

## المادة الدراسية للاختبارات Study list

نهاية الفصل الدراسي الأول 2026/2025  
Semester 1- End-of-Term

Grade 11 الصف الحادي عشر

الصفحات في الكتاب Pages in the book	الوحدات/الدروس Lessons /Units	المادة Subject
All the resources including Lesson Presentations, assessments & worksheets on the LMS	<ol style="list-style-type: none"> <li>Declaring and initializing variables of different data types</li> <li>Comments</li> <li>Concatenation</li> <li>Operator precedence</li> <li>Using print and println</li> <li>Math and shortcut Operators</li> <li>Math Methods</li> <li>String Methods</li> <li>Boolean Operators</li> <li>Logical Operators</li> <li>If – else if -else and nested if statements</li> <li>While Loops</li> <li>Nested While Loops</li> <li>For Loops</li> <li>Nested For Loops</li> </ol>	<b>Computer Science – Tech Stream</b>
All the resources including Lesson Presentations, assessments & worksheets on the LMS	<p><b>Artificial Intelligence and Machine Learning:</b></p> <ol style="list-style-type: none"> <li>AI Fact and Fiction</li> <li>Big Data and Machine Learning"</li> </ol> <p><b>Big Data with Python and Machine Learning:</b></p> <ol style="list-style-type: none"> <li>Work with Data Files (CSV/XLSX) <ol style="list-style-type: none"> <li>Use Python libraries (e.g., pandas, openpyxl) to import and explore datasets in .csv and .xlsx formats.</li> <li>Identify common issues in raw data such as missing values, inconsistent formatting, and outliers.</li> </ol> </li> <li>Clean and Prepare Data for Analysis <ol style="list-style-type: none"> <li>Apply techniques to clean datasets using pandas, including handling missing data, filtering irrelevant records, and formatting columns.</li> </ol> </li> <li>Visualize Data</li> </ol>	<b>Computer Science – Engineering Stream</b>



	<p>4.3.1 Create data visualizations using matplotlib and seaborn to reveal patterns, trends, and anomalies.</p> <p>4.3.2 Interpret plots such as histograms, scatter plots, boxplots, and line graphs to understand the dataset’s characteristics.</p> <p>4.4 Apply Supervised Machine Learning Models</p> <p>4.4.1 Explain the basics of supervised learning and distinguish between classification and regression tasks.</p> <p>4.4.2 Use scikit-learn to implement simple supervised learning models such as Linear Regression.</p> <p><b>Introduction to Entrepreneurship &amp; project management:</b></p> <p>1.1 Defining Entrepreneurship &amp; Its Importance</p> <p>1.2 Identifying Entrepreneurial Traits &amp; Mindset</p> <p>2.1 Generating Ideas &amp; Applying Design Thinking</p> <p>3.1 Conducting Market Research &amp; Feasibility Analysis</p> <p>4.1 Developing Business Models (BMC)</p> <p>5.1 Understanding Industry &amp; Competitor Analysis</p> <p>6.1 Writing a Business Plan</p> <p>7.1 Ethics, legal setup, founder agreements</p> <p>8.1 Financial viability assessments (financial statements analyzing)</p> <p>9.1 Building &amp; managing the founding team</p>	
<p>All the resources including Lesson Presentations, assessments &amp; worksheets.</p>	<p><b>Topic 2 Motion in One Dimension 31</b></p> <p>2.1 Displacement, Velocity, and Acceleration 31</p> <p>2.2 Motion Diagrams 41</p> <p>2.3 One-Dimensional Motion with Constant Acceleration 42</p> <p>2.4 Freely Falling Objects 48</p> <p><b>Topic 3 Motion in two Dimensions 59</b></p> <p>3.1 Displacement, Velocity, and Acceleration in Two Dimensions 59</p> <p>3.2 Two-Dimensional Motion 61</p> <p><b>Topic 4 Newton’s Laws of Motion 80</b></p>	<p><b>Physics</b></p>





