

To be the school of choice for those who seek to be future leaders

LEARNING OBJECTIVES

GRADE ELEVEN

cognia™



مدارس قمم الحياة العالمية

Qimam El-Hayat International Schools

By the end of the year students are expected to:

Subject	Learning Objectives
English Language	<ul style="list-style-type: none">• distinguish between different viewpoints in a simple academic text.• identify different types of supporting details in a simple academic text.• synthesize information from two or more basic texts.• recognize the writer's point of view in a structured text.• understand problem and solution relationships in a structured text.• identify the main conclusions in a text that presents and contrasts arguments in a clearly signaled way.• follow the exchanges on the discussion board of a website.• understand the author's purpose and intended audience.• interpret the main message from complex diagrams and visual information.• use reference materials to check factual information, when guidance on finding relevant sources of information is provided.• understand the use of quotes in an academic text.• make inferences about the attitudes and feelings of characters based on evidence in the text.• critically evaluate the effectiveness of a simple discursive essay.• research a topic by reading a range of newspapers and magazines.• recognize the tone and intended audience of a structured text.• follow the development of a central theme in an academic text.• recognize poetic devices such as rhythm, alliteration or repetition.• be more confident with their spoken and written English.• master grammatically correct spoken and written English.• be more informative and well balanced with spoken and written English.• write deeply and sophisticatedly yet clearly and persuasively.• adapt grammatical structures and techniques that create and present their findings in oral and written presentations.• understand word roots.• grasp words in context through the CSSD strategies.• work smoothly and confidently with variation in vocabulary usages.• analyze a variety of analogies that help learners identify word relations.• work smoothly and confidently with variations in vocabulary usages.

Subject	Learning Objectives
Math	<ul style="list-style-type: none"> • recognize conic sections as intersections of planes and cones. • learn how to apply trigonometry to oblique triangles, vectors and complex numbers. • learn several techniques to solve systems of equations and inequalities. • learn to write matrices, perform matrix operations and use matrices to solve problems. • analyze sequences and series, expand binomials and determine the probability of events. • use the distance and midpoint formulas to solve problems. • identify the standard equation for a circle, ellipse, hyperbola and parabola. • work with conic sections and equations in parametric and polar form. • solve systems of equations in two variables that contain at least one second-degree equation. • describe and analyze points, vectors, lines and planes in three-dimensional space. • find tangent lines of a function and instantaneous rate of change.
Biology	<ul style="list-style-type: none"> • know how to relate homeostasis to the internal environment of the body and how negative and positive feedback maintains homeostasis. • know the interaction between organ systems in terms of homeostasis and the effect of disruption of homeostasis. • know the nervous and endocrine systems help maintain homeostasis. • know the properties and functions of neurons. • know how senses detect physical and chemical stimuli and help maintain homeostasis. • know the parts of the nervous system, their structures and functions. • know the structures and functions of each part in the Respiratory, Circulatory, Excretory and Digestive system and their diseases. • know the lymphatic system and its relationship to the circulatory system and its function in the immune system. • know the germ theory, describe the different pathogens and the way they enter the body. • identify the body systems that protect you from pathogens and the cells and proteins that fight the body's infections. • know the two types of immunity and how the cells of the immune system respond of pathogens. • know types of nutrients that help maintain homeostasis.
Physics	<ul style="list-style-type: none"> • identify the components of the electromagnetic spectrum. • know the relation between frequency and wavelength. • know the types of mirrors and the properties of images produces by each type and how to calculate the location and magnification of an image. • know the types of lenses and the properties of images produces by each type and how to calculate the angle of refraction. • know interference and diffraction and their conditions. • know the properties of LASER and its applications. • know the types of electric charges and how objects become electrically charged. • know how to solve problems related to the Coulomb's law. • know how to predict the voltage or current in simple direct current (DC) electric circuits. • know how to solve problems involving Ohm's law. • know the meaning of quantized and conserved charge. • know electric force, electric field and how to draw the electric field lines.

