

ELMotamyez Questions Bank

Science

february Revision

Ву

MRs. Amira Ahmed















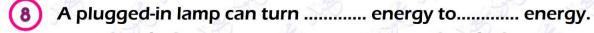


February Questions Bank





5	and the St.					30	
Qι	uestion 01	choo	se the cor	ret an	swer	p Z	CONCEPT
	a so	50		200		F6	3.1
(1)	The energy sou	ırce in	a toy car is t	he			
	(a) engine	b	tires	©	battery	d	fuel
2	depends on the	e idea		ing			e surface of Mars
	kinetic	b	kinetic	©	electric	d	electric School bool
(3)	In a battery of	a toy o	ar en	ergy cha	anges into	electri	cal energy
	(a) chemical	b	sound	•	thermal	d	kinetic Alex: montaza zone 2022
(4)	Curiosity rover	is desi	gned to exp	lore			
	Mars plane	et b	the Moon	©	the sun	d (Alex.–	Earth planet Al Montaza zone(2)2023
5	The on which is used t				t solar ene	rgy int	o <mark> energy</mark>
	Solar pane electrical	ls b	Batteries electrical	•	Solar panels sound	d	Batteries sound (alex. 2023
6	The output en	ergy ir	the Mars ex	kplorati	on ve <mark>hicle</mark>	is	en <mark>erg</mark> y.
7)	(a) electrical	Ъ	light	•	kinetic	d	solar (Menoufia 2023
(7)	By rubbing har	nds	energy	is chan	ged into th	nermal	energy.
V /	(a) chemical	•	kinetic	. 0	sound	a	potential (Cairo . Rod El Farag2023



electrical, light

kinetic, light 📵

chemical, light

chemical, heat

(Ministry models 2022)









primary 4 - second term

9		he washing ind energy.	mach	ine the	ener	gy is conve	rted in	nto kinetic and
	a	thermal	Ь	electrical	•	light	a	potential (Giza: Dokki Zone2023)
(10)	Wh	en you use t	he ha	nd bell, the	ener	gy changed	into	sound energy.
of the state of th	a	Electrical	(b)	potential	0	thermal	d	kinetic (Ministry models 2022)
(11)	Ene	ergy produce	d froi	m the electric	bulb is	s en	ergy.	
u 3.3	a	chemical	b	sound	©	light	(EI-B	kinetic ehira: Kafr El-Dawar 2023)
(12)	The	e output ene	rgy w	hen playing o	drums i	s the	er	nergy.
70	a	chemical	Ь	light	©	sound	d	potential (Minia: Bani Mazar 2023)
(13)	The	e input energ	y wh	en using the	lamp is	the	ene	rgy.
	a	electrical	b	potential	•	kinetic	d	thermal (Minia: Bani Mazar 2023)
(14)	Ene	ergy doesn't	destro	oy, nor create	from i	nothing, th	is indi	cates
	a	the drainin	g of e	energy resoul	rces			
	b	conservatio	n and	l transformati	ion of	energy		
	©	resources o	f ener	gy <mark>are nu</mark> me	rous			
	d	destroying	the er	nergy resourc	es			School book
15				some kinetice's tire with th			ed inte	o <mark> energy</mark>
	a	chemical	b	potential	•	thermal	d	electrical (Ministry models 2022)
16		e produced e ergy	nergy	from radio t	hat ref	le <mark>cts its m</mark> ai	in fun	ction is
	a	electric	Ь	sound	•	light	d	chemical (Cairo: Heliopolis2023
(17)	Inp	out energy w	hen u	ising the hair	dryer	is	. ener	gy. 🎺 🥳
4	a	electrical	b	potential	•	light	a	kinetic Cairo: El Waily Zone2023)
(18)	The	e output ene	rgy w	hen using the	e hair c	lryers is the	(T)	. energy.
	(a)	electrical	(b)	potential	0	light	a	thermal









