



Scheme of work

Grade 10

Spring Term
(Until April 2020)



Art

Learning Objectives for the term:

Each student should address the four assessment objectives throughout component 1:

The assessment objectives (AOs) are:

AO1 Record: Record ideas, observations and insights relevant to intentions as work progresses.

AO2 Explore: Explore and select appropriate resources, media, materials, techniques and processes.

AO3 Develop: Develop ideas through investigation, demonstrating critical understanding.

AO4 Present: Present a personal and coherent response that realises intentions and demonstrates an understanding of visual language.

Teaching sequence

Week 1 to Week 10: Students should aim to have one finished and finessed composition at the end of each half term. Leading up to this, the students will average four preparation pieces (depending on the level of complication) as well as completed sketches and research in their sketchbooks.

Students should aim to have completed the final outcome (component 1) by the end of this term. Students will be given the art examination (component 2) questions during the term and should begin exam preparation.

The art exam is scheduled for the first week of the Summer term.



Biology - Coordinated

This term, the students will study:

B11.2: Mitosis and Meiosis: Students must explain the function of these two different types of cell division and must be able to explain the movement of chromosomes in both examples. Students should explain how meiosis allows for effective reproduction.

B11.4: Blood type and natural selection: Students must explain how blood type is inherited and the biological implications of one's blood type. Students must then move onto studying the process of natural selection and how this causes the evolution of a species.

Assessment will consist of topic specific tests completed in class at the end of each module. The topic tests will allow students to demonstrate their ability in the three science assessment objectives:

AO1: Knowledge with understanding.

AO2: Handling information and problem solving.

AO3: Experimental skills and investigation.



Biology - Single

This term, the students will study:

B15: Drugs: Students will study the different types of drugs and their effects on the body, this includes both illegal and medicinal drugs,

B16: Reproduction: Students will move on to study the processes of asexual and sexual reproduction both in plants and humans, students should be able to explain the advantages and disadvantages of the two different types of reproduction.

B17: Inheritance and cell division: Students study how DNA, Chromosomes and Genes are inherited and how the two different types of cell division (mitosis and meiosis) allow for effective reproduction and growth.

Assessment will consist of topic specific tests completed in class at the end of each module. The topic tests will allow students to demonstrate their ability in the three science assessment objectives:

AO1: Knowledge with understanding.

AO2: Handling information and problem solving.

AO3: Experimental skills and investigation.



Chemistry - Coordinated

This term, the students will study:

C9: The periodic table: Review the use of the Periodic Table as a method of classifying elements and its use to predict properties of elements. Describe the properties of alkali metals, halogens, transition elements and noble gases.

C12: Sulfur: Describe the manufacture of sulfuric acid by the contact process including essential reactions.

C13: Carbonates: Describe the manufacture of lime from limestone in terms of the chemical reactions involved and subsequent uses. Describe the thermal decomposition of limestone.

C14. Organic chemistry. Describe how petroleum is separated into useful fractions and the uses of each product. Students will research the structure and properties of alkanes, alkenes and alcohols. The term polymer will be researched, the processes of addition and condensation polymerisation will be discussed.

Assessment will consist of topic specific tests completed in class at the end of each module. The topic tests will allow students to demonstrate their ability in the three science assessment objectives:

AO1: Knowledge with understanding.

AO2: Handling information and problem solving.

AO3: Experimental skills and investigation.



Chemistry - Single

This term, the students will study:

C9: The periodic table: Review the use of the Periodic Table as a method of classifying elements and its use to predict properties of elements. Describe the properties of alkali metals, halogens, transition elements and noble gases.

12: Sulfur: Research industrial processes using sulfur including sources, manufacture of sulfuric acid by the Contact process and the uses of sulfuric acid and sulfur dioxide.

13: Carbonates: Describe the manufacture of lime from calcium carbonate in terms of thermal decomposition. Students will research the uses of lime, slaked lime and calcium carbonate.

14: Organic chemistry: Name and draw the structures of methane, ethane, ethene, ethanol, ethanoic acid and esters made from unbranched alcohols of carboxylic acid. Describe the process by which petroleum is separated and describe uses for each fraction. Research and describe the structure, properties, manufacture and uses of alkanes, alkenes, alcohols and carboxylic acids. Define the terms polymer and polymerisation and describe the differences between condensation and addition polymerisation with products for each.

Assessment will consist of topic specific tests completed in class at the end of each module. The topic tests will allow students to demonstrate their ability in the three science assessment objectives:

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Drama

This term Grade 10 will be working on their pre-release material which has been sent from Cambridge. This will be the material they will reflect on and answer questions on, within their final examination in the summer.

