مراجعات النـــخبة

بنك الأسئلة

Science Review for February 2025

Science



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مراجعات النخبة
من
تراست أكاديمى اونلاين
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أكاديمية تراست
اونلاين
ابتدائي-إعدادي-ثانوي

لغات -تجريبي- عربي-أزهري

ناشيونال-انترناشيونال

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Question 1 choose the correct answer

1. In the battery of a toy car.....energy is converted into electrical energy
   (a) Chemical (b) Sound
   (c) Light (d) thermal



2. The energy source in a toy car is the.....
   (a) Engine (b) Tires
   (c) Battery (d) fuel

3. It takes several..... for a spacecraft to travel from Earth to Mars.
   (a) Seconds (b) Minutes
   (c) Days (d) months

4. Plants can convert the light energy from the Sun into..... energy which is stored in the plant in the form of sugar.
   (a) Sound (b) Electrical
   (c) Chemical (d) kinetic

5. When you eat an apple, your body converts the..... energy stored in the apple into..... energy when you move.
   (a) chemical- electrical (b) kinetic chemical
   (c) Electricalchemical (d) chemical kinetic

6. Electric wires are made of
   (a) Copper (b) Paper
   (c) Wood (d) glass

Science

7 In the electric water kettle, electrical energy is converted into.....energy that can heat the cold water inside it.

(a) Potential (b) Thermal
(c) Electrical (d) chemical

8 When you turn on a light bulb, the electrical energy travels through.....until reaching the bulb.

(a) Wires (b) Glass
(c) Wood (d) plastic

9 Some kinetic energy is converted into..... energy due to friction of bike's tire with the road.



(a) Light (b) Electrical
(c) Potential (d) thermal

10 Which form of energy is not used or produced when you turn on an electric bulb?.....

(a) Electrical (b) Light
(c) Thermal (d) Sound

11 When you use the hand bell, the..... energy is converted into sound energy

(a) Light (b) Thermal
(c) Kinetic (d) electric

12 During charging a mobile phone, the..... energy is converted into.....energy that is stored in the phone battery.

(a) electrical-chemical (b) chemical-thermal
(c) electrical-thermal (d) thermal chemical

Science

13 The produced .....energy does not help the blender do its job.

(a) Chemical (b) Sound
(c) Light (d) potential

14 When a piece of coal is burned,..... energy is produced.



(a) Thermal (b) Solar
(c) Sound (d) potential

15 Some kinetic energy is converted into..... energy due to friction of bike's tire with the road.

(a) Light (b) Electrical
(c) Potential (d) thermal

16 Among the forms of fuel that are present in car fuel stations are.....

(a) gasoline and wood (b) natural gas and coal
(c) wood and coal. (d) gasoline and natural gas

17 The..... on the rover Curiosity convert solar energy into..... energy which is used to charge its batteries.

(a) solar panels – electrical (b) batteries electrical
(c) solar panels – sound (d) batteries sound

18 When a solar calculator is exposed to sunlight.....energy is converted into.....energy

(a) electrical – light (b) light – solar
(c) sound – solar (d) solar electrical

19 In the soap dispenser the ..... energy converted into..... energy .

(a) chemical – electrical (b) Kinetic - chemical
(c) Electrical - chemical (d) Potential - kinetic

Science

20 The input energy in the fridge is .....energy

(a) Electrical (b) Sound
(c) Chemical (d) thermal

21 When you turn on a flashlight, the chemical energy stored in the battery is converted into.....energy that is converted into.....energy

(a) light – sound (b) electrical – light
(c) kinetic electrical (d) light - electrical

22 Thermal energy is not considered lost energy in the.....

(a) mobile phone (b) washing machine
(c) electric fan (d) electric heater

23 The spring of a spring toy car convert..... energy into ..... energy

(a) chemical – electrical (b) Kinetic - chemical
(c) Electrical - chemical (d) Potential - kinetic

24 The energy that isn't used or produced while using a mobile phone is.....

(a) chemical energy (b) light energy
(c) sound energy (d) potential energy

25 As energy transforms from one form to another, some of it is often lost as

(a) Light (b) Heat
(c) Sound (d) movement



26 The Curiosity Rover is operated with..... energy

(a) Sound (b) Solar
(c) Kinetic (d) thermal

27 The input energy when using the hair dryer is .....energy.

(a) Potential (b) Electrical
(c) Kinetic (d) light

Science

28 As energy transforms from one form to another, some of it is often lost as.....

(a) Light (b) Heat

(c) Sound (d) movement

Concept 3.2

29 The opposite figure represents the fuel indicator of a car, which referes to that the fuel tank.....



(a) is completely empty from gasoline.

(c) is completely full of gasoline.

(b) has half amount of gasoline

(d) has half amount of water

30 We can use the energy obtained from burning of wood directly for all of the following purposes, except.....

(a) warming houses (b) operating television

(c) cooking food (d) boiling water.

31 To move a car, the fuel must be.....the car engine at first.

(a) freezed inside (b) cooled inside

(c) burned inside (d) removed from





32 On burning fuel, we obtain.....

(a) sound energy. (b) potential energy

(c) electrical energy (d) thermal energy

33 Car engines can be operated by.....

(a) coal only. (b) coal and wood.

(c) gasoline only (d) gasoline and natural gas

34 Fossil fuels were formed under the Earth's surface from dead plants or animals, after a..... period of time

(a) very short (b) Short

(c) very long (d) long

Science

35 The two main types of fuel are....

(a) wood and coal (b) water and wind

(c) the Sun and the moon (d) fossil fuels and biofuels.

36 Smog causes irritation of .....of humans

(a) stomach and eyes (b) eyes and lungs

(c) small intestine (d) large intestine

37 Smog contains tiny particles that.....

(a) damage the human respiratory system

(b) damage the human digestive system

(c) help the human body grow up

(d) keep the human body healthy



38 Acid rain is formed when ..... combines with rain water

(a) oxygen gas (b) carbon dioxide gas

(c) Dust (d) sand

39 All the following are harmful effects of acid rain, except.....

(a) global warming

(b) death of trees

(c) change in the chemical nature of lakes.