(19)	The output end	ergy th	at is not fron	n the jo	b of hair dry	er is		
	(a) chemical	b	sound	©	kinetic	d	light	
	3		7.50	3	as y	200	Ismailia: Inspec	(a)
20)	The unusable e	_	-90	~		lam	300	nergy
	a potential	Э	chemical	(6)	thermal	(a)	light (Cairo: ELN	Nozha2023)
(21)	The wasted en	ergy ir	most device	s in the	form of		energy.	
	(a) electric	b	thermal	©	sound	d	kinetic	
	30						40	oufia 2023)
(22)	Both hair drye	and e	lectric water	kettle	oroduce	er	nergy.	
	(a) thermal	Ь	light	•	electric	d	potentia (Alex: montaza	
23	The stored ene	rgy ins	side the batte	ery of a	mobile phor	ne is		energy
2 7	(a) electrical	b	light	•	chemical	d	sound	
							(Alex: montaza	zone 2023)
	Question 02	put	(true) or (t	false)		1	1	
	4000000000	Porc	(0.0.0) 0.1 (.	14150)				
(I)	Mars is located	a few	meters away	y from	Earth.		(Alex: montaza	zone 2022)
(2)	Mars Curiosity	can b	e operated fr	om a d	istance	30		(2)
							(Ministry m	odels 2022)
3	A toy car can o	continu	ue moving ev	en afte	er its battery	runs		()
	Day Contact	P	3 A	TH			(Giza: Dokki	Zone2023)
•	Rover Curiosit	y is use	ea to explore	the Ju	oiter.		(Alex. Al Mon	taza zone1)
5	Chemical ener	gy is tl	ne energy tha	at store	d in food an	d ba	ittery.	(3)
							(Cairo . Rod E	I Farag2023)
6	Energy may be	e destr	oyed inside o	differen	t devices.		(Cairo: El Wai	()
7	Most of energ	y chair	s start with t	the mod	on &		9000	4
Ju.	most of cherg	550	and the state of t		7.50 W		(Giza: Agoz	za Zone2023)
8	There is a store	ed che	mical energy	inside	the food we	eat.		()
							(Giza: Agoz	a Zone2023)



Science primary 4 - second term



				1-		40 .
9	Energy canno	t be transformed	from one form to anothe	er (Alex: mont	(aza zone	2022)
10	Both electric b	oulb and electric h	neater produce thermal e	energy.	(East zone	
11)		nain of a burning on thermal energy	candle is chemical energ & light energy	< J	())
(12)	When pedallii change to kin		mical energy in your boo	ly 3	(Giza	2022)
				(Minia: Ba	ni Mazar	2022)
13	Plants need su	unlight to grow		3.25	(32	9)
				(Ministry	models 2	2022)
14	The produced function.	sound energy he	elps the hair dryer to do i	ts 3	(4	7
C	uestion 03	Correct the	underline words	ا المرادية المرادية	7	
1	Curiosity is a ro		t is designed to explore	(Giza: Ag	oza Zon) e2023
2	Thermal energy	used to play a dr	rum	(2
3	To operate an e	electric mixer, we	use <u>sound</u> energy	(y models)
0	Light operavis	stored inside the	battory of mobile phone	N. Caller	,	J. V.
4)	Light energy is	stored inside the	battery of mobile phone	•)
				(Qena: Science II	nspectora	te2023
	as I	30	ar y	ع م	ψ.	
C	uestion 04	Complete th	e following sentenc	es		
1	by using	energy f	can be operated for a lor from sunlight that is conv echarge its batteries	The state of the s	0	
2	Solar panels ar	e used to generat	energy	THE WAY		36





Science primary 4 - second term



3	Most of the energy we use is produces inside the
	The energy that is produced from the battery and used to operate a toy
4)	car isenergy.
	(Alex: East zone 2022)
(5)	Light energy is converted intoenergy which is stored in
9	the form of sugar inside the trees.
	(Dakahlia: 2023)
6)	is the main source of energy on the Earth's surface.
	(Dakahlia: 2023)
7	Energy can neither be, but only
<u> </u>	from one form to another (Cairo 2023)
(8)	To operate an electric mixer, we useenergy.
	(Alex: East zone 2022)
9	The electric lamp convertsenergy into light and heat energy.
	(Alex: East zone 2022)
(10)	The energy can befrom one form to another
(e)	(Cairo: El Waily Zone2023)
(11)	In hand bell, kinetic energy is converted intoenergy. (Alexandria: Middle Zone2023)
(12)	In the washing machine electrical energy converted intoenergy.
	(Suez: South Zone2023)
(13)	When you ride a bicycle, theenergy stored in your body is
360	converted intoenergy which causes the bicycle to move
	Energy produced from the radio which helps the device do its main
(14)	function isenergy
	(El-Behira: Kafr El-Dawar 2023)
(15)	The mobile phone converts chemical energy stored in its batteries into
(15)	energy andenergy.
	(Qalyubiyya 2023)

Question 05 Write the scientific term

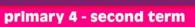
A robot vehicle that can be controlled from a distance and is used to explore the surface of mars

(Ismailia: Inspectorate2023)