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<p>Chemistry</p>	<ul style="list-style-type: none"> • know the observable properties of acids, bases, and salt solutions. • know the differences between strong acids and bases. • know how to calculate and use the pH scale to characterize acid and base solutions. • know the Arrhenius, Brønsted-Lowry, and Lewis acid–base definitions. • know buffers stabilize pH in acid–base reactions. • know the definitions of solute, solvent and solution. • know how to describe the dissolving process at the molecular level. • know the factors affect the dissolving process. • know how to calculate the concentration of a solute in different ways. • know the relationship between the molality of a solute and the solution’s depressed freezing point or elevated boiling point. • know what is the rate of chemical reaction. • know the factors that affect the rate of reaction. • know the definition and role of activation energy in a chemical reaction. • know how to use Le Chatelier’s principle. • know how equilibrium is established and how to write and calculate an equilibrium constant expression for a reaction.
<p>Social Studies</p>	<ul style="list-style-type: none"> • learn how to write a summary for historical events. • learn how to find the main idea and record details. • learn how to identify the author's point of view. • learn how to read and use time lines. • learn how to identify problems and solutions, and analyze secondary sources. • learn how to analyze costs and benefits. • learn that the discovery of the Americas was a turning point in world history. • learn that the diffusion of goods and ideas changed societies worldwide. • learn about the discoveries in science and learn how they affected the world. • learn about how the right of citizens to equality surfaced during the French Revolution. • learn about how the European allies restore order and stability to Europe. • learn about how the rapid growth of the textile industry led to huge changes in many other industries. • learn about how the industrial revolution inspired new ideas about economics and affected society in many ways. • learn about the first half of the 1800s, and what issues led to civil war in the United States.

Subject	Learning Objectives
<p>French</p>	<ul style="list-style-type: none"> • l'expression du passé • le passé composé • l'imparfait • l'emploi du passé composé et de L'imparfait • v. se lever, v. parler, v. manger, v. raconter, v. dîner, v. visiter, v. arriver, v. travailler, v. réserver, v. installer, v. confirmer, v. annuler, v. appeler • v. être, v. boire, v. prendre, v. déjeuner, v. décrire, v. partir, v. se réunir • décrire les personnes • masculin et féminin des adjectifs et des noms • singulier et pluriel des adjectifs et des noms • L'expression de la quantité • v. avoir faim, v. avoir soif • l'expression de la quantité • la négation • composer des phrases • les outils de la table • les aliments • raconter et décrire • l'emploi du passé composé et de L'imparfait • composer des phrases • la civilisation de France • les habitudes • les salutations • la nourriture • compréhension pour lire • la fréquence et la continuité • les professions • le déroulement du temps • présent progressif • passé récent • futur proche • compréhension pour lire • les pronoms (C.O.D), et (C.O.I) • obligation et interdiction
<p>Computer Science</p>	<ul style="list-style-type: none"> • understand the uses of A.I. • learn importance of A.I. • learn about how Robotics Work. • understand the importance of – Security Cam. • understand the importance of – Drones. • understand the importance of – Bots. • understand the importance of Arduino. • learn the Types of Arduino boards. • understand Arduino Datatypes. • understand Arduino Shields and Sensors. • understand the importance of Web designing. • learn how to use HTML. • create Web pages. • deal with images. • use links. • understand the uses Relational Database Model. • learn importance of SQL Database. • learn about Aggregate Functions with Subqueries. • understand the Nested Subqueries. • understand the uses of VB.net. • learn importance of programming language. • learn about how to create new project. • understand the concept s of programming languages. • understand the importance of – looping structures.