(d) change in the chemical nature of the soil

40 We must .....fossil fuel at first, to obtain energy

(a) Wash (b) Cook

(c) Cool (d) burn

41 Fossil fuels need..... to be formed under the Earth's surface

(a) Five years (b) ten years

(c) hundreds of years (d) millions of years

Question 2

Put (✓) or (×) answers

Concept 3.1

1)	In the soap dispenser, potential energy is converted into kinetic energy	( )
2)	We can convert the solar energy into different forms of energy	( )
3)	As a result of friction between bike's tires and the road, kinetic energy is converted into chemical energy	( )
4)	There is wasted energy when energy is transformed from one form to another	( )
5)	In the electric blender, sound energy is converted into electrical energy and kinetic energy	( )
6)	Energy can be destroyed inside some devices	( )
7)	Curiosity is a vehicle that travels across the surface of the planet Mars	( )
8)	Energy may be destroyed inside different devices.	( )
9)	The electric bulb depends on chemical energy to operate	( )
10)	When pedalling a bike, the chemical energy in your body is converted into kinetic energy	( )
11)	Some of the converted energy does not help some devices do the function for which it was designed	( )
12)	Solar energy can be converted into several types of energy	( )
13)	Mars is located a few meters away from Earth	( )

Science

14)	Both the hair dryer and the washing machine depend on the same kind of energy to operate	( )
15)	The produced sound energy helps the hair dryer to do its function	( )
16)	Mars rover Curiosity cannot move without electrical energy	( )
17)	In electric power stations, sound energy produced from burning of coal is converted into electrical energy	( )
18)	Energy can't be changed from one form to another	( )
19)	Both the electric bulb and the electric heater produce thermal energy	( )
20)	The input energy in a hair dryer is the chemical energy	( )
21)	The spacecraft takes a bout five months, usually longer to reaches to mars.	( )
22)	The solar energy is a clean source of energy	( )
23)	The energy stored in battery is chemical one	( )
24)	Mars is located a few kilometres away from Earth	( )
25)	The cars toy need a source of energy	( )
26)	The energy stored in soap dispenser is potential energy	( )
27)	The energy produces from sun is light energy only	( )
28)	Light energy is produced only by electrical bulbs	( )

29)	The stored energy in the spring is kinetic energy	( )
30)	Energy cannot be created nor destroyed	( )
31)	In electrical iron, electric energy converts into thermal one.	( )
32)	In cell phone, electric energy stored in battery	( )
		( )
33)	As the speed of a car increases, the amount of used fuel decreases	( )
34)	We must check the amount of gasoline in the fuel tank before making a trip by a car	( )
35)	We have to reduce the usage of the Sun as a source of energy	( )
36)	Both coal and wood produce energy when they are burned	( )
37)	The rate of usage of oil is slower than its rate of formation under the Earth's surface.	( )
38)	We can make a liquid fuel from grass and wood chips	( )
39)	When gasoline burned in the car engine, thermal energy will be produced which is converted into kinetic energy to move the car	( )
40)	The Sun is the main source of forming both biofuel and fossil fuel.	( )
41)	Fuel is a source of energy for cars, as food for human	( )
42)	Biofuels are renewable fuels	( )

Concept 3.2

43)	Liquid fuels were formed from the remains of plants and animals that lived millions years	( )
44)	Coal is used in cooking food	( )
45)	Fossil fuels are from renewable sources of energy	( )
46)	Coals are biofuels.	( )
47)	Natural gas is used in cooking food	( )

Question 3 Complete the following sentences

Concept 3.1

1)	The idea of designing the Mars Rover depends on the idea of transforming (.....) energy into (.....) energy
2)	Batteries which put inside the toy is considered as (.....)
3)	The missions of mars depend on (.....) and(.....)
4)	The stored in food is (.....) energy
5)	The main source of energy in the Earth surface is(.....)
6)	The energy produced by hair dryer are (.....) and (.....)
7)	When wood is burned it releases (.....)
8)	When you push on the bike pedals with your legs (.....) energy converts into (.....)energy
9)	In a cell phone (.....) energy changes to other types of energy

Science

10)	The car which operated by a spring (.....)energy converts into (.....) energy
11)	During running (.....) energy converts into (.....) energy.
12)	In radio, the (.....) energy converts into (.....) energy.
13)	When you eat breakfast, (.....) energy stored from food
14)	The outputs in electric fan are (.....) and (.....) energies
15)	The outputs in electric bulb are (.....) and (.....) energies
16)	The energy source in the toy car is the (.....)
17)	It takes several (.....) for a spacecraft to travel from Earth to Mars surface.
18)	Some calculators depend on (.....) cells that use the solar energy coming from the (.....) to be operated
19)	The energy can be (.....) from one form to another
20)	Remote controlled toy car converts (.....) energy stored in its batteries into (.....) energy that is converted into (kinetic) energy which is used to move the car
21)	To operate an electric mixer we use(.....) energy
22)	When your cell phone is out of charge, you must recharge its (.....) to operate it again
23)	Some calculators can change solar energy into (.....) energy by using the sunlight

Science

24)	On planet Mars, Curiosity robot is operated by using (.....) energy from sunlight that is converted into (.....) energy used to recharge its batteries
25)	In many energy chains, some of the energy is wasted or lost in the form of (.....)
26)	The energies that are produced from the washing machine are (.....) energy and (.....) energy
27)	When you press the soap dispenser (.....)energy is converted into kinetic energy
28)	(.....) is produced from the remains of dead trees buried in Earth over millions of years
29)	Both coal and food store (.....) energy
30)	When you press on the soap dispenser,(.....) energy stored in its spring is converted into (.....) energy that moves the soap upward
31)	When you rub your hands together, the(.....)energy is converted into(.....)energy
32)	In any energy chain, some of the energy is wasted in the form of(.....)
33)	The light energy from the Sun is converted and stored inside plants in the form(.....)energy
34)	When you ride a bicycle, the(.....)energy stored in your food is converted into(.....)energy which causes the bicycle to move.
35)	Some kinetic energy of the bicycle is converted into(.....)energy due to the friction of its tires with the road
36)	Energy can neither be (.....) nor (.....) but only (.....) from one form to another