			/ 3 **/	
2	The form of control toy ca	energy that is stored in battery of a remote- ars.	£ 3.55	3
			(Ministry mod	lels 2022
3	The energy p	oroduced from playing guitar.	(Giza 202	23)
4		ither created nor destroyed, but it changes m to another.	(Dakahlia:	6
5	The energy (used to play a drum.	Jo J	25
			(Minia: Bani M	azar 202
6	A kind of encheater and b	ergy that is produced from the electrical urning coal .	(Alex: montaza z	zone 2022
7	A device used	d to convert electrical energy into light energy	(Alex: East 2	zone 2022
8	The energy p	produced when the wood of trees is burned.	(Alex: East 2	zone 2022
9	Energy that	always produced due to friction.		36
(10)	The wasted	energy of a computer .	(Ministry mod	4
11)	The energy to in doing its jo	that is produced from the blender and helps it ob.	(Al-Azhar Al-Sha)
W			-3/2	
Q	uestion 06	Give reason for each of the following		
1	Mars rover of any need to	curiosity operates for long period of time on Ma be charged	rs without	120
Q	uestion 07	What happens if		
(i	On shakii	ng a hand bell. (according to the change of ene	rgy)	



(Cairo . Rod El Farag2023)



The change of energy when you turn on the television (Cairo: El Nozha2 You put your hands near a lighted lamp. (Minia: Bani Mazar 2 The change of energy) (Menoufia, 20 Question 08 Answer the following questions Complete the following energy chain in the hair dryer. Chemical energy Thermal & kinetic energies Complete the following table: (Cairo: El Nozh A kinetic energies Complete the following table: (Dakahila: 2023) Device Input energy 1. Electric heater: 2. Hand bell:	② On	turning an elec	tric lamp. (a	ccording to	changing in energy)
You put your hands near a lighted lamp. [Minia: Bani Mazar 2 [Menoufia, 20 [Meno	ar Brann	, NO 36	a de la composição de l	300 B	(Cairo: El Waily Zone2
You put your hands near a lighted lamp. (Minia: Bani Mazar 2 Rubbing your hand together (According to the change of energy) (Menoufia, 20 Question 08 Answer the following questions Complete the following energy chain in the hair dryer. Chemical energy Thermal &kinetic energies Complete the following table: (Dakahlia: 2023) Device Input energy Device Input energy Device Input energy Device Input energy Lielectric heater: 2. Hand bell: Mention energy changing in the following table: (El-Behira: Kafr El-Dawar 2023) Complete the following figure: (Menoufia 2023) Complete the following figure: (Menoufia 2023) Complete the following figure: (Menoufia 2023)	3 The	e change of ener	gy when you to	ırn on the te	levision
Rubbing your hand together (According to the change of energy) Menoufia, 20 Question 08 Answer the following questions Complete the following energy chain in the hair dryer. Chemical energy Thermal & kinetic energies Complete the following table: Complete the following table: Device Input energy 1. Electric heater: 2. Hand bell: Mention energy changing in the following table: El-Behira: Kafr El-Dawar 2023 Complete the following figure: (Menoufia 2023)	In July	150 55	Jan Jan	A SA	(Cairo: El Nozha2
Rubbing your hand together (According to the change of energy) (Menoufia, 20 Question 08 Answer the following questions Complete the following energy chain in the hair dryer. Chemical energy Thermal & kinetic energies Complete the following table: Device Input energy 1. Electric heater: 2. Hand bell: Mention energy changing in the following table: (El-Behira: Kafr El-Dawar 2023) Produced (output) energy an: Complete the following figure: (Menoufia 2023) Used in Electric lamp produce energy	4 Yo	u put your hand	s near a lighted	lamp.	
Question 08 Answer the following questions Complete the following energy chain in the hair dryer. Chemical energy Thermal & Kinetic energies Complete the following table: (Dakahlia: 2023) Device Input energy Output energy 1. Electric heater:	and the second	4. 350			(Minia: Bani Mazar 2
Complete the following energy chain in the hair dryer. Chemical energy (coal) Thermal &kinetic energies Complete the following table: Device Input energy 1. Electric heater: 2. Hand bell: Mention energy changing in the following table: Complete the following figure: (Menoufia 2023)	5) Rut	bbing your hand	together (Acco	ording to the	change of energy)
Complete the following energy chain in the hair dryer. Chemical energy Thermal & line of the Sun (coal) Chemical energy Thermal & line of the Sun (coal) Chemical energy Thermal & line of the Sun (coal) Chemical energy Thermal & line of the Sun (coal) Electric heater: Input energy Output energy I. Electric heater: I. Electric heater: I. Hand bell: Mention energy changing in the following table: El-Behira: Kafr El-Dawar 2023 Evice Consumed (input) energy Produced (output) energy an: Complete the following figure: (Menoufia 2023) Used in Electric lamp produce energy	<i>J</i> 32				(Menoufia, 20
Complete the following energy chain in the hair dryer. Chemical energy Thermal & line of the Sun (coal) Chemical energy Thermal & line of the Sun (coal) Chemical energy Thermal & line of the Sun (coal) Chemical energy Thermal & line of the Sun (coal) Electric heater: Input energy Output energy I. Electric heater: I. Electric heater: I. Hand bell: Mention energy changing in the following table: El-Behira: Kafr El-Dawar 2023 Evice Consumed (input) energy Produced (output) energy an: Complete the following figure: (Menoufia 2023) Used in Electric lamp produce energy	Ouesti	on 08 Answ	er the follo	wina aues	tions
1. Electric heater: 2. Hand bell: Mention energy changing in the following table: evice Consumed (input) energy Produced (output) energy an: Complete the following figure: (Menoufia 2023) Used in Electric lamp Produce energy en	Complete		z able: (Dak	ahlia: 2023)	The state of the s
2. Hand bell: Mention energy changing in the following table: evice Consumed (input) energy Produced (output) energy an: Complete the following figure: (Menoufia 2023) Used in Electric lamp Produce Consumed (input) energy Produce	1 Flect		input enei	gy	Output energy
evice Consumed (input) energy Produced (output) energy an:) () () () () () () () () () (
Complete the following figure: (Menoufia 2023) Used in Electric lamp produceenerg					
Complete the following figure: (Menoufia 2023) Used in Electric lamp produceenerg	<u>Mention</u>	e <mark>nergy changin</mark>	g in the followi	ng table:	(El-Behira: Kafr El-Dawar 2023
Used in Electric lamp produce energ		The same of the sa	to Del	30	
See a production	evice an:	Consumed (input) energy	Produced (o	
ALANA MARKATAN MARKAT	evice an:	Consumed (input) energy	Produced (o	



