 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.

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)  
Students will need a calculator.

### TOPICS TO BE TESTED ON:

#### Section 1- Understanding business activity

- Business Activity
- Classification of Business
- Enterprise, Business Growth and size
- Types of Business Organisation

Business Objectives and Stakeholders Objectives

#### Section 2- People in Business

- Motivating workers
  - Organisation and Management
  - Recruitment, selection and training of workers
- Internal and External communication

#### Section 3- Marketing

- 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

#### Section 5- Financial Information and financial decisions

- Business finance- Need for finance and sources
- Cash flow forecasting and Working Capital
- Income Statements
- Balance Sheets
- Analysis of accounts

### EXAM PREPARATION TECHNIQUE:

Read, learn and revise the text book thoroughly well for all topics covered.

Please refer IGCSE Business Studies CIE **past papers** for the portions covered:  
Practice answering questions, use marking schemes to check answers and revise well.



# HS SCHOOL REVISION GUIDE

## HUMANITIES 2016

**SUBJECT: IGCSE GEOGRAPHY**

**TEACHER: MRS MEGAN**

**EXAM DATE: 24.01.16@ 11AM**

Mock Examinations are scheduled from Monday 18 January 2016. The exam for this subject will last for 120 minutes and make up 80% of the term grade. A revision packet with practice questions was given to each student before winter break.

SAMPLE OF VOCABULARY AND CONCEPTS	DETAIL
<p>Drought Evaporation Pollution How can we conserve water? How can we treat water so that it is safe to drink? Why is clean water important? Causes of air and water pollution Settlement hierarchy Rural / Urban HEP / CBD / NIC Why is HEP good? Why is HEP bad? Reservoir (for water) Infant mortality Adult literacy What causes food shortages in poor countries? Industry / Manufacturing / High technology Location factors for industry Employment structure (primary / secondary / tertiary) Why do MEDCs have more people working in tertiary industries? Why do LEDCs have more people in primary industries? Case study on high technology Case Study on manufacturing technology Pedestrian count Isolines (on a map) Birth rate / Death rate Natural population growth / Population density / Population distribution Population structure / Employment structure Reasons why MEDCs have low death rate / high birth rate Reasons why LEDCs have high death rate / low birth rate How can governments reduce death rate / birth rate? Case study on international migration Natural inputs on a farm (rain, sun, soil, etc.) Human inputs on a farm (labour, machines, chemical fertilizers, etc.) How is tourism good for a community? How can tourism be bad for a community? Why do floods / hurricanes / earthquakes kill more poor people? Plate tectonics (able to explain and draw different plate boundaries)</p>	<p><b>All notes in notebooks from 10<sup>th</sup> and 11<sup>th</sup> grade should be reviewed and well as all chapters covered in the textbook “The New Wider World.”</b></p> <p><b>Students can refer to past paper exams and various study guides given out throughout the terms.</b></p>



# HS SCHOOL REVISION GUIDE

## HUMANITIES 2016

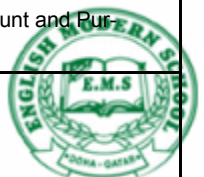
**SUBJECT: IGCSE ACCOUNTS**

**TEACHER: MRS MARIE**

**EXAM DATE: 26.01.16@ 11AM**

Mock Examinations are scheduled on January 2016. 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. The exam will last for two hours.

