

تم تحميل هذا الملف من موقع المناهج الإماراتية



حل نموذج 2 مراجعة نهائية وفق الهيكل الوزاري منهج انسابير

موقع المناهج ← المناهج الإماراتية ← الصف الرابع ← علوم ← الفصل الثاني ← حلول ← الملف

تاريخ إضافة الملف على موقع المناهج: 08:03:50 2025-03-10

ملفات اكتب للمعلم اكتب للطالب الاختبارات الكترونية | اختبارات | حلول | عروض بوربوينت | أوراق عمل
منهج انجليزي | ملخصات وتقارير | مذكرات وبنوك | الامتحان النهائي للمدرس

المزيد من مادة
علوم:

إعداد: مدرسة الشاهين

التواصل الاجتماعي بحسب الصف الرابع



صفحة المناهج
الإماراتية على
فيسبوك

الرياضيات

اللغة الانجليزية

اللغة العربية

التربية الاسلامية

المواد على تلغرام

المزيد من الملفات بحسب الصف الرابع والمادة علوم في الفصل الثاني

نموذج 2 مراجعة نهائية وفق الهيكل الوزاري منهج انسابير

1

حل نموذج 1 مراجعة نهائية وفق الهيكل الوزاري منهج انسابير

2

نموذج 1 مراجعة نهائية وفق الهيكل الوزاري منهج انسابير

3

حل تدريبات مراجعة وفق الهيكل الوزاري منهج بريدج

4

تدريبات مراجعة وفق الهيكل الوزاري منهج بريدج

5

GRADE 4 TERM 2 SCIENCE
REVISION 2 EOT EXAM 2024-2025


	Student name
	School
	Class
SCIENCE	Subject

Important instructions:


• This is only a resource book to help you review for the exam.	
• Students need to solve the questions on their own.	
• Read each question carefully and answer.	
MULTIPLE CHOICE QUESTIONS	15 Questions X 4 = 60marks
FREE RESPONSE QUESTIONS	5 Questions X 8 = 40marks
Total	20 Questions = 100marks