<u> 5 ме</u>	ention the input	and o	utput energies	of th	e opposite d	evice	<mark>2.</mark> (Minia: Bani Mazar 202
Input	energy is		535				
Un	ut energy is			9	<u> </u>		
Outp	at energy is	35	12-	4			
	350	30	25 75		30		350 12
<u>М</u>	ention a device	that co	nvert electric	energ	<u>jy into kineti</u>	<u>c an</u>	d sound energy
							(Qena 2023)
QI	uestion 01	choo	se the corre	t an	swer		CONCEPT
	antinaminamina (a)						3.2
(1)	Among forms			n car		are	
	gasoline an wood	a b	natural gas and coal	©	wood and coal	d	natural gas and gasoline
(2)	All of the follo	wing a	re forms of fue	el, exc	ept	?	
j	a natural ga	as b	gasoline	©	coal	d	glass
3	is cons	idered	as the main re	esour	ce of energy	on t	he Eath's surface
J.95/	(a) Gasoline	b	the sun	©	natural gas	d	the moon
4	Wood is consid	dered a	ıs				
3	a bio fuel	b	fossil fuel	©	liquid fuel	d	gas <mark>eous fue</mark> l
5	is a type	e of bio	fuel which is r	nade	of wood.		
	(a) Coal	b	Oil	©	Charcoal	d	Natural gas
6	All the followi	ng are	forms of fossil	fuel,	except		
	water	b	coal	©	natural gas	d	oil
7	Extreme heat a role in forming		essure under th	ne ear	rth's surface	has a	an important
9	(a) wood	(b)	wind	©	fossil fuel	d	biofuel
8	Fossil fuel is ex	xtracte	d from				
6	a the Earth's surface	b	the underground	•	the food	d	the water
9	Fossil fuels ne	ed	to be form	ned u		th's	surface.
	a five years	(b)	ten years	0	hundreds of years	d	millions of years



Science primary 4 - second term



Question 02

put (true) or (false)

