Study list **المادة الدراسية للاختبارات**

الصف التاسع Grade 9

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

الصفحات في الكتاب Pages in the book	الوحدات/الدروس Units/ Lessons	المادة Subject	
All the resources including Lesson Presentations, assessments & worksheets on the LMS	**STEM based Formula App - BMI Calculator** • Adding components • Applying math blocks • Adding behavior to components • Displaying the calculated values • Working with multiple screens **Working with Sensors:** • Accelerometer Sensor • BarcodeScanner • Barometer • GyroscopeSensor • Orientation and Pedometer **PhotoBooth App:** • Photoboth App for Slideshow of multi layered pictures **PaintPot App:** • Designing the Components • Creating the Color Buttons • Using Arrangements for Better Layouts • Adding the Canvas • Arranging the Bottom Buttons and the Camera Component	**Theory** **النظري**	**Computer Science**
	STEM based Formula App - BMI Calculator • Adding components • Applying math blocks • Adding behavior to components	**Practical** **العملي**	

All the resources including Lesson Presentations, assessments & worksheets on the LMS	• Displaying the calculated values • Working with multiple screens **Working with Sensors:** • Accelerometer Sensor • BarcodeScanner • Barometer • GyroscopeSensor • Orientation and Pedometer **PhotoBooth App:** • Photoboth App for Slideshow of multi layered pictures **PaintPot App:** • Designing the Components • Creating the Color Buttons • Using Arrangements for Better Layouts • Adding the Canvas • Arranging the Bottom Buttons and the Camera Component		
Pasco STEM Textbook Pages 216-235 **Review questions page 236** **Questions** 1-70	Chapter 9 9.1 Work and mechanical energy • Calculate work. • Define work done and know the unit for work and energy. • Calculate work done from a force vs distance graph. • Can calculate mechanical energy, kinetic energy, and gravitational potential energy. 9.2 Conservation of energy • State the law of conservation of energy and use it to justify arguments. • Calculate the conversion between kinetic and potential energy for rollercoaster systems. • Calculate the velocity and height of an object in a closed system. 9.3 Energy transformations and efficiency	**STEM**	

	• Calculate the efficiency of devices and explain why efficiency cannot be over 100%. • Describe causes of efficiency loss in machines and how to remedy them. 9.4 Power • Calculate power given work and time and evaluate the factors affecting it.	
Pasco STEM Textbook Pages 242-257 **Review questions page 258** **Questions 1-14, 18-21, 31-33, 40-44**	Chapter 10 10.1 Simple machines • Identify/calculate input force and output force, input distance and output distance on various simple machines. • Define mechanical advantage and link to purpose of simple machines. • Calculate mechanical advantage and ideal mechanical advantage. • Recognize the mechanical advantage of pulleys by counting ropes. 10.2 Torque • Calculate torque given an applied force and distance from a pivot • Recognize positive and negative torques. • Define rotational equilibrium and make calculations based on this. 10.3 The lever • Calculate mechanical advantage of a lever from input and output distances. • Draw diagrams for lever classes and identify them in real world cases. 10.4 Rotating machines • Calculate mechanical advantage of wheel-and-axle. • Calculate the gear ratio. • State the purpose of the idler gear. • Label the direction of rotation of each gear in a gear system.	
Pasco STEM Textbook Pages 264-278 **Review questions page 279** **Questions 1-20, 23-56**	11.1 • Define electric current and know the unit and symbol of current. • Define voltage and know the unit and symbol of voltage.	

	• Recall electrical component symbols. • Identify short circuits and evaluate circuits that contain them. • Identify open and closed circuits. 11.2 • Define resistance and know the unit and symbol of resistance. • Identify conductors and insulators and compare uses. • Solve problems using Ohm's Law. • Analyze voltage-current graphs for ohmic and nonohmic components. 11.3 • Calculate equivalent or total resistance of series and parallel circuits. • Draw basic series or parallel circuits using component symbols. 11.4 • Calculate unknown current and voltage for resistors in series and parallel circuits.	
Pasco STEM Textbook Pages 284-290 **Review questions page 295** **Questions 1, 3, 12-22, 28-35**	12.1 • Calculate the power consumed by an electrical device knowing data about the voltage, current, and/or resistance. • Explain the difference in bulb brightness when in series or parallel circuits by calculating power. 12.2 • State the total voltage of cells placed in series vs parallel.	
ص 100-101 ص 132 ص127 ص151 ص100 ص119	الحفظ: قصيدة "زهرة الصحراء" حفظ المقطعين الأول والثاني الاستماع: وسائل التواصل الاجتماعي الإملاء: 1. الهمزة المتطرفة. 2. الهمزة المتوسطة. القراءة: 1. زهرة الصحراء. 2. اللغة العربية والعلوم الحديثة.	**اللغة العربية**

	البلاغة: المؤثرات الصوتية والمعنوية. الكلمة والجملة: 1. النعت وأنواعه. 2. العطف. 3. التوكيد اللفظي والمعنوي. الكتابة: كتابة مقال نقاشي	ص48 ص89 ص108 ص147 ص130
التربية الاسلامية	1- منهج عباد الرحمن القويم 2- حفظ الله تعالى لعباده وتأييده لهم 3- نبي الله هود عليه السلام. 4- مصارف الزكاة 5- أحداث يوم تبوك . 6- التفاؤل وحسن الظن بالله.	**112-162**
Mathematics	Module 4, 4-1 Graphing Linear Functions 4-2 Rate of Change and Slope 4-3 Slope-Intercept Form 4-4 Transformations of Linear Functions 4-5 Arithmetic Sequences 4-6 Piecewise and Step Functions 4-7 Absolute Value Functions Module 5, 5-1 Writing Equations in Slope-Intercept Form 5-2 Writing Equations in Standard and Point-Slope Forms 5-6 Inverses of Linear Functions Module 6, 6-1 Solving One-Step Inequalities 6-2 Solving Multi-Step Inequalities 6-3 Solving Compound Inequalities 6-4 Solving Absolute Value Inequalities 6-5 Graphing Inequalities in Two Variables	**Integrated revel Math Book 1 and ALEKS**

الدراسات الاجتماعية	- **الوحدة الثانية: التاريخ - الدرس الثاني- التطور الاقتصادي والاجتماعي 1868-1971.** - **الوحدة الثالثة: الموطنة -الديمقراطية ومبادئ الديمقراطية.**	الأجوبة النموذجية للأنشطة والتدريبات لكل وحدة
English	Grammar 1. Understanding the main Idea 2. Identifying details 3. Making inferences 4. Present Perfect Tense Vocabulary - 10 words from the list of words on page 60 of the pathways book Writing - Opinion Essay ○ Topics: ▪ Going global ▪ Social media ▪ Impact of technology on communication Reading - Past paper practice - Focus: using evidence to support answers - Topic sentence - MCQ question - True, False, Not Given practice Listening - Past paper practice ○ Focus: video question	Pathways Unit 3

	○ Making inferences with paraphrased words	

مع تمنياتنا لأبنائنا الطلبة بالتوفيق والنجاح