

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

LEARNING OBJECTIVES

GRADE NINE

cognia™



مدارس قمم الحياة العالمية

Qimam El-Hayat International Schools

By the end of the year students are expected to:

Subject	Learning Objectives
<h3 style="color: #c00000; margin: 0;">English Language</h3>	<ul style="list-style-type: none"> • understand, analyze, compare, contrast, and make generalizations about themes and connections that cross cultures and genres • understand and analyze forms of prose, conflict, and plot structure. • understand, analyze, compare, and contrast characters, stories, and genres. • summarize a text. • paraphrase material from a text. • understand and analyze motivation. • make connection from a text. • find, understand, and analyze theme and historical content. • understand and analyze elements of poetry. • use strategies to read and analyze a poem. • understand the characteristics of different types of poetry. • analyze diction. • understand and analyze symbolism. • read print and internet sources to research questions or information. • understand and analyze dialect. • analyze details. • analyze imagery. • understand and analyze irony. • understand and analyze character and its traits. • make inferences, connections, and judgments about characters. • use the writing process to write a descriptive essay. • use the writing process to write a personal narrative based on past experience. • organize ideas in chronological order and choose relevant details. • use the writing process to write a cause-and-effect essay. • identify a cause-and-effect relationship in an informative article. • provide evidence that supports causes and effects. • read a persuasive essay and recognize logical and emotional appeals. • use the writing process to write a persuasive essay. • distinguish between fact and opinion and support an opinion statement with reasons and evidence. • identify sentence and sentence fragments. • identify and use different types of sentences according to purpose and structure. • identify and use verbs, verb phrases, and compound predicates. • identify and use simple, complete, and compound subjects. • identify and use different types of nouns and pronouns. • identify parts of speech (nouns, pronouns, adjectives, adverbs, prepositions, conjunctions, and interjections) in sentences. • identify adjectives and the words they modify. • classify and use different types of verbs (action and linking verbs / transitive and intransitive verbs). • identify adverbs and the words they modify. • identify direct and indirect objects. • identify predicate adjectives and predicate nominatives. • identify and use prepositional, adjective, adverb, participial, gerund, infinitive, and appositive phrases. • identify independent and subordinate clauses in sentences. • identify adjective, adverb, and noun clauses in sentences. • identify and use coordinating, subordinating, and correlative conjunctions. • identify nouns and pronouns by number (singular / plural). • identify and choose verb forms that agree in number with subjects. • identify and choose pronoun forms that agree in number and gender with antecedents. • identify and use regular / irregular verbs and active / passive verb forms. • use the tenses consistently. • identify and use nominative, objective, and possessive cases of personal pronouns. • use context clues to figure out the meaning of new vocabulary words. • use word structure (prefixes, roots, suffixes) to figure out the meaning of new vocabulary words. • use sound clues to figure out the meaning of new vocabulary words. • use dictionary definitions to figure out the meaning of new vocabulary words. • identify synonyms and antonyms for new vocabulary words. • recognize the multiple meanings of new vocabulary words. • use conceptual maps to determine the meanings of new vocabulary words. • use the new vocabulary words in meaningful sentences.

Subject	Learning Objectives
Math	<ul style="list-style-type: none"> • evaluate exponential functions and compare with different functions. • organize data. • determine the experimental and the theoretical probability of an event. • find the sine, cosine, and tangent of an acute angle and use trigonometric ratios to find angle measures in right triangles. • solve problems involving angles of elevation and angles of depression. • use the Law of Sines and the Law of Cosines to solve triangles. • identify and use parent functions from graphs and equations. • solve problems involving linear transformations and linear models. • identify and transform quadratic functions. • solve quadratic equations and write quadratic equations in vertex form. • define and use imaginary and complex numbers. • identify, evaluate and transform polynomial functions. • use long division and synthetic division to divide polynomials.
Biology	<ul style="list-style-type: none"> • know what are Enzymes, their functions and the factors that affect their activities. • know the photosynthesis process in details. • know the cellular respiration process in details. • know the fermentation process in details. • know the structures of most macromolecules in organisms. • know the meiosis division and its role in sexual reproduction. • know only certain cells in a multicellular organism undergo meiosis. • know new combinations of alleles may be generated in a zygote through fertilization process. • know how to predict possible combinations of alleles in a zygote from the genetic makeup of the parents. • know the difference between phenotype and genotype. • know the genetic basis for Mendel's laws of segregation and independent assortment.
Physics	<ul style="list-style-type: none"> • know how to determine the position of an object. • know how to solve problems involving distance, time, average speed and acceleration. • know the difference between speed and velocity. • know a force has both direction and magnitude. • know the types of forces and their effects on the body. • know how to calculate the net force acting on an object. • know the relation between mass, force and the rate of change in motion. • know the role of gravity in the universe. • know Newton's laws and solve problems of motion. • know what is Energy the types of energy and the laws of conservation of energy and momentum. • know how to solve problems involving conservation of energy.