1	Both coal and wood produce thermal energy when they are burned.								
2	You need gasoline to move a bicycle								
3	When fuel is burned, it produces thermal energy.								
4	Green plants are one of the nonrenewable resources of energy. (
5	Water and gasoline are two renewable resource of energy (
6	We have to conserve all forms of fuel.								
7	Coal was formed from the sea animals remains.								
8	Charcoal is formed from decomposition of remains of ancient plants								
9	Biofuels are from nonrenewable resources of energy.								
9	The Sun is the main source of forming both biofuel and fossil fuel								
11	Oil and coal are considered as nonrenewable resources.								
12	Biofuel is one of non-renewable resources of energy.								
13	We can make liquid fuel from wood chips and grass								
14	Some types of plants can be used to make a liquid fuel.								
Q	Complete the following sentences								
1	When fossil fuel is burned, it produces energy.								
2	Some forms of fuel can be used in cooking food such as wood and								
3	Fuel is used as a source of energy.								
4	is used as source of thermal energy in homes and cars.								
5	We need energy for cooking food and warming houses.								
6	Wood and are examples of biofuel, while and are examples of fossil fuel.								
7	is a renewable source of energy.								
7 8	Coal and oil are considered as resources of energy.								
9	Corn and wood are fuel.								
(10)	Fossil fuel is considered asresources of energy								



Question 04

write scientific term for each of the following

\mathbf{U}	Any substance burned.	that produces thermal energy when it is	S n
2	The energy pro	oduced when the wood is burned	
3	It is the main s Earth's surface	ource of most forms of energy on the	The way
4	They are fuels planted	made from living organisms that can be	365
5	It is a form of formarine animals	ossil fuel that was formed from dead	(Jest D
6		ossil fuel that was formed from dead plants it of extreme heat and pressure	
Q	uestion 05	Give Reason for each of the following	700
AND I			7
1 2		dered as a fuel.	nvironment
1 2 3	Wood is consi		nvironment
1 2 3	Wood is consi	dered as a fuel.	nvironment
1 2 3	Wood is consi	dered as a fuel.	nvironment

Question 07

cross the odd word

1

Wood - Coal - Oil - Natural gas.

Question 08

Answer the following questions

B) Give an example:

- 1.Renewable energy resource
- 2.Fossil fuel.

انتهت الأسئلة مع أطيب الامنيات بالنجاح والتوفيق







Model Answers

Science

February Revision

Ву

MRs. Amira Ahmed

cartoon science











February Questions Bank





5	at the St					40	
Qı	uestion 01	choc	se the co	rret an	swer	y	CONCEPT
er y	12 3	20	35° -	24	40	By D	- 3.1
(1)	The energy sou	ırce in	a toy car is	the			
	engine	b	tires	©	<u>battery</u>	d	fuel
							(suez 202)
(2)	depends on the					res the	e surface of Mar
	electric to	(b)	potential t	to ©	light to	(d)	kinetic to
	kinetic	19/	kinetic		electric		electric School boo
(3)	In a battery of	a toy	car en	ergy cha	anges into e	electri	cal energy
	a <u>chemical</u>	(b)	sound	©	thermal	d	kinetic
						(4	Alex: montaza zone 202
4	Curiosity rover	is desi	gned to exp	olore			
	Mars plane	<u>t</u> b	the Moon	C	the sun	d	Earth planet
							Al Montaza zone(2)202
(5)	The on which is used t	o char			t solar ener	gy int	o <mark> energy</mark>
	Solar pane	ls (b)	Batteries	(0)	Solar panels	(d)	Batteries
	electrical		electrical		sound		sound (alex. 202)
(6)	The output en	ergy ir	the Mars e	xplorati	on ve <mark>hicle</mark> i	s	energy.
	electrical	(b)	light	0	kinetic	d	solar
プー							(Menoufia 202)
7	By rubbing har	nds	energy	is chan	ged into th	ermal	energy.
	(a) chemical	(b)	kinetic	0	sound	(d)	potential

(Cairo . Rod El Farag2023)

A plugged-in lamp can turn energy to..... energy.

kinetic, light **©**

chemical, light

chemical, heat

(Ministry models 2022)