37)	The mobile phone converts chemical energy stored in its battery into electrical energy that is converted into (.....) energy and (.....) energy which are help it to do its function.
38)	By using the mobile phone for a long time, some energy is wasted in the form of (.....) energy
39)	The wasted energies that are produced from a vacuum cleaner are (.....) energy and (.....) energy
40)	The main function of a blender is done by the help of the produced(.....) energy
41)	The input energy in an electric bulb is (.....) energy, while its output energies are(.....)energy and also(.....)energy which doesn't help in its main function.
42)	The input energy when recharging a mobile phone is(.....) energy which is stored in the form of (.....) energy inside the phone battery
43)	The kinetic energy in a hand bell is considered as(.....)energy, while in an electric fan is considered as (.....)energy
44)	Gasoline is burned inside a car engine to produce (.....) energy that is converted into (.....) energy which causes the movement of the car
45)	Some forms of fuel can be used in cooking such as(.....) , (.....) and (.....)
46)	We can use some forms of fuel in warming houses such as(.....) And (.....)
47)	Water is considered from (.....) resources of energy, while coal and (.....) are from nonrenewable resources of energy

Concept 3.2

Science

48)	The natural resources that can be replaced shortly after being used are called (.....) resources of energy
49)	The natural resources that are consumed at a rate faster than they can be renewed are called(.....) resources of energy
50)	Different forms of fuel can be classified into two main types which are(.....) and (.....)
51)	The type of fuel that is produced from living organisms that can be planted is called(.....).such as wood and (.....)
52)	Wood and (.....) are examples of biofuel, while(.....)and(.....)are examples of fossil fuel
53)	Wood chips and grass can be used to make a (.....) biofuel.
54)	Oil formed from the decomposition of (.....) and as a result of extreme heat and (.....)
55)	The energy comes from a power plant comes through burned(.....) and (.....)
56)	From the type of fuels are (.....)
57)	Cars and trucks need (.....)to move
58)	The fuels is used in (.....) (.....)
59)	Fuels are (.....
60)	(.....) and (.....) can be used to make a liquid fuels
61)	Biofuels can be produced by (.....) , (.....)



Science

62)	The primary and main source of fuels is (.....)
63)	Examples of fossil fuels (.....) and (.....)
64)	(.....)is from renewable fuels
65)	(.....)and (.....) are from non-renewable sources of
66)	By burning fuels (.....) is released
67)	The remains of plants and animals turned into coal by (.....) and (.....) of Earth
68)	(.....) has a variety of negative impacts on environment
69)	In electric power station, we use fossil fuels such as oil and natural gas which are considered as (.....) resources of energy
70)	Water is considered as (.....)resource of energy, and we can use it to generate (.....)
71)	When fuel is burned in an electric power station, it produces (.....) energy to heat water
72)	Generators in electric power stations change (kinetic)energy into (.....)energy
73)	During generating electricity in electric power stations, the hot water produces (.....) which is used to turn turbines
74)	Turbines in electric power stations are turned by steam to produce (.....) energy required to operate the (.....)of the electric power stations
75)	Inside electric power stations, the burning of fuel produces (.....)energy while the movement of turbines produces (.....) energy

Question 4 Give reason

Concept 3.1

1) The energy can change its forms but it never goes away
- .....

2) You fell heat when you hold your hand near to light bulb
- .....

3) When you push on the bike pedals with your legs , heat energy is produced
- .....

4) There is a change in energy when burning wood
- .....

5) The body has energy inside it
- .....

6) Not all the energy that enters the energy chain completely reaches the device.
- .....

7) A remote-controlled toy car needs a battery to move from one place to another
- .....

8) There is an energy change when you press the spring of a soap dispenser
- .....

9) When you rub your hands together, you feel warm
- .....

10) You feel heat, when you put your hands near a lighted electric lamp.
- .....

11) The electrical energy that enters the hair dryer does not come out of the hair dryer in the same form of energy.
- .....

12) Sometimes the fuel indicator of a car goes down
- .....

13) Some calculators use the sunlight to operate.
- .....

14) The fuel is very important for different means of transportation.
- .....

15) The presence of batteries inside a battery powered clock.

- .....

16) Thermal energy in a mobile phone is considered as a wasted energy.

- .....

Concept 3.2

17) Generators are important in electric power stations

- .....

18) We must turn off lights that we do not need.

- .....

19) Smog of cars is very dangerous to human health.

- .....

20) Farmers must decrease the use of pesticides

- .....

21) Increase the burning of fossil fuel causes acid rain.

- .....

22) Global warming occurs due to the increase of burning coal and oil.

- .....

23) Acid rain has a bad effect on buildings in cities.

- .....

24) To keep the air clean, we must replace fossil fuels with renewable resources of energy.

- .....

25) Increasing the amount of carbon dioxide gas in the air could harm the environment

- .....

26) Fossil fuels are non-renewable sources of energy

- .....

27) Biofuels are renewable sources of energy

- .....

28) Sun is renewable source of energy

- .....

29) Using wood of trees as a fuel has negative effects on the environment.

- .....

30) Coal and gasoline are considered as nonrenewable resources of energy.

- .....

31) Gasoline is burned inside a car engine

- .....

32) Mars rover Curiosity operates for a long period of time on Mars without any need to be recharged.

- .....

Question 5 What happens ?

Concept 3.1

1) If batteries of remote-controlled toy car run out.

- .....

2) To the car fuel indicator if the amount of gasoline in a car decreases.

- .....

3) To the change of energy when you burn a piece of wood.

- .....

4) If solar calculators were exposed to the sunlight.

- .....



5) If you put your hands near the lighted lamp

- .....

6) If you use a mobile phone for a long time. (according to the wasted energy).

- .....

7) To the car movement if fuel runs out in a car

- .....

8) If Mars rover Curiosity didn't get any sunlight on Mars surface.

- .....

9) If you turn on an electric fan (according to the change of energy).

- .....

10) To the change of energy when you turn on the television

- .....

Science

11) If you shake a small bell with your hand. (according to the change of energy).

- .....

12) Hair dryer is operated

- .....

13) Cool is burned

- .....

14) Electrical heater is operated

- .....

15) You hold yours hand near to light bulb

- .....

16) You push on the bike petals

- .....

17) Turn on electric iron

- .....

Concept 3.2

18) To a generator that is connected to a damaged turbine in an electric power station.

- .....

19) To the movement of the turbine if the water in an electric power station is not heated

- .....

20) If pesticides mix with water of canals and rivers

- .....

21) If acid rain falls on buildings for a long period of time.

- .....

22) If people decrease burning fossil fuels

- .....

23) To the amount of fossil fuels if people don't conserve their usage

- .....

24) Cutting down trees

- .....

25) Making deforestion

- .....

26) Burning fuels

- .....

27) If people increase using the wood of trees as a source of fuel

- .....

28) If the remains of dead living organisms were buried under the Earth's surface over millions of years.

- .....