The pre-release material consists of three stimuli (such as short titles, poems, pictures, songs, historical events, stories, etc.) Candidates will work in a group to devise and perform a piece of drama based on one of the stimuli. The piece should last approximately 15 minutes. In the Written examination candidates will be required to reflect on and evaluate aspects of their practical work.

The pre-release will also provide an extended extract (or an abridged version of an entire play) from one of a repertoire of plays from a variety of genres, countries and periods. Candidates will study the extract to enable them to understand both the text and the practical aspects of production. They will then perform it, informally.

Candidates will not be assessed on their performance of the play but will be questioned on the practical skills used, within the exam.

Students will continue to practice and improve their written/technical skills, to answer the questions that could appear in the final written paper, throughout this term.

Assessment criteria:

A01: Understanding Repertoire - candidates will be assessed on their ability to demonstrate knowledge and understanding of the possibilities of repertoire, and how to interpret and realise it in a live performance.

A02 Devising - Candidates will be assessed on their ability to devise dramatic material and reflect on its effectiveness.

A03: Acting skills - Candidates will be assessed on their acting skills and their ability to communicate effectively to an audience.



English

In First Language English this term, we will be continuing exam practice through completing past paper questions, both in class and for homework. This will be through looking at a range of fiction and non-fiction texts, similar to those that will be in their final exam. There will be a strong focus on the longer-answer questions (1f, 2d and 3), as these contribute to a great deal of the exam. Students should have finished their three coursework assignments, which will be moderated as soon as possible. There are Coursework Clinic sessions being held each Tuesday and Wednesday after school, for which Grade 10 First Language English students must attend on the date individually specified.

In Literature in English, we will be continuing our drama module, studying the play Macbeth. This will involve looking at historical context, as well as characterisation and themes. The class will be completing comprehension questions, as well as writing more in-depth analytical paragraphs and essays to explore the play. Each week, there will be mini quizzes based on the Macbeth knowledge organiser, which students were given last term to revise from. This knowledge organiser is also on Google Classroom.

Assessment

Regarding First Language English, students will be completing a past paper (Paper 1) before half term, as well as before the spring break. As stated previously, students should have completed their three coursework assignments (if not, they will do so in the Coursework Clinic sessions with Mr. Crowther and I), which will be moderated promptly.

Literature in English students will be completing practice past papers for both Paper 1 and Paper 2 before half term and in the week before spring break. Paper 1 involves one poetry question for the Carol Ann Duffy poetry anthology studied last year and one prose question, on the novel Nineteen Eighty-Four, which the students covered last term. Paper 2 will involve drama questions: one on Romeo and Juliet (which students studied last year) and one question on Macbeth.



French

This term in Grade 10, pupils will be covering the following units of the second year of their iGCSE French course:

Unit 8: Post-16 education, exams, pathways, university, gap years.

Unit 9: Future careers, work placements and internships, summer jobs, working abroad.

Unit 10: Mobile phones, ICT in school, dangers of the internet, staying safe online, communication.

Unit 11: Talking about a past holiday, the importance of holidays, accommodation on holiday, road accidents.

Unit 12: Peer pressure, growing up, unemployment, palm oil, discrimination, inequality, injustice.

Assessment

With respect to assessment, students will regularly undertake exam-style practice in order to prepare them as fully as possible for their iGCSE exams. The nature of these in-class assessments will be determined primarily by the needs of the students, informed in part by their mock examination results.



History

This term, Grade 10 pupils will be covering the last three topics left in the Core content. This will consist of the following:

How effectively did the United States contain the spread of Communism? The following topics will be covered:

- The Korean War 1950 to 1953
- The United States and events in Cuba 1959-62
- The Cuban Missile Crisis
- The Vietnam War

How secure was the USSR's control over Eastern Europe 1948-c. 1989?

- Why was there opposition to Soviet control in Hungary in 1956 and Czechoslovakia in 1968, and how did the Soviet Union react to this opposition?
- How similar were events in Hungary in 1956 and Czechoslovakia in 1968?
- What was the significance of 'Solidarity' in Poland for the decline of Soviet influence in eastern Europe?
- How far was Gorbachev personally responsible for the collapse of Soviet control over eastern Europe?

Why did events in the Gulf matter, c. 1970-2000?

- Examine Saddam Hussein's rise to power in Iraq
- Identify the key features of Saddam Hussein's dictatorship up to 2000 together with the consequences of his rule for the different groups in Iraq.
- Look at the reasons for the revolution in Iran in 1979 including the nature of the Shah's rule.
- Consider the causes and consequences of the Iran-Iraq war 1980-88 and examine the reasons for western involvement in the war.
- Look at the causes, course and consequences of the First Gulf War, 1990-1.

All of the above will be mainly assessed using past IGCSE History papers.