primary 4 - second term

9		he washing i ind energy.	mach	ine the	ener	gy is conve	rted in	nto kinetic and
	a	thermal	Ь	<u>electrical</u>	•	light	d	potential (Giza: Dokki Zone2023)
(10)	Wh	en you use t	he ha	nd bell, the	ener	gy changed	into:	sound energy.
24	a	Electrical	b	potential	•	thermal	d	kinetic (Ministry models 2022)
(11)	Ene	ergy produce	d froi	m the electric	bulb is	s en	ergy.	
4 3.9	a	chemical	b	sound	©	<u>light</u>	(EI-Be	kinetic ehira: Kafr El-Dawar 2023)
(12)	The	e output ener	gy w	hen playing o	drums i	is the	er	nergy.
FO	a	chemical	b	light	©	sound	d	potential (Minia: Bani Mazar 2023)
(13)	The	e input energ	y wh	en using the	lamp is	the	ene	rgy.
	a	electrical	b	potential	•	kinetic	d	thermal (Minia: Bani Mazar 2023)
(14)	Ene	ergy doesn't	destro	oy, nor create	from i	nothing, th	is indi	cates
	a			energy resoul				
	(b)		_	l transformat		energy		
	(c)			gy are nume				
	(d)			nergy resourc				School book
15		ring riding a	bike,		energy		ed inte	o energy
	a	chemical	b	potential	•	thermal	d	electrical (Ministry models 2022)
16)		e produced e ergy	nergy	from radio t	hat ref	le <mark>cts its m</mark> ai	in fun	ction is
	a	electric	b	sound	•	light	d	chemical (Cairo: Heliopolis2023
(17)	Inp	out energy w	hen u	ising the hair	dryer	is	ener	gy. 🎺 🥳
	a	<u>electrical</u>	b	potential	•	light	d	kinetic Cairo: El Waily Zone2023)
(18)	The	output ener	gy w	hen using the	e hair c	dryers is the	400	. energy.
	(3)	1-3-4		potential		N. O.		thermal





Science primary 4 - second term



								2 2
(19)	The output end	ergy th	at is not fron	n the jo	b of hair dry	yer is		
	a chemical	b	sound	©	kinetic	d	light	
	5_ 36		250	3	as of	34	smailia: Inspe	9
20	The unusable e			~			= 30	nergy
	a potential	Ь	chemical	(6)	thermal	(d)	light (Cairo: El	Nozha2023)
(21)	The wasted en	ergy ir	most device	s in the	form of	47	energy.	
	(a) electric	b	thermal	©	sound	d	kinetic	
								noufia 2023)
(22)	Both hair dryer	and e	lectric water	kettle	oroduce	er	J.	
	a thermal	Ь	light	•	electric	d	potenti Alex: montaz	
23	The stored ene	rgy ins	side the batte	ery of a	mobile pho	ne is		energy
2 7	(a) electrical	b	light	©	chemical	d	sound	
							Alex: montaz	a zone 2023)
	Question 02	nut	(true) or (false)				
	Quescion 62	pac	(crac) or (raise ,			4.0	14/25
(1)	Mars is located	a few	meters away	y from	Earth.		Alex: montaz	X
(2)	Mars Curiosity	can be	e operated fr	om a di	istance	36	MCX. Montaz	(1 2011C 2022)
					P		(Ministry r	nodels 2022)
3	A toy car can o	continu	ue moving ev	en afte	er its battery	runs		×
	Day Curio sit	ν - Δ		THE			(Giza: Doki	ki Zone2023)
4)	Rover Curiosit	y is use	ed to explore	the Ju	piter.		(Alex. Al Mo	ntaza zone 1)
5	Chemical ener	gy is tl	ne energy tha	at store	d in food ar	nd ba	ttery.	y Sh
							(Cairo . Rod	El Farag2023)
6	Energy may be	e destr	oyed inside o	differen	t devices.		(Cairo: El Wa	aily Zone2023)
7	Most of energy) v chair	ns start with 1	the mo	on J		الربي	* X
3	3.	250	3	and the	7.30		(Giza: Ago	oza Zone2023)
8	There is a store	ed che	mical energy	inside	the food we	e eat.		
							Giza: Ago	oza Zone2023)







Energy cannot be transformed from one form to another



(Alex: montaza zone 2022)

Both electric bulb and electric heater produce thermal energy.



5,70





(Alex: East zone 2022)

When pedalling a bike, the chemical energy in your body change to kinetic energy



(Minia: Bani Mazar 2022)

(13) Plants need sunlight to grow



(Ministry models 2022)

The produced sound energy helps the hair dryer to do its function.



(Ministry models 2022)

Question 03 Correct the underline words

Curiosity is a robotic vehicle that is designed to explore the surface of the moon.

Mars

(Giza: Agoza Zone2023)

Thermal energy used to play a drum

The sun

(Ministry models 2022)

To operate an electric mixer, we use sound energy

kinetic

(Ministry models 2022)

Light energy is stored inside the battery of mobile phone.

electric

(Qena: Science Inspectorate2023)

Question 04 Complete the following sentences

On Mars planet, Curiosity robot can be operated for a long period of time by using solar energy from sunlight that is converted into electrical energy used to recharge its batteries

(Cairo - Zeitoun Zone 2023)

Solar panels are used to generate <u>electrical</u> energy

(Ismailia: Inspectorate2023)









Most of the energy we use is produces inside the sun

(Ismailia: Inspectorate2022)

The energy that is produced from the battery and used to operate a toy car is <u>electrical</u> energy.

