

شكراً لتحميلك هذا الملف من موقع المناهج الإماراتية



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نموذج الهيكل الوزاري نخبة

[موقع المناهج](#) ← [المناهج الإماراتية](#) ← [الصف الثامن](#) ← [علوم](#) ← [الفصل الأول](#) ← [الملف](#)

التواصل الاجتماعي بحسب الصف الثامن



روابط مواد الصف الثامن على تلغرام

[الرياضيات](#)

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[اللغة العربية](#)

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المزيد من الملفات بحسب الصف الثامن والمادة علوم في الفصل الأول

[ملخص وشرح الدرس الأول Lesson 1 travels light how مع امتحانات السنوات السابقة](#)

1

[ملخص وشرح الدرس الأول Properties Wave خصائص الموجة](#)

2

[أسئلة الامتحان النهائي بريدج](#)

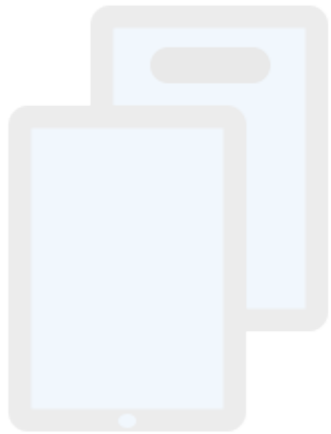
3

[حل أسئلة الامتحان النهائي - انسباير](#)

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[حل مراجعة الدروس المطلوبة وفق الهيكل الوزاري انسباير](#)

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ل هذا الملف من
لمناهج الإماراتية

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Academic Year	2022/2023
السنة الدراسية	
Term	1
الفصل	
Subject	Science
المادة	
Grade	8
الصف	
Stream	Elite
المنهج	
Number of Main Questions	20
عدد الأسئلة الرئيسية	
Marks per Main Question	5
الدرجات لكل سؤال أساسي	
Number of Bonus Questions	5
عدد الأسئلة الإضافية	
Marks per Bonus Question	4
الدرجات لكل سؤال إضافي	
Type of All Questions	MCQ
نوع كافة الأسئلة	اختيار من متعدد
Maximum Overall Grade*	100
الدرجة القصوى الممكنة*	
Exam Duration	120 minutes
مدة الامتحان	
Mode of Implementation	SwiftAccess
طريقة التطبيق	
Calculator	Allowed
آلة الحاسبة	