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Chemistry	<ul style="list-style-type: none"> • know the history and discovery of atomic structure. • know the periodicity in periodic table, the position of elements and the number of valence electrons. • know how to use the periodic table to identify metals, semimetals, nonmetals, different groups and different trends. • know the development of the quantum theory of atomic structure and the importance of the Bohr model of the atom. • know the absorption and emission of spectrum. • know the types of chemical bonding and intermolecular forces and their effect on the behavior of matter. • know how to draw Lewis dot structures. • know how to predict the geometric shape of simple molecules and their polarity. • know how electronegativity relates to bond formation.
Social Studies	<ul style="list-style-type: none"> • learn how to analyze historical information. • learn how to evaluate sources. • learn how to identify stereotypes and bias in a passage. • learn some Greek and Latin roots found in many English words. • learn how to use the context clue to understand some new words in a passage. • learn about the development of civilizations in the Americas. • learn how the geography of the areas of Mesoamerica and the Andes affected the way of the life of the Maya, the Aztecs, and the Incas. • know that these ancient civilizations made interesting advancements in science. • learn how the geography of Europe affected growth and trade and how Christian religion spread throughout northern Europe during this time. • learn how the feudal system developed and how it shaped the entire society and culture of the people. • learn Europe in the Late Middle Ages. • learn about the conflict between religious and political leaders and how their conflict shaped society and culture. • learn about important events that changed medieval society and opened up the way towards the development of modern life. • learn about how Italy's geographical location made the Renaissance a worldwide event with effects far beyond Italy. • learn how the scholars, artists, and scientists built on classical Greek and Roman roots to make new advances in society and culture and the arts. • learn about how new way of looking at science was developed, as well as, how the Scientific Revolution led to profound changes in society and culture.

Subject	Learning Objectives
<p style="text-align: center;">French</p>	<ul style="list-style-type: none"> • le present, le futur • les objets de la classe • expression (il y a) • v. avoir, v. tenir, v. servir, v. suffire, v. être, v. vouloir, v. s’asseoir, v. plaire, v. envoyer, v. manquer, v. appuyer, v. rester • vocabulaires d’environnement • la protection de l’environnement • animaux • les états d’âme • raconter une expérience • demander et dire son état d’âme • faire une interview • l’accorde du participe passé • l’imparfait • la forme négative • les objets technologiques • les formes • les matériaux et les qualités • décrire un objet • demander et donner des informations • demander et donner des instructions • comparer deux objets • les pronoms relatifs (dont & quoi) • le pronom (en) • le comparatif de qualité • l’infinitif • vocabulaires d’aliments • la table et les repas • les quantités • commander et conseiller un repas • donner une recette de cuisine • comparer deux quantités • l’article partitif • les verbes impersonnels • les programmes de télé • le feuilleton • les matières scolaires • donner son avis • ondiquer la possession • faire des comparaisons • le comparatif d’action • le superlatif relatif • l’adjectif indéfini (tout) • les pronoms possessifs
<p style="text-align: center;">Computer Science</p>	<ul style="list-style-type: none"> • understand the uses of VB.net. • learn importance of programming language. • learn about how to create new project. • understand the concepts of programming languages. • understand the importance of – looping structures. • understand the importance of Web Enabled. • learn how to use EAI -Web Services and Semantic. • understand Service Composition. • understand Industrial Case of Semantic Web Enabled • understand the importance of photo editing. • learn how to use Adobe Photoshop. • create photos. • deal with images. • use gradient tools and smudge tools. • understand the uses Relational Database Model. • learn importance of SQL Database. • learn about Aggregate Functions with Subqueries. • understand the Nested Subqueries.

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<p style="text-align: center;">Arabic Language</p>	<ul style="list-style-type: none"> • يعرف مفهوم إبداء الرأي. • يستخدم الطالب شكل شجرة الذاكرة لتلخيص النص وتسميع الأفكار المفيدة . • يتعرف على خطورة المخدرات . • يتعرف على أوزان وصيغ اسم الآلة والتفضيل وصيغ المبالغة . • يتقن استخدام أسلوب التعجب. • يتعرف على تمييز العدد. • يتعرف على أنواع البذل. • يتعرف طرق فصل ووصل بعض الحروف والكلمات. • يتعلم الحروف التي تحذف والتي تزداد كتابةً ونطقاً. • يقدر أهمية البحث العلمي. • يتعرف على الضوابط الشرعية للمعلومات. • يعرف شعائر الحج. • يتعلم بعض أشكال الرسوم الإيضاحية : رسم التصنيف – شجرة الذاكرة – هيكل السمكة. • يتعلم كتابة اللوحات الإرشادية. • يتعلم كتابة محضر الاجتماعات .
<p style="text-align: center;">Islamic Studies</p>	<ul style="list-style-type: none"> • التعرف على تفسير سورة مريم . • التعرف على حكم الجلوس في الطرقات. • التعرف على خطورة الكبر. • تعلم إضافة النعم إلى الله تعالى . • إدراك أهمية التحاكم إلى شرع الله . • إدراك خطورة الاستهزاء بالدين. • تعلم أحكام الصيد والتعامل مع الحيوانات . • تعلم أحكام اللباس والزينة وسنن الفطرة .
<p style="text-align: center;">Saudi Social</p>	<ul style="list-style-type: none"> • التعرف على جغرافية المملكة العربية السعودية . • التعرف على موارد المملكة العربية السعودية. • التعرف على أنواع الإنجاز الذاتي والاقتصادي . • التعرف على مفهوم التنمية ومجالاتها. • التعرف على بعض المشكلات الاقتصادية .

The End