

Academic Year السنة الدراسية	2023/2024
Term الفصل	2
Subject المادة	Science / Inspire العلوم / إلهام
Grade الصف	8
Stream المسار	General العام
Number of MCQ عدد الأسئلة الموضوعية	15
Marks of MCQ درجة الأسئلة الموضوعية	60
Number of FRQ عدد الأسئلة المقالية	5
Marks per FRQ الدرجات للأسئلة المقالية	40
Type of All Questions نوع كافة الأسئلة	Paper Part / أسئلة مقالية / MCQs / أسئلة موضوعية
Maximum Overall Grade الدرجة القصوى الممكنة	100
Exam Duration - مدة الامتحان	150 minutes
Mode of Implementation - طريقة التطبيق	SwiftAssess & Paper-Based
Calculator الآلة الحاسبة	Allowed مسموحة

Question* السؤال*	Learning Outcome/Performance Criteria** نتائج التعلم / معايير الأداء**	Reference(s) in the Student Book ( English Version & Arabic Version) المراجع في كتاب الطالب (النسخة الإنجليزية والنسخة العربية)		
		Example/Exercise مثال / تمرين	Page الصفحة	
الأسئلة المقالية - Paper part	1	1. Assign magnetic poles according to repulsion and attraction forces and explain why any piece of a magnet will be a smaller magnet with two poles 2. Assign magnetic strength and label it on magnetic fields 3. using a compass needle assign the direction of magnetic field	Textbook, figures, 3D	177, 178, 180, 181, 184
	2	1. Explain how matter and charged particles interact, and define repulsion, attraction, electrical forces, and electric field 2. explain what factors affect an electric current and draw a simple electrical circuit	Textbook, figures, encounter the phenomena, 3D, lab	199, 200, 203, &, 226, 227, 228
	3	Differentiate between types of waves (mechanical and electromagnetic) and give examples on them	Textbook, figures	12, 13, 14, 15 & 70, 72
	4	1. Describe how waves interact with matter (Reflection, Absorption, Transmission, Diffraction) and draw a model to represent the interaction 2. Explain how the human eye sees the colors of objects and how color filters change the color of objects	textbook, figures, tables, review, 3D	42, 43, 50, 52, 77 &, 136, 137
	5	Compare between concave and convex lens and draw the pathway of the light rays passing through a lens	textbook, figures, tables, review	116, 118, 120
الأسئلة الموضوعية - MCQs	6	Identify the magnetic domains in different types of material (nonmagnetic and magnetic) Compare between temporary and permanent magnets	textbook, figures, 3D	191, 192
	7	Explain how electric charges interact and list the factors that electric field strength depends on	textbook, figures	204, 207
	8	Illustrate how electric particles flow, differentiate closed circuits from open circuits, and list the factors that affect an electrical current	textbook, figures	224, 225
	9	Determine how to make an electromagnet, and compare electric motors and electric generators	textbook, figures	243, 246, 248
	10	Explain how can magnets produce an electrical current, differentiate between the positive voltage and negative voltage produced from the motion of coil in a magnetic field	textbook, figures, investigations	251, 253, 255, 256
	11	Find and calculate the wave characteristics (wavelength, frequency, and amplitude)	textbook, figures, review	26, 27, 32
	12	Define Amplitude, Intensity, loudness, and pitch of a wave, and relate to real-life examples	textbook, tables, figures	22, 23, 30
	13	Calculate the speed of sound in different materials	textbook, 3D, table	47, 53
	14	Explain how sound wave interact with matter, and relate to real-life examples	Textbook, table, figures	38, 42, 43
	15	Recognize how light interacts with matter and Differentiate between transparent, translucent, and opaque	textbook, figures	79, 80
	16	Explain how humans see things around them	Textbook, figures	85, 90
	17	State the law of reflection and assign the angles of incidence and of reflection on a smooth flat surface or on rough surface	Textbook, figures, 3D	92, 93, 100
	18	Conclude the type of image that will form from concave or convex mirrors depend on the object's position according to the mirror's focal point	Textbook, figures, 3D	96, 97
	19	Explain how does a lens affects the size of an image, and relate to it real-life examples, define index of refraction and its value in different mediums	textbook, figures, 3D	105, 112, 113
	20	Illustrate the function of human eye and its main parts and their importance in how it can enable a person to see	textbook, figures, 3D	117, 121
	* Questions might appear in a different order in the actual exam			
	* قد تظهر الأسئلة بترتيب مختلف في الامتحان الفعلي			
	** As it appears in the two textbooks UAE Edition Grade 8 Inspire Student Edition U1 & U2), LMS, and (Main, IP).			
	** كما وردت في كتاب الطالب (النسخة الإنجليزية والنسخة العربية الموحدة 1 & 2 طبعه دولة الإمارات العربية المتحدة) و LMS والنسخة الرئيسية.			