29) If the remains of sea animals are decomposed under the Earth's surface

- .....

Question 6 Write the scientific term each of the following

Concept 3.1

1)	It is a way to describe the energy flow that occurs when we use different devices.	(.....)
2)	The main source of energy in the Earth surface	(.....)
3)	The energy that comes in a device to be operated.	(.....)
4)	The main source of energy for most forms of energies on Earth	(.....)
5)	The energy used to play a drum.	(.....)
6)	The energy produced from batteries.	(.....)
7)	The energy stored inside a tree	(.....)
8)	A path that shows the energy flow form its source to the device	(.....)



9)	The energy that is produced from a device and doesn't help it do its main function.	(.....)
10)	robotic vehicle designed to explore the surface of Mars	(.....)
11)	The source of energy in some toys that stores chemical energy	(.....)
12)	The energy produced when the wood of trees is burned	(.....)
13)	The energy produced from playing a guitar	(.....)
14)	The energy stored in coal	(.....)
15)	A form of energy produced from the electric lamp and affects our eyes	(.....)
16)	Energy can neither be created nor destroyed, but only converted from one form into another	(.....)
17)	The energy that is stored in both batteries and food	(.....)
18)	The energy that is produced from the electric power stations and flows through wires	(.....)
19)	A form of energy that is produced from the electric heater and burning coal.	(.....)
20)	It is the main source of most forms of energy on the Earth's surface. Concept 3.2	(.....)
21)	It is any substance which produces thermal energy on burning	(.....)

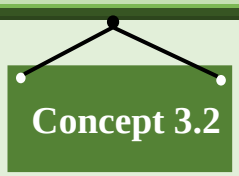
22)	Natural resources of energy, that take a short period of time to be renewed	(.....)
23)	Natural resources of energy that take a very long period of time to be formed.	(.....)
24)	It is a form of biofuel that can be made from some types of plants such as grass and wood chips	(.....)
25)	They are fuels that were formed from remains of dead animals and plants under the Earth's surface	(.....)
26)	It is a form of fossil fuel that was formed from remains of dead plants under the effect of extreme heat and pressure	(.....)
27)	It is a form of fossil fuel that was formed from dead marine animals	(.....)
28)	The substance that is produced from the remains of dead trees that buried deep in the Earth over millions of years.	(.....)

Question 7 Correct the underlined words

Concept 3.1

1)	Energy can neither be created nor destroyed, but only converted from one form to another, this is the law of consuming of energy	(.....)
2)	The consumed energy while burning some pieces of wood is the thermal energy.	(.....)
3)	Light energy is stored inside the battery of a mobile phone	(.....)
4)	Toy cars depend on fuel as a source of electrical energy	(.....)

Science

5)	Light energy, thermal energy and chemical energy are produced when a mobile phone is used	(.....)
6)	The solar energy produced from the moon can be converted into different forms of energy.	(.....)
7)	Curiosity is a robotic vehicle that is designed to explore the surface of moon.	(.....)
8)	Most of energy chains start with the moon	(.....)
9)	There is a stored thermal energy inside the food we eat	(.....)
10)	The input energy in a hair dryer is the chemical energy	(.....)
11)	Coal is the main source of most energies on the Earth's surface	(.....)
12)	Fuel is the substance that produces electrical energy on burning	(.....)
13)	We have to increase planting vegetables and fruits that need a large amount of water 	(.....)
14)	In houses, gasoline is used in cooking food as it is one of the oldest known biofuels.	(.....)
15)	The moon is the main source of both biofuel and fossil fuel	(.....)
16)	We can use some animals to make a liquid biofuel	(.....)
17)	The rate of usage of fossil fuels must be increased	(.....)

18)	Wood is a form of fossil fuels that can be used in houses	(.....)
19)	Water is a nonrenewable resource of energy that can be used as a fuel in cooking food and moving cars.	(.....)
20)	We can conserve oil by increasing the use of private vehicles	(.....)

Question 8 Vairous questions

Concept 3.1

1) Use the following words to complete the energy chains below. (You may use the same word more than once).

(Thermal - Chemical - Kinetic - Electrical - Sound - Light)

(1) The energy chain of burning some branches of a tree :

Solar energy → Converted into → (.....) energy → Converted into → (.....) energy and (.....) energy

(From the Sun) (Stored inside the tree) (When burning the wood of branches)

(2) The energy chain to operate electric blender

Solar energy → Converted into → (.....) energy → Converted into → (.....) energy and (.....) energy → Converted into → (.....) energy → Converted into → (.....energy And(.....)energy

(From the Sun) (Stored inside the coal from the remains of dead trees) (in electric power stations) (Transferred in electric wires)

Science

2] Look at the following figures, then complete the following sentences:

	
Figure (1)	Figure (2)

(1) Figure (1) stores (.....) energy

(2) Figure (2) needs a source that produces (.....) energy to be operated

(3) The energy chain that is produced due to inserting figure (1) inside figure (2) and turning it on is:

(.....) energy → Converted into → (.....) energy → Converted into → (.....) energy and (.....) energy

(Stored in figure 1) (In the wires inside figure (2)) (In the lamp of figure (2))

3] Look at the following figures, then complete the following energy chain :

		
Figure (1)	Figure (2)	Figure (3)
		
Figure (4)	Figure (5)	



Science

Energy in figure (...) **Converted into** Chemical energy stored in figure (..) **Converted into** Thermal energy and kinetic energy in figure (...)

(From the Sun)

(Stored inside the coal from the remains of dead trees)

(in electric power stations)

Converted into

Electrical energy that is travelled through figure (....) **Converted into** Thermal energy that is produced from the device in figure (.....)

4] Choose from column (B) what suits it in column (A):

(A) Form of fuel	(B) We can get it from
1. Wood 2. Oil 3. Coal 4. Liquid biofuels	a. wood chips and grass. b. cutting of trees c. decomposition of sea creatures underground d. decomposition of plants remains underground e. boiling water

(1)	(2)	(3)	(4) .....

5] Put each of the following words in front of the suitable sentence

[The Sun-Wood - Gasoline - Thermal energy]

(1) It is a form of fuel that is used in different means of transportation (.....)

(2) It is a form of fuel that is used in warming houses. (.....)

(3) It is a form of energy which is produced from burning fuel (.....)

(4) The main source of most energies on the Earth's surface. (.....)