(Alex: East zone 2022)

Light energy is converted into <u>chemical</u> energy which is stored in the form of sugar inside the trees.

(Dakahlia: 2023)

6 The sun is the main source of energy on the Earth's surface.

(Dakahlia: 2023)

Energy can neither be <u>created</u> nor <u>destroyed</u>, but only <u>changed</u> from one form to another

(Cairo 2023)

8 To operate an electric mixer, we use <u>electrical</u> energy.

(Alex: East zone 2022)

The electric lamp converts <u>electrical</u> energy into light and heat energy.

(Alex: East zone 2022)

The energy can be <u>changed</u> from one form to another

(Cairo: El Waily Zone2023)

(1) In hand bell, kinetic energy is converted into sound energy.

(Alexandria: Middle Zone2023)

(12) In the washing machine electrical energy converted into kinetic energy.

(Suez: South Zone2023)

When you ride a bicycle, the <u>chemical</u> energy stored in your body is converted into <u>kinetic</u> energy which causes the bicycle to move

(Behaira 2022)

Energy produced from the radio which helps the device do its main function is sound energy

(El-Behira: Kafr El-Dawar 2023)

The mobile phone converts chemical energy stored in its batteries into light energy and sound energy.

(Qalyubiyya 2023)

Question 05 Write the scientific term

A robot vehicle that can be controlled from a distance and is used to explore the surface of mars

mars rover curiosity robot

(Ismailia: Inspectorate2023)











- The form of energy that is stored in battery of a remotecontrol toy cars.
- The energy produced from playing guitar.
- Energy is neither created nor destroyed, but it changes from one form to another.
- 5) The energy used to play a drum.
- A kind of energy that is produced from the electrical heater and burning coal.
- A device used to convert electrical energy into light energy
- (8) The energy produced when the wood of trees is burned.
- Energy that always produced due to friction.
- The wasted energy of a computer
- The energy that is produced from the blender and helps it in doing its job.

Chemical energy

(Ministry models 2022)

Sound energy

Giza 2023)

Law of conservation of energy

(Dakahlia: 2023)

Kinetic energy

(Minia: Bani Mazar 2023)

Thermal energy

(Alex: montaza zone 2022)

Electric lamp

(Alex: East zone 2022)

Thermal energy

(Alex: East zone 2022)

thermal energy

(Ministry models 2022)

Thermal energy

(Ministry models 2022)

kinetic energy

(Al-Azhar Al-Sharif 2023)

Question 06 Give reason for each of the following

Mars rover curiosity operates for long period of time on Mars without any need to be charged

Because of solar panels that use sunlight to recharge its batteries

Question 07 What happens if

On shaking a hand bell. (according to the change of energy)
Kinetic energy changes into sound energy

(Cairo . Rod El Farag2023)

On turning an electric lamp. (according to changing in energy)









- The electrical energy changes into light and thermal energies
 (Cairo: El Waily Zone2023)
- The change of energy when you turn on the television

 Electrical energy changes into sound, light and thermal energies
- You put your hands near a lighted lamp.
 You feel warm, because some electrical energy is converted into thermal energy

 (Minia: Bani Mazar 2023)
- Rubbing your hand together (According to the change of energy)

 Kinetic energy changes into thermal energy (Menoufia, 2022)

Question 08

Answer the following questions

(1) Complete the following energy chain in the hair dryer.

(Cairo: El Nozha2023)

light from the Sun Chemical energy (coal)

Thermal & kinetic energies

goes through wire

Thermal, sound & kinetic

& kinetic energies

2 Complete the following table:

(Dakahlia: 2023)

Device	Input energy	Output energy
1. Electric heater:	Electrical energy	Thermal energy
2. Hand bell:	Kinetic energy	Sound energy

(EI-Behira: Kai

(El-Behira: Kafr El-Dawar 2023)

Device Consumed (input) energy Produced (output) energy
Fan: Electrical energy Kinetic energy

(4) Complete the following figure: (Menoufia 2023)

Electrical energy

Used in

Electric lamp

produce

<u>light</u> energy thermal energy







Mention the input and output energies of the opposite device. (Minia: Bani Mazar 2023)