Geography

This term in Geography, the students will complete Theme 3, the final theme of the syllabus. The focus of Theme 3 is economic development. The students will learn about: food production, industry, tourism, energy and water. They will also study and analyse the environmental risks of economic development. They will develop an understanding of the need for sustainable development and manage, as well as understanding the importance of resource conservation.

At the end of each unit, the students will complete two past papers, based on the content covered in the style of Paper 1 and Paper 2 respectively. The students will also be given practice exam questions to complete at home in order to help prepare for the end of unit tests.



ICT

This term, students will be turning their attention to Paper 2. Students will be working their way through the pre-release material to complete a working python program of a car park payment system. They are required to complete 3 tasks which will test their understanding of high level programming language. This term all students will be working on their python skills ensuring that they fully understand their code and why they've created the code they have, ensuring that they include validation, verification techniques, error messages where appropriate and all variables, constants and other identifiers have meaningful names.



Islamic Studies

هذا الفصل لدى الطلاب مقرر حفظ سورة المجادلة + حديث (التحذير من الشبهات)

التجويد : المد الطبيعي وما في حكمه

التلاوة والفهم : (سورة النور 43-46) + (سورة الأنعام 161-165)

الدروس :الوحدة الأولى : الإعجاز : البياني - التشريعي - العلمي - الغيبي

الوحدة الثانية :التحذير من الشبهات - الإسلام دين حضارة- الإسلام ينبذ التطرف - الدين القيم

ملاحظة : **نأخذ الدروس على ترتيب الكتاب

**لدينا اختبار قصير واحد لهذا الترم

** الحفظ بالنسبة للقرآن الكريم والأحاديث يجب أن يكون كتابيا وشفويا.



Mathematics

Students will work through Extended level topics that were identified in the mock examination as areas of weakness and the homework emphasis will come from completing paper 4 style examination question on these topics

* Best guess the sections to focus on for revision based on past papers

Functions

- Mapping diagrams
- Functions and function notation *
- Composite Functions *
- The absolute value of a Function Mod $|x|$
- Reciprocal Functions *
- Graphs of functions
- Transforming functions
- Inverse functions *

Measurement: Solids and Containers

- Surface area*
- Volume*
- Capacity
- Density

Transformation Geometry

- Translations*
- Reflections*
- Enlargements*
- Stretches
- Inverse of a transformation
- Combinations of transformation*



P.E.

IGCSE PE is divided into two sections, a practical and a theoretical section. Each section is worth 50% of the overall grade.

THEORY

There are 2 examinations at the end of Grade 10 which are made up of multiple choice, short and long answer questions. The theoretical content of the course is vast. It covers many areas of health, sport and fitness. Some of these areas overlap with Science resulting in your child learning particular topics twice, thus improving their knowledge for both IGCSE PE and Science.

The students will be studying the following topics:

Biomechanics, Sport Psychology, Energy Systems, Training Method

PRACTICAL

In the practical assessment the students are assessed in 4 sports. These sports must be from a combination of team games, net games, outdoor activities and fitness activities.

The sports that will be covered in lessons are: Football, Rugby, Badminton, Handball, Volleyball, Rounders, Basketball, Netball, Table tennis, Tennis, Swimming and Personal Survival.

Outside of lesson time, the following sports can be offered:

-Rock Climbing (additional cost), Cross Country, Orienteering, Hill Walking, Weight Training (additional cost)

The following additional sports can be accessed by students in their own time:

Golf, Gymnastics, Dance, Distance Cycling, Canoeing, Skiing and Sailing.



Physics - Single

This term, the students will study:

P4.3: Circuits: Series and parallel circuits and how voltage and current varies in these circuits, including circuit symbols. Students must be able to interpret circuit diagrams and to calculate voltage, current and resistance.

P4.4: Digital electronics: Students must be able to explain how digital electronics differ from more traditional circuits and how these are used in modern technology.

P4.5: Dangers of electricity: Students must be able to explain the hazards associated with electricity and how to minimise risk.

P4.6: Electromagnetic effects: Students must be able to explain the process of electromagnetic induction, how electricity and magnetism interact and how motors function.

Assessment will consist of topic specific tests completed in class at the end of each module. The topic tests will allow students to demonstrate their ability in the three science assessment objectives:

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Social Studies

الدروس المقررة للدراسة حتى تاريخ 2020/4/9م

- نشأة المذهب الاباضي

- الامام جابر بن زيد والمذاهب الاباضية

- الحياة الثقافية والاجتماعية والاقتصادية

- الاحتباس الحراري

- التصحر

- الاعاصير المدارية

- أخطار الزلزال و البراكين

أدوات تقييم الطلاب أثناء الفصل

1 - شهر يناير / سؤال قصير

1 - شهر فبراير / اختبار قصير

2 - شهر مارس / سؤال قصير

- الأعمال الشفوية و الواجب المنزلي يتم تقييمها طيلة الفصل