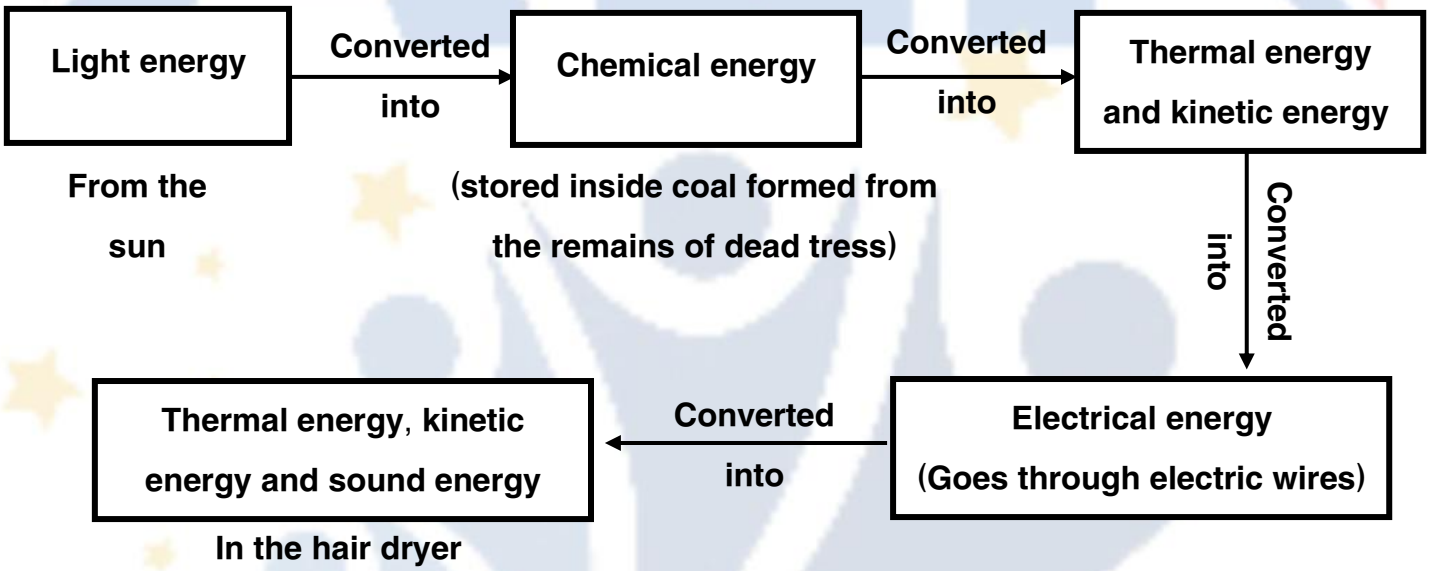


Science

6] Compare between biofuels and fossil fuels (the type of energy resources) , (definition) , (examples of each of them)

	Biofuels	fossil fuels
the type of energy resources	....	....
Definition	....	....
examples of each of them	....	....

7] Show the energy chain in hair dryer





حتى لو تعبت وطاقتك
خلصت كمل واوعى
تقف الطريق مخلصش
بس قرب
واحنا دلوقتى ف اهم
وقت استمر واتعب
علشان اللحظه اللي
بتمناها

مراجعات النـــخبة

بنك الأسئلة

Science Review for February 2025

Science
Answer form



Trust Academy
Online

Primary
4th

Second Term
2025

Prepared by:
Teacher. Salma Gharib

Science

Question 1 choose the correct answer

1. In the battery of a toy car.....energy is converted into electrical energy

(a) Chemical (b) Sound
(c) Light (d) thermal

2. The energy source in a toy car is the.....

(a) Engine (b) Tires
(c) Battery (d) fuel

3. It takes several..... for a spacecraft to travel from Earth to Mars.

(a) Seconds (b) Minutes
(c) Days (d) months

4. Plants can convert the light energy from the Sun into..... energy which is stored in the plant in the form of sugar.

(a) Sound (b) Electrical
(c) Chemical (d) kinetic

5. When you eat an apple, your body converts the..... energy stored in the apple into..... energy when you move.

(a) chemical- electrical (b) kinetic chemical
(c) Electricalchemical (d) chemical kinetic

6. Electric wires are made of

(a) Copper (b) Paper
(c) Wood (d) glass

7. In the electric water kettle, electrical energy is converted into.....energy that can heat the cold water inside it.

(a) Potential (b) Thermal
(c) Electrical (d) chemical

8. When you turn on a light bulb, the electrical energy travels through.....until reaching the bulb.

(a) Wires (b) Glass
(c) Wood (d) plastic

9. Some kinetic energy is converted into..... energy due to friction of bike's tire with the road.

(a) Light (b) Electrical
(c) Potential (d) thermal

10. Which form of energy is not used or produced when you turn on an electric bulb?.....

(a) Electrical (b) Light
(c) Thermal (d) Sound

11. When you use the hand bell, the..... energy is converted into sound energy

(a) Light (b) Thermal
(c) Kinetic (d) electric

12. During charging a mobile phone, the..... energy is converted into.....energy that is stored in the phone battery.

(a) electrical-chemical (b) chemical-thermal
(c) electrical-thermal (d) thermal chemical

13. The produced .....energy does not help the blender do its job.

(a) Chemical (b) Sound
(c) Light (d) potential

14. When a piece of coal is burned,..... energy is produced.

(a) Thermal (b) Solar
(c) Sound (d) potential

15. Some kinetic energy is converted into..... energy due to friction of bike's tire with the road.

(a) Light (b) Electrical
(c) Potential (d) thermal

16. Among the forms of fuel that are present in car fuel stations are.....

(a) gasoline and wood (b) natural gas and coal
(c) wood and coal. (d) gasoline and natural gas

17. The..... on the rover Curiosity convert solar energy into..... energy which is used to charge its batteries.

(a) solar panels – electrical
(b) batteries electrical
(c) solar panels – sound
(d) batteries sound

18. When a solar calculator is exposed to sunlight.....energy is converted into.....energy

(a) electrical – light
(b) light – solar
(c) sound – solar
(d) solar electrical

19. In the soap dispenser the ..... energy converted into..... energy .

(a) chemical – electrical
(b) Kinetic - chemical
(c) Electrical - chemical
(d) Potential - kinetic

20. The input energy in the fridge is .....energy

(a) Electrical
(b) Sound
(c) Chemical
(d) thermal

21. When you turn on a flashlight, the chemical energy stored in the battery is converted into.....energy that is converted into.....energy