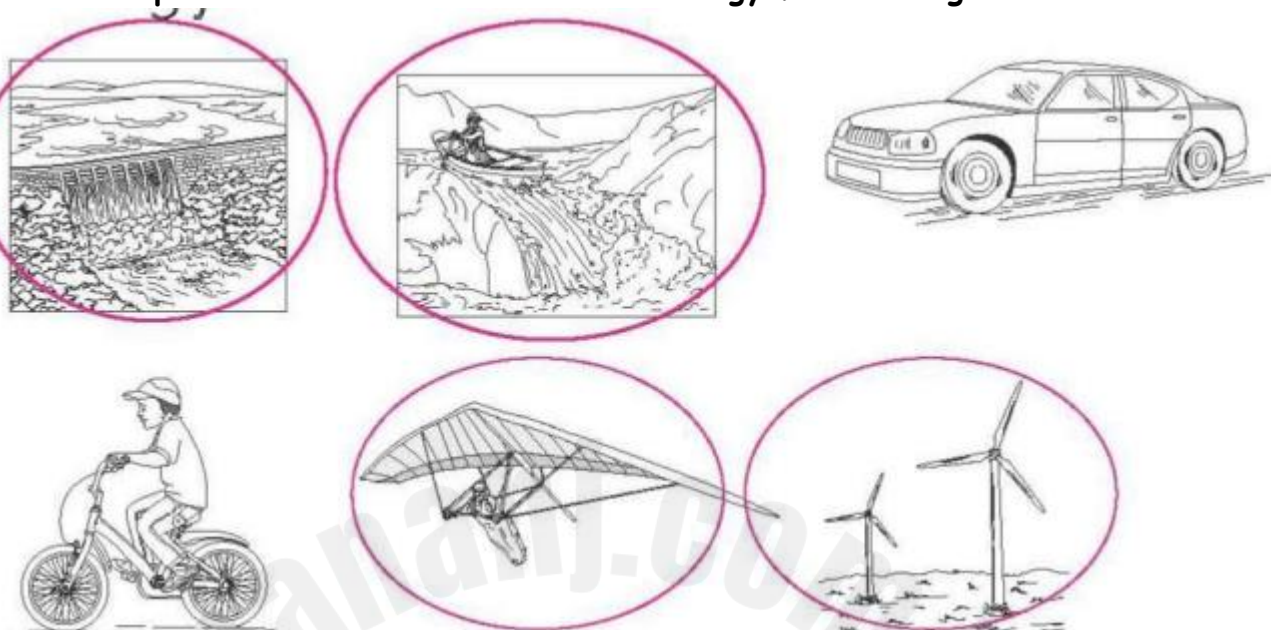
Question* السؤال	Learning Outcome/Performance Criteria** نتائج التعلم/معايير الأداء**	Reference(s) in the Student Book (English Version) المراجع في كتاب الطالب (النسخة العربية)		PDF
		Example/Exercise مثال/تمرين	Page الصفحة	
MCQ				
				Question No.
1	Students will identify and describe examples of energy changes in everyday situations.	Lesson 1 launch	5	1
		Three-Dimensional Thinking	27	2
2	Students will classify materials as thermal conductors or insulators based on their ability to transfer heat.*	Thermal Conductivity	74	3
		Three-Dimensional Thinking	77	4
3	Students will classify natural resources as renewable or nonrenewable based on their characteristics.	Nonrenewable Resources	94	5
		pdf	pdf	6
4	Students will identify and describe the type of energy produced by friction, specifically the generation of heat energy when rubbing hands together.	Three-Dimensional Thinking	77	7
5	Students will identify and categorize different types of energy sources.	Lesson 3 launch	121	8
		pdf	pdf	9
6	Students will identify and name renewable energy sources.	Lesson 2 launch	105	10
		Three-Dimensional Thinking	119	11
7	Students will describe and identify the energy change shown in a picture, recognizing how energy is transferred or transformed in different situations.	Students' Textbook Question 1	13	12
		Three-Dimensional Thinking	23	13
8	Students will identify fossil fuels and recognize which energy sources are not fossil fuels.	Three-Dimensional Thinking	103	14
		Lesson 2 launch	105	15
9	Students will explain chemical energy and identify examples of it in real-life situations, using a given image to support their understanding.	Forms of Energy (Talk About It)	12	16
10	Students will explain how human activities can change or affect the habitats of animals and plants.	Environmental Connection	126	17
11	Students will identify sound energy as a type of energy produced by vibrations.	pdf	14	18
12	Students will identify materials that are poor thermal conductors and understand how different materials transfer heat.	Three-Dimensional Thinking	59	19
13	Students will identify and understand how energy can transform from one type to another.	Label the Photo: Energy in the Classroom	15	20
14	Students will identify and describe different types of electric circuits.	Label a Diagram: Electric Circuit	50	21
		Label a Diagram: Electric Circuit	50	22
15	Students will identify the percentage of energy outputs from incandescent and LED lightbulbs.	Producing Thermal Energy	71	23
		Producing Thermal Energy	71	24
FRQ				
16	Students will describe how energy is transferred, including the conversion of energy from one type to another, and explain what happens when the circuit is broken.	pdf	pdf	25
17	Students will classify energy sources as renewable or nonrenewable and correctly identify whether statements about energy sources are true or false.	pdf	pdf	26
18	Students will identify and name types of thermal energy transfer, and describe the energy transformations in everyday examples.	pdf	pdf	27
19	Students will identify natural resources, explain their properties such as heat conductivity, describe the environmental impacts and also understand recycling materials.	Thermal Conductivity	74	28
		Habitat Loss	129	
		Lesson 3 Review	136	
		Three-Dimensional Thinking	137	
20	Students will identify and describe alternative energy sources, such as biomass, and explain their advantages. They will also learn how to interpret images to understand the percentage of each source of energy production.	pdf	pdf	29
		Three-Dimensional Thinking	103	

Question	1	
The radio sitting on the table made the water in my glass move. This shows		
A	Some types of energy cannot transfer through water.	
B	The sound energy of the radio transferred to the water.	
C	The electrical energy of the radio transferred through the water	

Question	2	
Which of the following slows down or stops the flow of electrical current?		
		