TOPICS COVERED	DETAIL
Double Entry Bookkeeping	<ol style="list-style-type: none"> <li>1. Double entry bookkeeping for assets, liabilities, expenses, income, drawings, sales, purchases, returns</li> <li>2. Balancing of ledger accounts</li> <li>3. Types of specialist ledgers</li> <li>4. Preparation of three column cash book</li> </ol>
Trial Balance and Errors Journal Entries and Correction of Errors	<ol style="list-style-type: none"> <li>1. Preparation of the Trial Balance</li> <li>2. Errors that affect the balancing of Trial Balance</li> <li>3. Errors that does not affect the balancing of the Trial Balance</li> <li>4. Correction of errors, suspense account and effect on Income Statement and Balance Sheet</li> </ol>
Petty Cash Book	<ol style="list-style-type: none"> <li>1. The Imprest System of Petty Cash</li> <li>2. Preparation of the Petty Cash Book</li> </ol>
Business Documents	<ol style="list-style-type: none"> <li>1. The invoice, debit note, credit note, statement of account, cheque and receipt</li> <li>2. The Cash Discount and Trade Discount</li> </ol>
Books of Prime Entry	<ol style="list-style-type: none"> <li>1. Cash book, petty cash book, sales journal, purchases journal, sales return journal, purchases returns journal, general jour.</li> </ol>
Final Accounts	<ol style="list-style-type: none"> <li>1. Preparation of the Financial Statements- Income Statement and Balance Sheet</li> </ol>
Accounting Rules	<ol style="list-style-type: none"> <li>1. The different accounting principles – business entity, duality, money measurement, realisation, consistency, matching, going concern, materiality, prudence, historical cost, accounting period.</li> <li>2. Objectives in selecting accounting policies- relevance, reliability, comparability, understandability</li> <li>3. Capital and revenue expenditure and receipts Stock Valuation</li> </ol>
Accruals and Prepayments	<ol style="list-style-type: none"> <li>1. Preparation of Ledger entries for accruals and prepayments</li> </ol>
Depreciation of Fixed assets	<ol style="list-style-type: none"> <li>1. Methods of Calculating depreciation</li> <li>2. Journal Entries and recording provision for depreciation in the ledger and final accounts</li> </ol>
Bad Debts and Provision for Doubtful Debts	<ol style="list-style-type: none"> <li>1. Journal entries and recording of Bad Debts, Bad Debts recovered, Provision for Doubtful Debts in the ledger and final accounts</li> <li>2. Increasing and decreasing provision for Doubtful debts</li> </ol>
Bank Reconciliation Statement	<ol style="list-style-type: none"> <li>1. Preparation of a bank reconciliation statement and updating of cash book</li> </ol>
Control Accounts	<ol style="list-style-type: none"> <li>1. Preparation of a Sales Ledger Control Account and Purchases Ledger Control account</li> </ol>
Incomplete Records	<ol style="list-style-type: none"> <li>1. Preparation of statement of affairs</li> <li>2. Margin, Mark up and turn-over</li> </ol>



# HS SCHOOL REVISION GUIDE

## HUMANITIES 2016

**SUBJECT: IGCSE ECONOMICS**

**TEACHER: MR JAMES**

**EXAM DATE: 25.01.16@ 8AM**

Mock Examinations are scheduled from Monday 18 January 2016. To assist students prepare for these examinations a revision guide has been assembled to ensure that all students are aware of the work to be covered for the examination in this subject.

TOPICS TO BE COVERED	DETAIL
<p><b><u>Economics</u></b></p> <p>The Basic Economic Problem Economic Systems How markets work Social costs and benefits Money and finance Occupations and earnings The role of trade unions Spending, saving borrowing Types of business organization Organisation of production The growth of firms Competition Government economic policy Taxation Price inflation Employment and unemployment</p>	<p><b>All notes in notebooks to be learnt – as well as Unit 1 to 6 from textbook:</b></p> <p>‘Complete Economics for Cambridge IGCSE &amp; O Level (Second Edition) Sir Dan Moynihan and Brian Titley’.</p>





# HS SCHOOL REVISION GUIDE

## HUMANITIES 2016

**SUBJECT:** iGCSE HISTORY  
**TEACHER:** MR ROB  
**EXAM DATE:** 24.01.16 @ 11AM

Mock Examinations are scheduled from Monday 18 January 2016. To assist students prepare for these examinations the teacher has drawn up a Revision Guide to ensure that all students are aware of the work to be covered for the examination in this subject.

The exam for this subject will last for 120 minutes **(80 marks)**

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



# HS SCHOOL REVISION GUIDE

## MATH 2016

**SUBJECT:** IGCSE MATHEMATICS  
**TEACHER:** MR ALFREDO  
MRS ELIZABETH  
MS JABEEN  
**EXAM DATE:** 20.01.16 @ 8 AM

Mock Examinations are scheduled from Monday 18 January to Tuesday 26 January, 2016. 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.

The exam will last for two (2) hours.

### CORE AND EXTENDED:

TOPICS TO BE COVERED	DETAIL
Chapters 1-20	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, quizzes and tests given.



**SUBJECT: IGCSE CHEMISTRY CORE**

**TEACHER: MRS ELIZABETH**

**EXAM DATE: 21.01.16 @ 8AM**

Mock Examinations are scheduled from Thursday 14 January till Tuesday 26 January 2016. 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.