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<p style="text-align: center;">Arabic Language</p>	<ul style="list-style-type: none"> • التعرف على المقصود بالتوابع ، وأقسام التوابع ، ضبط التوابع بالعلامة الإعرابية المناسبة. • التعرف على حروف العطف ، ومعانيها ، وإعراب المعطوف والمعطوف عليه . • تحديد أقسام التوكيد ، وضبط التوكيد بحسب حالة المتبوع. • استخراج البديل والتعرف على أنواع البديل ، وضبط البديل بالعلامة الإعرابية المناسبة . • التعرف على نوع الاستثناء ، وأداته ، وعلامة إعرابه . • إعراب الفعل المضارع إعراباً صحيحاً بحسب نوعه وحالته الإعرابية. • ضبط أسلوب التعجب ضبطاً صحيحاً ، والتعرف على أركانه . • تحديد الفرق بين المفاعيل و أشباه المفاعيل في الجملة . • القدرة على التفريق بين المفعول به و المفعول فيه و المفعول لأجله و المفعول المطلق . • التعرف على أنواع المفعول المطلق وضبطه في الجملة . • التعرف على مواضع همزتي الوصل والقطع وكتابتها في النصوص الكتابية كتابة صحيحة . • إتقان كتابة الهمزة في وسط الكلمة حسب قاعدة أقوى الحركات . • القدرة على كتابة الهمزة المتوسطة على الألف والواو . • إتقان كتابة الهمزة المتوسطة على الياء والسطر . • التعرف على أسباب كتابة الألف المتطرفة على صورة الألف أو الياء غير المنقوطة . • تحديد العناصر المكونة لعملية القراءة . • تحليل لغة المجالات العلمية المختلفة وبناءها المعرفية . • التعرف على مستويات القراءة وكيفية الاستفادة منها . • القدرة على تحديد مستوى الدقة العلمية بالاعتماد على (مصدر المعلومة ، مصداقية الكاتب ، حداثة المعلومة) . • اتباع استراتيجيات مناسبة لتعميق الفهم وتلخيص المعرفة : خرائط المفاهيم أو الجداول أو التشجير أو التوزيع أو التوفيق... • التمكن من مهارات التفكير العلمي وحل المشكلات: الملاحظة والتصنيف والتنظيم والتفسير والتنبؤ و فرض الفروض واختبار الفروض و التعميم. • التمكن من مهارات التفكير الناقد : التمييز بين الحقائق والادعاءات تطبيق المهارات الأساسية للتعبير الكتابي . • استخدام أساليب مختلفة من التعبير بحسب الغرض من الكتابة: الكتابة المعرفية أو السردية أو الإقناعية أو الوظيفية أو الانفعالية والتمييز بين المعلومات المرتبطة بالموضوع وغير المرتبطة به. • التعرف على أنواع الكتابة (علمية – أدبية) ومميزات كلا منها. • التعرف على كيفية وصف العلوم المختلفة ووصف نظام الأشياء . • إتقان وصف الظواهر الطبيعية والتجارب العلمية بدقة . • التعرف على كيفية بناء النص الاستدلالي وفق الخطوات المنطقية : (التعريف – إصدار الحكم – البرهنة والإثبات) . • التعرف على عناصر الموقف التواصل المعرفي والإقناعي ونماذج التواصل الإقناعي. • تحليل الأنماط الإدراكية للمستمع (بصري – سمعي – شعوري) والقدرة على توظيفها في التواصل وإقناع الآخرين .
<p style="text-align: center;">Islamic Studies</p>	<ul style="list-style-type: none"> • التعرف على نشأة علم التفسير وأقسامه وضوابطه. • تفسير سورة الفاتحة. • تفسير سورة الأعراف. • تفسير سورة النفال. • تفسير سورة يونس . • تفسير سورة هود . • تفسير سورة يوسف. • تفسير سورة الرعد. • تفسير سورة إبراهيم.
<p style="text-align: center;">Saudi History</p>	<ul style="list-style-type: none"> • التعرف على علم التاريخ. • التعرف على مفهوم التاريخ ومصادره. • التعرف على مهارات التفكير في التاريخ. • التعرف على الممالك العربية القديمة. • التعرف على التاريخ الهجري وقبله المسلمين. • التعرف على بعض المعالم التاريخية الإسلامية.

The End