	Copper	Silver
	Gold	Wood
A	Copper	
B	silver	
C	Wood	

Question	3	
Circle true or false Air, sunlight, water, soil, rocks, minerals, plants and animals are considered as natural resources.		
A	True	
B	False	

Question	4	
When you rub your hands together quickly, what energy transfers are involved?		
		
A	Light energy	
B	Thermal energy	
C	Chemical energy	

Question	5
Circle the pictures that shows how we use energy from moving air and water.	
	

Question	6
Choose the renewable energy resources from the given options. Choose all that apply.	
A	oil
B	sun
C	Wind and water

Question	7								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; padding: 5px;">Energy Transformation</th> <th style="width: 50%; padding: 5px;">Example</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">chemical to electrical</td> <td style="padding: 5px;">battery powered flashlight</td> </tr> <tr> <td style="padding: 5px;">light to thermal</td> <td style="padding: 5px;">sunlight heats the sidewalk</td> </tr> <tr> <td style="padding: 5px;">motion to sound</td> <td style="padding: 5px;"></td> </tr> </tbody> </table>		Energy Transformation	Example	chemical to electrical	battery powered flashlight	light to thermal	sunlight heats the sidewalk	motion to sound	
Energy Transformation	Example								
chemical to electrical	battery powered flashlight								
light to thermal	sunlight heats the sidewalk								
motion to sound									
A	Burning candle heats up								
B	plucked guitar string makes noise								
C	Ball rolls down a hill								

Question	8	
<p>Sources of Electricity</p>		
<p>Based on the "sources of electricity" pie graph, what is the total percentage of non-renewable energy resources that are used to generate electricity.</p>		
<input checked="" type="radio"/> A		86%
<input type="radio"/> B		100%
<input type="radio"/> C		67%

Question	9	
<p>What form of energy is represented in the image below?</p>		
<input type="radio"/> A		Chemical energy
<input type="radio"/> B		Heat energy
<input checked="" type="radio"/> C		Solar energy

Question	10	
<p>How does oil spill affect wildlife in a habitat?</p>		
<input checked="" type="radio"/> A		oil coats animal bodies
<input type="radio"/> B		it protects the skin of an animal

Question	11
What causes sound energy when the drum hits?	
<input checked="" type="radio"/> A	vibrations
<input type="radio"/> B	light
<input type="radio"/> C	Colour of the drum

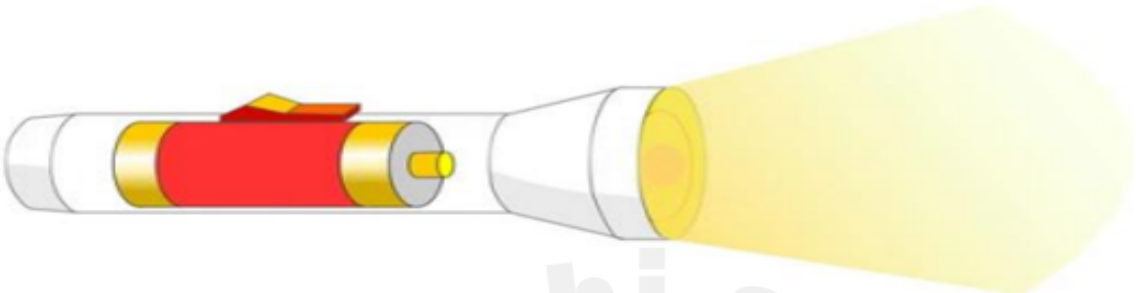
Question	12
A _____ is a material that slows or stops the flow of energy.	
<input type="radio"/> A	conductor
<input checked="" type="radio"/> B	Insulator
<input type="radio"/> C	battery

Question	13
In the given picture, the laptop transforms electrical energy into light, _____ and _____.	
<input type="radio"/> A	Kinetic and sound
<input type="radio"/> B	light and sound
<input checked="" type="radio"/> C	sound and thermal energy
Question	14
Which of the following best describes the above electric circuit?	

