Academic Year	2026-2025
العام الدراسي	
Term	2
الفصل	
Subject	physics
المادة	الفيزياء
Grade	9
الصف	
Stream	Advanced
المسار	المتقدم
Number of MCQ عدد الأسئلة الموضوعية	
Marks of MCQ درجة الأسئلة الموضوعية	60
Number of FRQ عدد الأسئلة المقالية	4
Marks per FRQ الدرجات للأسئلة المقالية	40
Type of All Questions نوع كافة الأسئلة	الأسئلة الموضوعية MCQ/ الأسئلة المقالية FRQ/
Maximum Overall Grade الدرجة القصوى الممكنة	100
Exam Duration - مدة الامتحان	60min
Mode of Implementation- طريقة التطبيق	Paper-Based
Calculator	Allowed
الآلة الحاسبة	مسموحة

	Question* السؤال*	Learning Outcome/Performance Criteria** نتائج التعلم/ معايير الأداء**	Reference(s) in the Student Book (ARABIC Version) المرجع في كتاب الطالب (النسخة العربية)	
			Example/Exercise مثال/تمرين	Page الصفحة
MCQ - الأسئلة الموضوعية	1	Define force and identify the cause of all accelerations	Student Book	82
	2	Classify forces as either contact forces or field forces	Student Book	83
	3	Combine forces to find the net force acting on an object	Figure 4	85
	4	Demonstrate by experiments that acceleration of an object is directly proportional to the force applied and inversely proportional to the mass of the object	Student Book	
	5	Find the mass of an object from a force-acceleration graph	Figure 6	87
	6	Apply Newton's Second Law to solve numerical problems	PRACTICE Problems 6.7	88
	7	Define equilibrium	Student Book	91
	8	Describe the apparent weight for an object accelerating vertically upward or downward (starts from rest, reaches a constant speed, then comes to a stop)	Figure 11	94
	9	Calculate the weight of an object	Student Book	92
	10	Calculate the Tension force on objects	Figure 17	101
	11	State and explain Newton's third law of motion	Figure 15	99
	12	Explain that a net force applied to an object causes the object to accelerate	Figure 7	88
	13	Define periodic motion and quantities associated with periodic motion like period and amplitude	Student Book	109
	14	Determine what affects the period of a simple pendulum	Student Book	113
	15	Apply Hooke's law to calculate the force exerted by a spring, the spring constant, or the distance by which a spring is stretched or compressed.	PRACTICE Problems1	112
FRQ - الأسئلة المقالية	16	Apply Newton's Second Law to solve numerical problems State the conditions for an object to be in equilibrium	EXAMPLE Problem 1	89
	17	Find the mass of an object from a force-acceleration graph	Figure 6	87
		Describe the apparent weight for an object accelerating vertically upward or downward (starts from rest, reaches a constant speed, then comes to a stop)	EXAMPLE Problem 2	93
	18	Apply Hooke's law to calculate the force exerted by a spring, the spring constant, or the distance by which a spring is stretched or compressed.	Figure1	109
		calculate the elastic potential energy stored in a spring or any other unknown quantities.	EXAMPLE Problem 1	112
	19	Clarify the meaning of the important terms and concepts contained in Module4 and 13	Terms and Concepts in Textbook	114:81

*	Questions might appear in a different order in the actual exam, or on the exam paper
*	قد تظهر الأسئلة بترتيب مختلف في الامتحان الفعلي، أو على ورقة الامتحان
**	As it appears in the textbook, LMS, and (Main_IP).
**	كما وردت في كتاب الطالب وLMS والخطة الفصلية .