Question**	Learning Outcome***	Reference(s) in the Student Book /Teacher book/ Inspire online assessment bank(English Version)	
		المراجع في كتاب الطالب (إتسنة العربية / الإحتواء)	Page
1	Relate how energy carried by waves corresponds to a wave's amplitude. (Explore mechanical wave properties by modeling mechanical waves using mathematical representations and identifying patterns in data gathered by observing a variety of mechanical waves.)	Q 1A& Q1B	U2M11: Wave Properties, Lesson Check Q8
2	Identify the properties of a wave including wavelength and frequency. (Explore mechanical wave properties by modeling mechanical waves using mathematical representations and identifying patterns in data gathered by observing a variety of mechanical waves.)	Q 2A& Q 2B	U2M11: Wave Properties, Module Test Q2&11
3	Learn how waves, including sound waves, interact with matter. (Use structures to investigate how waves are reflected, absorbed, or transmitted through various materials, and develop models to describe the phenomena they observe.)	Q 3A& Q 3B	U2M12: Mechanical Wave Interaction, Textbook, Teacher Edition, Page 40, Ask Q1
4	Observe how different structures affect wave behavior. (Use structures to investigate how waves are reflected, absorbed, or transmitted through various materials, and develop models to describe the phenomena they observe.)	Q 4A & Q 4B	U2M12: Mechanical Wave Interaction, Textbook, Teacher Edition, Page 50 Ask2
5	Develop an understanding of how a wave model of light is useful for explaining the brightness and energy of light. (Develop and use models to describe light's path as straight line and to describe how objects function to interact with light waves through reflection, absorption, and transmission.)	Q 5A& Q5B	U2M21: How Light Travels, Lesson Check, Q3
6	Develop and use models to explain how the colors of objects depend on the object's material and the frequency (color) of the light.	Q 6A& Q 6B	U2M24: Color of Light, Module Test, Q3
7	Develop an understanding of refraction, or the bending of light at a surface between media. (Develop and use models to investigate how light interacts with matter through transmission and refraction. They will trace the path of light where it bends at surfaces between different transparent materials by examining the structure and function of convex and concave lenses.)	Q 7A& Q 7A	U2M23: Refraction and Lenses, Lesson Check, Q2
8	Explore the structure and creation of sound waves. This will lead them to understand how sound is made, travels, and is heard.	Q 8A& Q8B	U3M10.1: The Nature of Sound, Textbook, Student Edition, Page 256, Check Your Progress, Q4
9	Explore the properties of sound waves. This will lead students to understand how sound is measured.	Q 9A& Q 9B	U3M10.2: Properties of Sound, Lesson Check Q1 & Q5
10	Explore different ways that information can be encoded and transmitted, while obtaining, evaluating, and communicating information about the role of science in developing and using information technologies.	Q 10A& Q 10B	U2M31: Communicating with Signals, Lesson Check, Q5
11	Explore the structure and creation of sound waves. This will lead them to understand how sound is made, travels, and is heard.	Q 11A& Q 11B	U3M10.1: The Nature of Sound, Lesson Check Q4
12	Explore the properties of sound waves. This will lead students to understand how sound is measured.	Q 12A& Q 12B	U3M10.2: Properties of Sound, Lesson Check, The Doppler Effect, Q2
13	Explore sound in music. This will lead them to understand how music is made and how it is different from noise.	Q 13A& Q 13B	U3M10.3: Music, Module Test, Q 8
14	Explore the properties of sound waves. This will lead students to understand how sound is measured.	Q 14A& Q 14B	U3M10.2: Properties of Sound, Textbook, Student Edition, Page 261, Q9
15	Explore sound in music. This will lead them to understand how music is made and how it is different from noise.	Q 15A& Q 15B	U3M10.3: Music, Lesson Check, Q5
16	Explore the uses of sound in technology. This will lead them to understand how sound is used to make images of things that cannot be seen.	Q 16A& Q 16B	U3M10.4: Using Sound, Textbook, Student Edition, Page 269, Fig 19 Q, Lesson Check Q1 and Q3
17	Explore the uses of sound in technology. This will lead them to understand how sound is used to make images of things that cannot be seen.	Q 17A& Q 17B	U3M10.4: Using Sound, Textbook, Student Edition, Page 271, Get it Q
18	Explore the structure of electromagnetic waves. This will lead them to understand the similarities and differences between electromagnetic waves and other waves.	Q 18A& Q 18B	U3M11.1: What are electromagnetic waves?, Textbook, Student Edition, Page 282, Get it Q
19	Explore the structure of electromagnetic waves. This will lead them to understand the similarities and differences between electromagnetic waves and other waves.	Q 19A& Q 19B	U3M11.1: What are electromagnetic waves?, Textbook, Student Edition, Page 282, last paragraph
20	Explore the electromagnetic spectrum. This will lead them to understand how the properties of electromagnetic waves change as they become more energetic.	Q 20A& Q 20B	U3M11.2: The Electromagnetic Spectrum, Textbook, Student Edition, Page 290, Check Your Progress, Q9
21	A learning outcome from the SoW*** نتائج من العطة القصوى***	Undisclosed غير معن	Undisclosed غير معن
22	A learning outcome from the SoW نتائج من العطة القصوى	Undisclosed غير معن	Undisclosed غير معن
23	A learning outcome from the SoW نتائج من العطة القصوى	Undisclosed غير معن	Undisclosed غير معن
24	A learning outcome from the SoW نتائج من العطة القصوى	Undisclosed غير معن	Undisclosed غير معن
25	A learning outcome from the SoW نتائج من العطة القصوى	Undisclosed غير معن	Undisclosed غير معن
*	While the overall number of marks is 120 (20*5=100 for main questions and 5*4=20 for bonus questions), the student's final grade will be out of 100. Example: If a student answers correctly 10 main and 2 bonus questions, (s)he receives a grade of 10*5+2*4=58, while if (s)he answers correctly 19 main and 3 bonus questions, (s)he scores a total of 19*5+3*4=107 which will be reported as 100 (maximum possible grade).		
*	من مجموع العطات الكلية هو 120 (100=20*5 من الأسئلة الأساسية و20=5*4 من الأسئلة الإضافية)، فإن درجة الطالب (الطالب) النهائية تحسب من 100. مثال: إذا أجاب الطالب (الطالب) بشكل صحيح عن 10 أسئلة أساسية و2 أسئلة إضافية، يتلقى درجة 10*5+2*4=58، بينما إذا أجاب (الطالب) بشكل صحيح عن 19 سؤالاً أساسياً و3 أسئلة إضافية، يحصل على مجموع 19*5+3*4=107، ما يؤدي إلى الدرجة 100 (الدرجة القصوى الممكنة).		
**	Questions might appear in a different order in the actual exam, and bonus questions will be clearly marked on the system (or on the exam paper in the case of G3 and G4).		
**	قد تظهر الأسئلة بترتيب مختلف في الامتحان الفعلي، وسيتم تحديد الأسئلة الإضافية بشكل واضح على النظام (أو على ورقة الامتحان في حالة الصفين G3 و G4).		
***	As it appears in the textbook, LMS, and scheme of work (SoW).		
***	كما يوردت في كتاب الطالب وLMS والخطة القصوى.		
****	The 5 bonus questions will target LDs from the SoW. These LDs can be within the ones used for the 20 main questions or any other ones listed in the SoW.		
****	الأسئلة الإضافية الخمس تستهدف نتائج تعلم من العطة القصوى. هذه النواتج قد تكون من ضمن النواتج المستخدمة عبر الأسئلة الأساسية العشرين أو أي نواتج أخرى متضمنة في الخطة القصوى.		