



THE BRITISH SCHOOL  
ALEXANDRIA  
— since 1984 —

## YEAR 12 CURRICULUM OVERVIEW

### SPRING TERM 2019



#### **ARABIC IAL (AS)**

This term pupils will review some types of writing (essays and letters). Pupils will continue practicing all the different types of question in past papers.

#### **ARABIC IAL (A2)**

This term pupils will review some types of writing and study/analyze two novels (دعاء الكروان) و (الأيدي الناعمة). Pupils will continue practicing all the different types of questions in past papers.

#### **ARABIC (National Curriculum)**

This term pupils will study/analyze chapters 7 – 11 from the novel ( قصة الأيام ). Also, they will study some poems and articles. In grammar the pupils will learn some grammatical rules such as: الأعداد - إعراب الفعل المضارع - أسلوب التعجب - أسلوب التفضيل

#### **ART**

Pupils will build ideas and techniques for their sketchbook project based on the theme of 'Personal study'. They will learn and continue to build from prior knowledge and understanding of art techniques and skills which will set them up for further studies required for the International AS Art and Design course. Pupils will gather their own sketchbooks which include a personal interest showing information and images based on their chosen theme. Each will focus on refining drawing methods and showing confidence on composing a sound sketchbook of their work, which must show a clear artistic journey based on experimenting with various techniques and media. They must explore, refine and record their own artwork that reflects the theme set and must fit the marking criteria.

## **BIOLOGY**

This term pupils will complete the topic of nucleic acids and protein synthesis. They will focus on the processes of transcription and translation that results in the formation of a polypeptide. They will then go on to study transport in plants and mammals, looking at the circulatory system focusing on how oxygen is transported in red blood cells. In plant transport they will look at the processes of transpiration and translocation. Towards the end of term they will study the effect of smoking on the gas exchange system, infectious disease and Immunity. They will look at the structure and function of the gas exchange system and learn about lungs diseases such as chronic bronchitis and emphysema. With regards to infectious diseases pupils will focus on diseases such as cholera, malaria and smallpox. They will study how diseases are transmitted and discuss the social, biological and economic factors that need to be considered in the prevention and control of these diseases. Finally pupils will look at how the immune system works in humans, with regards to phagocytes and lymphocytes and how vaccinations give rise to immunity.

## **BUSINESS STUDIES**

This term pupils will build on the previous business knowledge covered on business and its environment analyzing the functional areas of a business. Students will develop their understanding of marketing and how to sell and advertise a product to satisfy the needs and wants of the customers in the hope of making a profit, including planning and international marketing. They will also learn operations and project management and the challenges managers face analysing the nature of operations in business, inventory operations and planning. They will learn and develop an understanding of finance and accounting. Students will also consider how businesses manage their people effectively. Students will learn effective models to help managers and use theorist theories to manage a business's objectives.

## **CHEMISTRY**

This term pupils will conclude the topic of physical chemistry by studying enthalpy changes and Hess's Law, as well as dynamic equilibria and Le Chatelier's Principle. They will then focus on organic chemistry and delve through the various reactions and reaction mechanisms of all main organic functional groups. Through practice and perseverance they will revise syllabus content and develop exam technique in preparation for the upcoming AS exams.

## **ENGLISH LITERATURE**

This term, pupils embark upon the last of the four texts that they will need for their AS examinations; 'The House of Mirth' by Edith Wharton. Alongside Shakespeare's 'Twelfth Night', Tennessee Williams' 'Sweet Bird of Youth' and a selection of the American transcendentalist Robert Frost's poetry, pupils will focus on close language and structural analyses of the texts, linking themes with relevant contextual and intertextual study.

## **FRENCH**

This term pupils will cover modules two and three of the text book covering the Edexcel AS topics of lifestyles, education and the future. They will listen to and read various passages related to these topics and will also complete various written tasks. New topics in grammar will

include prepositions, the conditional tense, the present participle, the passive, si clauses, the pluperfect and the subjunctive.

## **GEOGRAPHY**

Students are investigating Coastal environments to find out why they are created and shaped in a particular way. We also explore the different ways humans interact and shape the coastline using case studies. Later in the term we will research, then analyse, urban issues around the world with a particular focus on fieldwork around Kafr Abdou. Fieldwork skills will be integrated within the topics taught.

## **HISTORY**

Pupils will continue studying 'Germany, 1918-1945' and 'Russia, 1917-1991: From Lenin to Yeltsin'. In both courses they will be adding to their subject knowledge and given lots of opportunity to practise and hone their exam skills by completing lots of past questions.

## **IT**

This term, pupils will complete their skills building and preparation for the practical assessment component of the course, by completing their study of the sound and video editing unit, spreadsheets and the database file concept units. Students will then review theory concepts surrounding data, hardware and software, monitoring and control, networks and expert systems, safety and the digital divide.

## **MATHS**

This term pupils will complete the Core 1 material and then focus primarily on the Core 2 material. Students will learn how to perform differential and integral calculus and its applications to a range of problems. Students will also study three other major topics, trigonometry, logarithms and coordinate geometry. In trigonometry pupils learn how to use known trigonometry relationships to derive other relationships between the trigonometry functions and to use these to solve trigonometric equations. In the logarithm topic pupils will learn how to apply the laws of logarithms to solve equations where the unknown is the power. In coordinate geometry pupils will study the geometry of the circle and its algebraic representation and are introduced to an alternative form of angle representation, the radian.

## **PHYSICAL EDUCATION**

This term pupils will follow their pathway option. Group one will look at football, working on basic skills and simple game tactics. Group 2 will be visiting a local gym and designing a fitness programme, with Group 3 taking part in a spinning course again at the local gym.

## **PHYSICS**

Pupils will start term by completing the interrelationships between work, energy and power. Next they will finish the topic of electric fields, including their application in particle accelerators. Following this pupils will work on d/c circuits including practical investigations of internal resistance and the use of potential dividers. Finally they will study particle and nuclear physics, examining the experimental work that revealed in greater detail the nature of matter. This will introduce pupils to the standard model of contemporary physics and in particular to the fundamental forces and some of the fundamental particles.