(a) light – sound
(b) electrical – light
(c) kinetic electrical
(d) light - electrical

22. Thermal energy is not considered lost energy in the.....

(a) mobile phone
(b) washing machine
(c) electric fan
(d) electric heater

23. The spring of a spring toy car convert..... energy into ..... energy

(a) chemical – electrical
(b) Kinetic - chemical
(c) Electrical - chemical
(d) Potential - kinetic

24. The energy that isn't used or produced while using a mobile phone is.....

(a) chemical energy
(b) light energy
(c) sound energy
(d) potential energy

25. As energy transforms from one form to another, some of it is often lost as

(a) Light
(b) Heat
(c) Sound
(d) movement

26. The Curiosity Rover is operated with..... energy

(a) Sound (b) Solar

(c) Kinetic (d) thermal

27. The input energy when using the hair dryer is .....energy.

(a) Potential (b) Electrical

(c) Kinetic (d) light

28. As energy transforms from one form to another, some of it is often lost as.....

(a) Light (b) Heat

(c) Sound (d) movement

Concept 3.2

29. The opposite figure represents the fuel indicator of a car, which referes to that the fuel tank.....



(a) is completely empty from gasoline.

(c) is completely full of gasoline.

(b) has half amount of gasoline

(d) has half amount of water

30. We can use the energy obtained from burning of wood directly for all of the following purposes, except.....

(a) warming houses (b) operating television

(c) cooking food (d) boiling water.

31. To move a car, the fuel must be.....the car engine at first.



(a) freezed inside (b) cooled inside

(c) burned inside (d) removed from

32. On burning fuel, we obtain.....

(a) sound energy. (b) potential energy

(c) electrical energy (d) thermal energy

33. Car engines can be operated by.....

(a) coal only. (b) coal and wood.

(c) gasoline only (d) gasoline and natural gas

Science

34. Fossil fuels were formed under the Earth's surface from dead plants or animals, after a..... period of time

(a) very short (b) Short
(c) very long (d) long

35. The two main types of fuel are....

(a) wood and coal (b) water and wind
(c) the Sun and the moon (d) fossil fuels and biofuels.

36. Smog causes irritation of .....of humans

(a) stomach and eyes (b) eyes and lungs
(c) small intestine (d) large intestine



37. Smog contains tiny particles that.....

(a) damage the human respiratory system
(b) damage the human digestive system
(c) help the human body grow up
(d) keep the human body healthy

38. Acid rain is formed when ..... combines with rain water

(a) oxygen gas (b) carbon dioxide gas
(c) Dust (d) sand

39. All the following are harmful effects of acid rain, except.....

(a) global warming
(b) death of trees
(c) change in the chemical nature of lakes.
(d) change in the chemical nature of the soil

40. We must .....fossil fuel at first, to obtain energy

(a) Wash (b) Cook
(c) Cool (d) burn

41. Fossil fuels need..... to be formed under the Earth's surface

(a) Five years (b) ten years
(c) hundreds of years (d) millions of years

Question 2

Put (✓) or (×) answers

Concept 3.1

1)	In the soap dispenser, potential energy is converted into kinetic energy	✓
2)	We can convert the solar energy into different forms of energy	✓
3)	As a result of friction between bike's tires and the road, kinetic energy is converted into chemical energy	×
4)	There is wasted energy when energy is transformed from one form to another	✓
5)	In the electric blender, sound energy is converted into electrical energy and kinetic energy	×
6)	Energy can be destroyed inside some devices	×
7)	Curiosity is a vehicle that travels across the surface of the planet Mars	✓
8)	Energy may be destroyed inside different devices.	×
9)	The electric bulb depends on chemical energy to operate	×
10)	When pedalling a bike, the chemical energy in your body is converted into kinetic energy	✓
11)	Some of the converted energy does not help some devices do the function for which it was designed	✓
12)	Solar energy can be converted into several types of energy	✓
13)	Mars is located a few meters away from Earth	×

Science

14)	Both the hair dryer and the washing machine depend on the same kind of energy to operate	✓
15)	The produced sound energy helps the hair dryer to do its function	×
16)	Mars rover Curiosity cannot move without electrical energy	✓
17)	In electric power stations, sound energy produced from burning of coal is converted into electrical energy	×
18)	Energy can't be changed from one form to another	×
19)	Both the electric bulb and the electric heater produce thermal energy	✓
20)	The input energy in a hair dryer is the chemical energy	×
21)	The spacecraft takes a bout five months, usually longer to reaches to mars.	×
22)	The solar energy is a clean source of energy	✓
23)	The energy stored in battery is chemical one	✓
24)	Mars is located a few kilometres away from Earth	×
25)	The cars toy need a source of energy	✓
26)	The energy stored in soap dispenser is potential energy	✓
27)	The energy produces from sun is light energy only	×
28)	Light energy is produced only by electrical bulbs	×



29)	The stored energy in the spring is kinetic energy	✗
30)	Energy cannot be created nor destroyed	✓
31)	In electrical iron, electric energy converts into thermal one.	✓
32)	In cell phone, electric energy stored in battery	✗
33)	As the speed of a car increases, the amount of used fuel decreases — Concept 3.2	✗
34)	We must check the amount of gasoline in the fuel tank before making a trip by a car	✓
35)	We have to reduce the usage of the Sun as a source of energy	✗
36)	Both coal and wood produce energy when they are burned	✓
37)	The rate of usage of oil is slower than its rate of formation under the Earth's surface.	✗
38)	We can make a liquid fuel from grass and wood chips	✓
39)	When gasoline burned in the car engine, thermal energy will be produced which is converted into kinetic energy to move the car	✓
40)	The Sun is the main source of forming both biofuel and fossil fuel.	✓
41)	Fuel is a source of energy for cars, as food for human	✓
42)	Biofuels are renewable fuels	✓

43)	Liquid fuels were formed from the remains of plants and animals that lived millions years	✗
44)	Coal is used in cooking food	✓
45)	Fossil fuels are from renewable sources of energy	✗
46)	Coals are biofuels.	✗
47)	Natural gas is used in cooking food	✓