The exam will last for two hours.

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

**SUBJECT: IGCSE CHEMISTRY EXT.**

**TEACHER: MRS ELIZABETH**

**EXAM DATE: 21.01.16 @ 8AM**

Mock Examinations are scheduled from Thursday 14 January till Tuesday 26 January 2016. 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.

The exam will last for two hours.

TOPICS TO BE COVERED	DETAIL
<b>UNIT 1. The particulate nature of matter</b>	<ul style="list-style-type: none"> <li>Describe the states of matter and explain their interconversion in terms of the kinetic particle theory</li> <li>Describe and explain diffusion</li> </ul>
<b>UNIT 2. Experimental techniques &amp; criteria of purity</b>	<ul style="list-style-type: none"> <li>Interpret simple chromatograms</li> <li>Identify substances and assess their purity from melting point and boiling point information.</li> <li>Describe methods of purification by the use of a suitable solvent, filtration, crystallisation, distillation.</li> </ul>
<b>UNIT 3. Atoms, elements, and compounds</b>	<ul style="list-style-type: none"> <li>Proton number and nucleon number.</li> <li>Isotopes</li> <li>Ions and ionic bonds</li> <li>Molecules and covalent bonds</li> <li>Metallic bonding</li> </ul>
<b>UNIT 4. Stoichiometry</b>	<ul style="list-style-type: none"> <li>Formula of a simple compound from the relative numbers of atoms present</li> <li>Construct word equations and simple balanced chemical equations</li> <li>Define relative molecular mass, <math>M_r</math>, as the sum of the relative atomic masses</li> <li>The mole concept</li> </ul>
<b>UNIT 5. Electricity and chemistry</b>	<ul style="list-style-type: none"> <li>Relate the products of electrolysis to the electrolyte and electrodes used</li> <li>Describe electrolysis in terms of the ions present and reactions at the electrodes in the examples given</li> </ul>
<b>UNIT 6. Chemical energetics</b>	<ul style="list-style-type: none"> <li>Describe the meaning of exothermic and endothermic reactions</li> <li>Describe the production of electrical energy from simple cells</li> <li>Describe the use of hydrogen as a potential fuel</li> </ul>
<b>UNIT 7. Chemical reactions</b>	<ul style="list-style-type: none"> <li>Describe the effect of concentration, particle size, Catalysts</li> <li>Describe and explain the effects of temperature and concentration in terms of collisions between reacting particles</li> <li>Reversible reactions</li> <li>Redox reactions</li> </ul>
<b>UNIT 8. Acids, bases and salts</b>	<ul style="list-style-type: none"> <li>Define <i>acids</i> and <i>bases</i> in terms of proton transfer, limited to aqueous solutions</li> <li>Describe the meaning of weak and strong acids and bases</li> <li>Classify oxides as either acidic or basic, related to metallic and non-metallic character</li> <li>Describe the preparation of insoluble salts by precipitation</li> </ul>
<b>UNIT 9. The Periodic table</b>	<ul style="list-style-type: none"> <li>Describe the Periodic Table as a method of classifying elements and its use to predict properties of elements</li> <li>Describe the relationship between Group number, number of valency electrons and metallic/non-metallic character</li> <li>Identify trends in other Groups, given information about the elements concerned</li> <li>Describe the transition elements.</li> <li>Describe the noble gases as being unreactive</li> </ul>
<b>UNIT 10. Metals</b>	<ul style="list-style-type: none"> <li>Describe the general physical and chemical properties of Metals</li> <li>Describe the ease in obtaining metals from their ores by relating the elements to the reactivity series</li> <li>Describe the essential reactions in the extraction of iron from hematite</li> <li>Describe in outline, the extraction of zinc from zinc blende</li> </ul>



**SUBJECT: IGCSE PHYSICS**  
**TEACHER: MR LAWRENCE**  
**EXAM DATE: 26.01.16 @ 8AM**

Mock Examinations are scheduled for Thursday January 14 till Thursday January 26, 2016. To assist students prepare for these examinations the teachers have drawn up Revision Guides to ensure that all students

TOPICS TO BE COVERED	DETAILS
Chapter 1: Measurement The exam will last for two hours.	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, 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.

