

Academic Year العام الدراسي	2025-2026
Term/الفصل	T1

Subject الموضوع	Science (Inspire)
Grade الصف	9
Stream. المسار	General العام
Number Of MCQ عدد الأسئلة الموضوعية	20
Markes of MCQ درجة الأسئلة الموضوعية	2-4
Number of FRQ عدد الأسئلة المقالية	4
Marks Per FRQ الدرجات للأسئلة المقالية	9-11
Type of All Questions نوع كافة الأسئلة	الأسئلة / MCQ الموضوعية الأسئلة المقالية / FRQ
Maximum Overall Grade الدرجة القصوى الممكنة	100
Exam Duration مدة الامتحان	150 min
Mode of Implementation طريقة التطبيق	Paper-Based & Swift Assess.
Calculator الآلة الحاسبة	Allowed مسموحة

Type	Question*	Learning Outcome/Performance Criteria** معايير الأداء / ناتج التعلم	المرجع في كتاب الطالب (النسخة الانجليزية) Reference(s) in the Student Book (English Version)	
النوع	السؤال*		Example/Exercise. مثال/تمرين	صفحة. Page
الأسئلة الموضوعية - MCQ	1	-Differentiate between scientific theory and scientific law -Explain why a scientific theory cannot become a scientific law	Student Textbook	7-8
	2	Express the derived units for common quantities (like velocity, acceleration, force, pressure, volume, density) in terms of their SI base units	Student Textbook	9
	3	Use dimensional analysis to validate equations and to choose the appropriate conversion factor when converting units	Student Textbook Example problem1	11 12
	4	-Identify the significant digits in a given number -Use appropriate significant figures to record answers from a mathematical operation, with the correct number of digits	Student Textbook Check your progress (8)	11 12
	5	Compare and contrast precision and accuracy with examples	Student Textbook	14
	6	Define and identify independent and dependent variables for a given data set	Student Textbook	17-18
	7	Represent data in graphical form, draw the best fit line, and identify from the shape of the graph if the relationship between the variables is linear	Student Textbook	17-18
	8	Identify the mathematical equation for linear relations	Student Textbook	18-19
	9	Predict the unknown values in a linear relation using the slope and the intercept with the vertical axis	Check your progress (19,20,22)	22
	10	Differentiate between distance travelled and displacement	Student Textbook	32-33
	11	Classify physical quantities into vector and scalar quantities (distance, mass, displacement, speed, velocity, acceleration, force, work, energy, pressure	Student Textbook	33
	12	Plot a position-time graph given position-time value.	Student Textbook Practice problems (10) Example problem1	37-38 39 40
	13	Convert a particle model to a position time graph and vice-versa	Check your progress	41
	14	Interpret a position-time graph that represents the motion of multiple objects	Example problem2	40
	15	Apply the equation of motion, ($x_f = v_{avg} t + x_i$) or ($x_f - x_i = v_{avg} t$), in numerical problems to calculate the position or other physical quantities	Student Textbook Example problem	46 47
	16	Recognize uniform or non-uniform motion from a motion diagram or a particle model.	Student Textbook	53,58
	17	Describe the motion of an object if its velocity and acceleration are either in the same direction or opposite directions, hence state if an object is slowing down or speeding up	Student Textbook	56
	18	Explain how an object can accelerate while moving at a constant speed	Student Textbook Check your progress	62
	19	Apply the equation of motion relating the final velocity of an object to its initial velocity, uniform acceleration, and time ($v_f = v_i + at$).	Practice problems (16, 17,18)	65
	20	Define free fall and free fall acceleration	Student Textbook	71
	21	List the common steps of scientific methods used in investigations Classify common quantities into base and derived quantities with their SI units	Student Textbook	4 9
	22	-Interpret the motion represented by motion diagrams and particle models. -Determine displacement using vector addition or subtraction in one dimension -Define and calculate the average speed using a suitable mathematical representation -Define and calculate the average velocity using a suitable mathematical representation	Student Textbook Example problem 3 Practice problems (26,29)	32-35 36 45
	23	-Analyze a position-time graph to describe an object’s motion -Calculate average velocity (magnitude and direction) from the slope of a position-time graph during a certain time interval and instantaneous velocity from the slope of a position-time graph at a certain instant	Student Textbook Example Problem 1 Practice problems (10, 12) Check your progress (25)	37-39 41
	24	-Interpret the velocity-time graph for a single or multiple objects in motion -Find the slope and y-intercept of a velocity-time graph to describe the motion of an object	Student Textbook Example problem 1 Practice problems (1,2,3,4)	57 60
	*	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.(Main_IP)		