Question 3 Complete the following sentences

Concept 3.1

1)	The idea of designing the Mars Rover depends on the idea of transforming (Solar) energy into (Kinetic) energy
2)	Batteries which put inside the toy is considered as (energy source)
3)	The missions of mars depend on (vehicles) and(robots)
4)	The stored in food is (Chemical) energy
5)	The main source of energy in the Earth surface is(The sun)
6)	The energy produced by hair dryer are (Thermal energy) and (kinetic energy)
7)	When wood is burned it releases (thermal energy)
8)	When you push on the bike pedals with your legs (chemical) energy converts into (kinetic)energy
9)	In a cell phone (electrical) energy changes to other types of energy

Science

10)	The car which operated by a spring (Potential)energy converts into (kinetic) energy
11)	During running (chemical) energy converts into (kinetic) energy.
12)	In radio, the (electrical) energy converts into (sound) energy.
13)	When you eat breakfast, (chemical) energy stored from food
14)	The outputs in electric fan are (Kinetic) and (sound) energies
15)	The outputs in electric bulb are (Light) and (thermal) energies
16)	The energy source in the toy car is the (Battery)
17)	It takes several (Months) for a spacecraft to travel from Earth to Mars surface.
18)	Some calculators depend on (Solar) cells that use the solar energy coming from the (Sun) to be operated
19)	The energy can be (converted) from one form to another
20)	Remote controlled toy car converts (chemical) energy stored in its batteries into (electrical) energy that is converted into (kinetic) energy which is used to move the car
21)	To operate an electric mixer we use(electrical) energy
22)	When your cell phone is out of charge, you must recharge its (battery) to operate it again
23)	Some calculators can change solar energy into (electrical) energy by using the sunlight



Science

24)	On planet Mars, Curiosity robot is operated by using (solar) energy from sunlight that is converted into (electrical) energy used to recharge its batteries
25)	In many energy chains, some of the energy is wasted or lost in the form of (Heat)
26)	The energies that are produced from the washing machine are (kinetic) energy and (sound) energy
27)	When you press the soap dispenser (potential)energy is converted into kinetic energy
28)	(Coal) is produced from the remains of dead trees buried in Earth over millions of years
29)	Both coal and food store (chemical) energy
30)	When you press on the soap dispenser,(potential) energy stored in its spring is converted into (Kinetic) energy that moves the soap upward
31)	When you rub your hands together, the(kinetic)energy is converted into(thermal)energy
32)	In any energy chain, some of the energy is wasted in the form of(heat)
33)	The light energy from the Sun is converted and stored inside plants in the form(chemical)energy
34)	When you ride a bicycle, the(chemical)energy stored in your food is converted into(kinetic)energy which causes the bicycle to move.
35)	Some kinetic energy of the bicycle is converted into(thermal)energy due to the friction of its tires with the road
36)	Energy can neither be (Created) nor (destroyed) but only (converted) from one form to another

37)	The mobile phone converts chemical energy stored in its battery into electrical energy that is converted into (light) energy and (sound) energy which are help it to do its function.
38)	By using the mobile phone for a long time, some energy is wasted in the form of (thermal) energy
39)	The wasted energies that are produced from a vacuum cleaner are (sound) energy and (thermal) energy
40)	The main function of a blender is done by the help of the produced(kinetic) energy
41)	The input energy in an electric bulb is (electrical) energy, while its output energies are(light)energy and also(thermal)energy which doesn't help in its main function.
42)	The input energy when recharging a mobile phone is(electrical) energy which is stored in the form of (chemical) energy inside the phone battery
43)	The kinetic energy in a hand bell is considered as(input)energy, while in an electric fan is considered as (output)energy
44)	Gasoline is burned inside a car engine to produce (thermal) energy that is converted into (kinetic) energy which causes the movement of the car
45)	Some forms of fuel can be used in cooking such as(coal) , (natural gas) and (wood)
46)	We can use some forms of fuel in warming houses such as(coal) And (wood)
47)	Water is considered from (renewable) resources of energy, while coal and (natural gas) are from nonrenewable resources of energy

Concept 3.2

Science

48)	The natural resources that can be replaced shortly after being used are called (renewable) resources of energy
49)	The natural resources that are consumed at a rate faster than they can be renewed are called(nonrenewable) resources of energy
50)	Different forms of fuel can be classified into two main types which are(biofuels) and (fossil fuels)
51)	The type of fuel that is produced from living organisms that can be planted is called(biofuel).such as wood and (charcoal)
52)	Wood and (charcoal) are examples of biofuel, while(oil)and(liquid)are examples of fossil fuel
53)	Wood chips and grass can be used to make a (liquid) biofuel.
54)	Oil formed from the decomposition of (sea creatures) and as a result of extreme heat and (pressure)
55)	The energy comes from a power plant comes through burned(Coal) and (Natural gas)
56)	From the type of fuels are (Coal - Natural gas – wood)
57)	Cars and trucks need (Fuel)to move
58)	The fuels is used in (Warming our houses) (Supply cars with energy to move)
59)	Fuels are (any substances that produce thermal energy when they're burned
60)	(grass) and (wood chips) can be used to make a liquid fuels
61)	Biofuels can be produced by (living organisms) , (plants)

62)	The primary and main source of fuels is (sun)
63)	Examples of fossil fuels (Oil) and (natural gas)
64)	(Bio fuels)is from renewable fuels
65)	(Coal)and (natural gas) are from non-renewable sources of
66)	By burning fuels (Thermal energy) is released
67)	The remains of plants and animals turned into coal by (Heat) and (pressure) of Earth
68)	(Deforestation) has a variety of negative impacts on environment
69)	In electric power station, we use fossil fuels such as oil and natural gas which are considered as (nonrenewable) resources of energy
70)	Water is considered as (renewable)resource of energy, and we can use it to generate (electricity)
71)	When fuel is burned in an electric power station, it produces (thermal) energy to heat water
72)	Generators in electric power stations change (kinetic)energy into (electrical)energy
73)	During generating electricity in electric power stations, the hot water produces (steam) which is used to turn turbines
74)	Turbines in electric power stations are turned by steam to produce (kinetic) energy required to operate the (generators)of the electric power stations
75)	Inside electric power stations, the burning of fuel produces (thermal)energy while the movement of turbines produces (kinetic) energy