	<p>4.1 Forces 80</p> <p>4.2 The Laws of Motion 82</p> <p>4.3 The Normal and Kinetic Friction Forces 92</p> <p>4.4 Static Friction Forces 96</p> <p>4.5 Tension Forces 98</p> <p>4.6 Applications of Newton’s law</p> <p>4.7 Two-Body Problems 106</p> <p><b>Topic 5 Work, Energy, and Power 120</b></p> <p>3.1 Translational Kinetic Energy 121</p> <p>3.2 Work 124</p> <p>3.3 Potential Energy 126</p> <p>3.4 Conservation of Energy 130</p> <p>3.5 Power 135</p>	
<p>Resources on LMS/PPT/Past papers and practice tests. OneNote files/Practice sheets.</p>	<ol style="list-style-type: none"> <li>1. Atomic structure and representations of atoms</li> <li>2. Electron configuration</li> <li>3. Valence electrons and ionic compounds</li> <li>4. Periodic trends (Ionization energy only/coulombs law only)</li> <li>5. Wave and energy equation</li> <li>6. Photoelectron spectroscopy and photoelectric effect</li> <li>7. Bonding, intramolecular forces, and potential energy diagrams</li> <li>8. Types of structure (ionic, covalent, metallic – properties and identification)</li> </ol>	<p><b>Chemistry</b></p>
<p>PPTs AP Classroom Booklets OneNote</p>	<p><b>Unit 1 Chemistry of Life</b></p> <p>1.1 Structure of Water and Hydrogen Bonding</p> <p>1.2 Elements of Life</p> <p>1.3 Introduction to Biological Macromolecules</p>	<p><b>Biology</b></p>



Quizzes and unit tests Worksheets	1.4 Properties of Biological Macromolecules 1.5 Structure and Function of Biological Macromolecules 1.6 Nucleic Acids  <b>Unit 2 Cell Structure and Function</b> 2.1 Cell Structure: Subcellular Components 2.2 Cell Structure and Function 2.3 Cell Size 2.4 Plasma Membranes 2.5 Membrane Permeability 2.6 Membrane Transport 2.7 Facilitated Diffusion 2.8 Tonicity and Osmoregulation 2.9 Mechanisms of Transport 2.10 Cell Compartmentalization				
				اللغة العربية	
	<b>ملحوظة</b>	<b>صفحات الكتاب</b>	<b>الموضوع</b>		<b>المهارة</b>
		ص 130	موقف الإسلام من الشعر		<b>أولاً: الاستماع</b>
	<b>حفظ</b>	ص 164	حفظ قصيدة في مدح زين العابدين الأبيات 1:7		<b>ثانياً: الحفظ</b>
	إلى خصائص الشعر	ص -135 136	الأدب في العصر الأموي	<b>رابعاً: القضايا الأدبية</b>	
		ص 109 إلى 113 إلى 163 ص	1. خطبة النبي صلى الله عليه وسلم في الأنصار	<b>خامساً: القراءة</b>	

		169	2. في مدح زين العابدين ( النص الداخلي)	
		ص 91 97 :	1- الأعراس البلاغية للأمر والنهي. 2- الأعراس البلاغية للاستفهام.	<b>سادساً: البلاغة</b>
		ص 126	1- الأفعال التي تنصب مفعولين أصلهما المبتدأ والخبر. 2- الأفعال التي تنصب مفعولين ليس أصلهما المبتدأ والخبر.	<b>سابعاً: الكلمة والجملة ( القواعد)</b>
		ص 153	كتابة النص التفسيري	<b>ثامناً: الكتابة</b>
97-152	<p>1- المحافظة على الحقوق 2- فضل التفقه في الدين ( شرح وحفظ الحديث) 3- البدعة ( أسباب ظهورها وخطورتها) 4- الربا والميسر 5- المكانة الدينية لفلسطين والقدس والمسجد الأقصى</p>			التربية الإسلامية
Precalculus Book and ALEKS and AP classroom	<p><b>Chapter 2,</b> 2.1 Power and Radical Functions 2.2 Polynomial Function 2.3 The Remainder and Factor Theorems 2.4 Zeros of Polynomial Functions 2.5 Rational Functions 2.6 Nonlinear Inequalities <b>Chapter 3,</b> 3.1 Exponential Functions 3.2 Logarithmic Functions 3.3 Properties of Logarithms 3.4 Exponential and Logarithmic Functions 3.5 Modeling with Nonlinear Regression</p>			Mathematics



	<p><b>Chapter 4,</b></p> <p>4.1 Right Angles Triangles</p> <p>4.2 Degrees and Radians</p> <p>4.3 Trigonometric Functions on the Unit Circle"</p> <p>4.4 Graphing Sine and Cosine Functions</p> <p>4.5 Graphing Other Trigonometric Functions</p>	
<p>Unit 4 – Rethinking Transport P.75 - 98</p>	<p>Unit 4:</p> <ul style="list-style-type: none"> <li>- Vocabulary</li> <li>- <u>Language Skill</u> = Using Appositives Using Initial Phrases</li> <li>- <u>Writing</u> = Compare and Contrast Essay Problem and Solution Essay</li> </ul>	<p><b>English</b></p>

مع تمنياتنا لأبنائنا الطلبة بالتوفيق والنجاح