A	Series circuit
B	parallel circuit
C	open circuit

Question	15
<p>The figure below compares the percentages of heat and light energy produced from LED and incandescent light bulbs. What is the percentage of heat that is produced from each of them?</p>	
A	LED 91% and incandescent 2%
B	LED 9% and incandescent 98%
C	LED 98% and incandescent 91%

PART - B

Question	16						
<p>A. The image below shows a lightbulb.</p>							
							
<p>Use the words in the table to complete the sentences about how energy is transferred when you turn on a lightbulb.</p>							
<table border="1" style="width: 100%; text-align: center;"><tr><td>electricity</td><td>light</td><td>heat</td><td>switch</td><td>wire</td><td>energy</td></tr></table>		electricity	light	heat	switch	wire	energy
electricity	light	heat	switch	wire	energy		
<p>I. When you turn on the Switch electricity flows to the lightbulb.</p>							
<p>II. The Wire carries the electricity to the lightbulb.</p>							
<p>III. The lightbulb changes electricity energy into other types of energy.</p>							
<p>IV. The lightbulb gives off light so we can see.</p>							
<p>V. It also gives off heat which makes it warm.</p>							
<p>VI. This shows how Energy moves from one form to another.</p>							
<p>B. Explain what happens if the circuit is broken?</p>							
<p>The light will turn off. It will stop working.</p>							

Question

17

A. Classify the images of energy sources in the picture below as either renewable or nonrenewable:



RENEWABLE ENERGY	NON-RENEWABLE ENERGY
B, D, E, F, G, H	A, C

B. Write **true** or **false** for each sentence below:

- i. Solar energy is a nonrenewable resource. False
- ii. Coal is a renewable resource because it can be made again quickly. False
- iii. Trees are a renewable resource because we can plant new trees. True

Question

18

Thermal Conductivity	
Material	How Many Times Better Than Air It Conducts Heat
Oak wood	6
Water	23
Brick	25
Glass	42
Stainless steel	534
Aluminum	8,300
Copper	15,300
Silver	16,300

From the above table choose the best thermal conductor.

Silver



Use the image above.

What has been cleared away in this strip-mining operation?

Trees, plants and soil have been cleared.

Why is it important to conserve natural resources?

Conserving natural resources can make them available for future generations.

Question	19
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A. Biomass energy comes from **Living** things like plants and trees.
 (nonliving/living)
 People burn **plants** to make biomass energy. (fossil fuel/plants)
 Biomass energy is **Renewable** because we can grow more plants.
 (renewable/nonrenewable)

True or False:

Biomass energy comes from the sun. **False**

Wood and food waste can be used to make biomass energy. **True**

B.

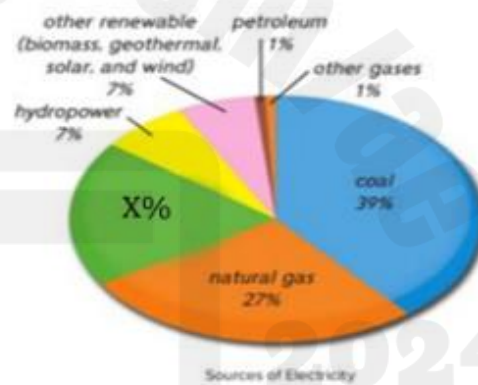
a. What is the percentage of (X%) nuclear energy in the image below.

$$1 + 39 + 27 + X + 7 + 7 = 100$$

$$81 + X = 100$$

$$X = 100 - 81$$

$$X = 19\%$$



b. Based on the "sources of electricity" pie chart, what is the total percentage of nonrenewable resources that are used to generate electricity?

$$1 + 39 + 27 + 19 = 86\%$$

Question	20
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A.



How does thermal energy get transferred from the Sun to the Earth in the image shown above?

Radiation



Identify the types of thermal energy transfer shown in the image above?

C. Identify the energy transformations in each of the picture below:

<p>1 Toaster</p> <p>Electrical → Thermal</p>	<p>2 Solar Calculator</p> <p>Solar/light → Electrical</p>
<p>3 Photosynthesis</p> <p>light → Chemical</p>	<p>4 Matchstick</p> <p>Chemical → heat and light</p>