Input energy is <u>electrical energy</u>

Output energy is thermal energy



6) <u>M</u>	ention a device t	that co	nvert electri	c energ	<u>y into kineti</u>	c and	d sound energy	<u> </u>
<u>v</u>	Vashing machin	e – ble	nder		(Qena 202	23)	10/16	
QI	uestion 01	choo	se the cor	ret an	swer	T.	CONCEPT 3.2	
1	Among forms	_				are		
	a gasoline and wood	•	natural gas and coal	•	wood and coal	d	natural gas and gasoline	
(2)	All of the follo	wing a	re forms of f	uel, exc	ept			
30	a natural ga	s b	gasoline	•	coal	d	glass	
(3)	is cons	idered	as the main	resourc	e of energy	on t	he Eath's surfac	:e
	(a) Gasoline	b	the sun	•	natural gas	d	the moon	
4	Wood is consid	lered a	s					
	a bio fuel	b	fossil fuel	©	liquid fuel	d	gaseous fuel	
(5)	is a type	of bio	fue <mark>l which</mark> is	s made	of wood.			
D	Coal	b	Oil	©	Charcoal	d	Natural gas	
6	All the following	ng are	forms of foss	sil fuel,	except			
250	a water	b	coal	©	natural gas	d	oil	
7	Extreme heat a role in forming			the ear	th's surface	has a	an imp <mark>ortant</mark>	
	(a) wood	b	wind	©	fossil fuel	d	biofuel	
(8)	Fossil fuel is ex	tracte	d from	45				
3.90	a the Earth's surface	Ь	the underground	•	the food	a	the water	
9	Fossil fuels nee	ed	to be fo	rmed u	nder the Ear	rth's	surface.	
3	a five years	b	ten years	•	hundreds of years	d	millions of years	4

Ouestion 02

put (true) or (false)

1	Both coal and wood produce thermal energy when they are burned.	V
2	You need gasoline to move a bicycle	×
3	When fuel is burned, it produces thermal energy.	V
4	Green plants are one of the nonrenewable resources of energy.	×
5	Water and gasoline are two renewable resource of energy	×
6	We have to conserve all forms of fuel.	V
7	Coal was formed from the sea animals remains.	×
8	Charcoal is formed from decomposition of remains of ancient plants	×
9	Biofuels are from nonrenewable resources of energy.	×
10	The Sun is the main source of forming both biofuel and fossil fuel	
11	Oil and coal are considered as nonrenewable resources.	V
12	Biofuel is one of non-renewable resources of energy.	×
13	We can make liquid fuel from wood chips and grass	
14	Some types of plants can be used to make a liquid fuel.	

Question 04 Complete the following sentences

- When fossil fuel is burned, it produces thermal energy.
- Some forms of fuel can be used in cooking food such as wood and coal
- Fuel is used as a source of thermal energy.
- 2 3 4 5 natural gas is used as source of thermal energy in homes and cars.
- We need thermal energy for cooking food and warming houses.
- Wood and charcoal are examples of biofuel, while oil and coal are 6 examples of fossil fuel.
- water is a renewable source of energy.
- Coal and oil are considered as nonrenewable resources of energy.
- Corn and wood are bio fuel.
- Fossil fuel is considered as **nonrenewable** resources of energy









Ouestion 04

write scientific term for each of the following

(1)	Any substance the	nat produces	therm	al energy v	when it is
-	burned.				

Fuel

2 The energy produced when the wood is burned

Thermal energy

It is the main source of most forms of energy on the Earth's surface

sun

They are fuels made from living organisms that can be planted

Biofuel

5 It is a form of fossil fuel that was formed from dead marine animals

Oil

It is a form of fossil fuel that was formed from dead plants under the effect of extreme heat and pressure

Coal

Question 05

Give Reason for each of the following

- Using wood of trees as a fuel has negative effects on the environment

 Because continuity of cutting down trees leads to deforestation
- Wood is considered as a fuel.

 Because wood produces thermal energy when it is burned
- We must conserve the fossil fuels

 Because fossil fuels are formed over millions of years, so they cannot be replaced as we use them

Question 06

What happens if?

The car movement if fuel runs out in a car.

The car movement decreases until it stops

The remains of marine were buried under the Erath's surface over millions of years

Formation of oil





Question 07

cross the odd word



Wood - Coal - Oil - Natural gas.

Wood (biofuel)

Question 08

Answer the following questions

B) Give an example:

1.Renewable energy resource water

2.Fossil fuel. gasoline

انتهت الأسئلة مع أطيب الامنيات بالنجاح والتوفيق