Question 4 Give reason

Concept 3.1

1) The energy can change its forms but it never goes away
   - Because of law of conservation
2) You fell heat when you hold your hand near to light bulb
   - Because some of the electrical energy is also converted into thermal energy
3) When you push on the bike pedals with your legs , heat energy is produced
   - Because some of the kinetic energy is converted into thermal energy due to the friction between road and the tires
4) There is a change in energy when burning wood
   - Because the chemical energy stored in wood is converted into thermal energy and light energy
5) The body has energy inside it
   - Because The body has chemical energy that stored in food which is converted into kinetic energy when we move
6) Not all the energy that enters the energy chain completely reaches the device.
   - Because some of the energy is wasted in the form of heat.
7) A remote-controlled toy car needs a battery to move from one place to another
   - Because the chemical energy stored in battery is converted into electrical energy that changes into kinetic energy that makes the car move.
8) There is an energy change when you press the spring of a soap dispenser
   - Because the potential energy stored in its spring is converted into kinetic energy that moves the soap upward
9) When you rub your hands together, you feel warm
   - Because the kinetic energy is converted into thermal energy
10) You feel heat, when you put your hands near a lighted electric lamp.
   - Because some of the electrical energy is converted into thermal energy.
11) The electrical energy that enters the hair dryer does not come out of the hair dryer in the same form of energy.
   - Because the electrical energy is converted into kinetic, thermal and sound energies

12) Sometimes the fuel indicator of a car goes down

- Because the fuel in the car tank runs out.

13) Some calculators use the sunlight to operate.

- Because the energy of sunlight (solar energy) is converted into electrical energy which operate the calculators

14) The fuel is very important for different means of transportation.

- Because fuel is burned inside the engines to produce thermal energy that is changed into kinetic energy which causes the different means of transportation to move.

15) The presence of batteries inside a battery powered clock.

- Because battery is the source of energy where the chemical energy is converted into electrical energy to operate the clock

16) Thermal energy in a mobile phone is considered as a wasted energy.

- Because it doesn't help the mobile phone to do its main function.

Concept 3.2

17) Generators are important in electric power stations

- Because generators convert kinetic energy into electrical energy.

18) We must turn off lights that we do not need.

- To conserve the electricity

19) Smog of cars is very dangerous to human health.

- Because the smog of cars causes irritation of human's eyes and lungs

20) Farmers must decrease the use of pesticides

- Because pesticides cause the pollution of soil and water.

21) Increase the burning of fossil fuel causes acid rain.

- Because burning fossil fuel produces carbon dioxide gas which combines with water in air forming acid rain.

22) Global warming occurs due to the increase of burning coal and oil.

- Because burning coal and oil produces carbon dioxide gas which forms a layer in atmosphere that traps heat on Earth causing rise in Earth's temperature that causes global warming

23) Acid rain has a bad effect on buildings in cities.

- Because acid rain causes dissolving of some rocks including the rocks used for building.

24) To keep the air clean, we must replace fossil fuels with renewable resources of energy.

- Because when fossil fuels are burned, they release gases that cause air pollution

25) Increasing the amount of carbon dioxide gas in the air could harm the environment

- Because it causes global warming and acid rain



26) Fossil fuels are non-renewable sources of energy

- Because they are used faster than they can be renewed

27) Biofuels are renewable sources of energy

- Because it can be replaced soon after it is used

28) Sun is renewable source of energy

- Because it (solar energy) can be replaced soon after it is used

29) Using wood of trees as a fuel has negative effects on the environment.

- Because continuity of cutting down trees leads to deforestation

30) Coal and gasoline are considered as nonrenewable resources of energy.

- Because they are used faster than they can be renewed.

31) Gasoline is burned inside a car engine

- To produce thermal energy which changes into kinetic energy that causes the car to move

32) Mars rover Curiosity operates for a long period of time on Mars without any need to be recharged.

- Due to the presence of solar panels that converts the solar energy into electrical energy which recharge its batteries.

Question 5 What happens ?

Concept 3.1

30) If batteries of remote-controlled toy car run out.

- The car will not move, so we can recharge its batteries by connecting toy car to a nearby charger or replacing old batteries with new ones

31) To the car fuel indicator if the amount of gasoline in a car decreases.

- The car fuel indicator will go down.

32) To the change of energy when you burn a piece of wood.

- The chemical energy is converted into thermal energy and light energy

33) If solar calculators were exposed to the sunlight.

- Solar energy is converted into electrical energy that operate them.

34) If you put your hands near the lighted lamp

- I feel warm, because some electrical energy is converted into thermal energy.

35) If you use a mobile phone for a long time. (according to the wasted energy).

- Some energy is wasted as thermal energy



36) To the car movement if fuel runs out in a car

- The car movement decreases gradually until it stops.

37) If Mars rover Curiosity didn't get any sunlight on Mars surface.

- It cannot be operated, because it depends on sunlight (solar energy) to recharge its batteries.

38) If you turn on an electric fan (according to the change of energy).

- The electrical energy is converted into kinetic energy which do the main function of fan and sound energy as wasted energy

39) To the change of energy when you turn on the television

- The electrical energy is converted into sound energy and light energy

40) If you shake a small bell with your hand. (according to the change of energy).

- The kinetic energy is converted into sound energy.

41) Hair dryer is operated

- The electrical energy is converted into thermal energy, kinetic energy and sound energy

42) Cool is burned

- It will produce thermal energy that changed into kinetic energy which is converted into electrical energy .

43) Electrical heater is operated

- Electrical energy is converted into thermal energy

44) You hold yours hand near to light bulb

- You will feel heat Because some of the electrical energy is also converted into thermal energy

45) You push on the bike petals

- Chemical energy is converted into kinetic energy which causes the bike to move and some of the kinetic energy is converted into thermal energy due to the friction between road and the tires

46) Turn on electric iron

- The electricity will flow through wires until it reaches the device it will convert into thermal energy

Concept 3.2

47) To a generator that is connected to a damaged turbine in an electric power station.

- Turbine cannot produce kinetic energy, so the generator will not turn and don't generate electricity.

48) To the movement of the turbine if the water in an electric power station is not heated

- Water will not produce steam, so the turbine will not move and will not produce kinetic energy

49) If pesticides mix with water of canals and rivers

- It causes the pollution of water and soil.

50) If acid rain falls on buildings for a long period of time.

- It causes dissolving of the rocks used for building



51) If people decrease burning fossil fuels

- The amount of carbon dioxide gas in air will decrease.

52) To the amount of fossil fuels if people don't conserve their usage

- Fossil fuel will run out on the Earth.

53) Cutting down trees

- Cutting down trees as a faster rate than they can grow leads to deforestation which has a negative effect on the environment

54) Making deforestion

- Wood will run out because deforestation has a negative effects on the environment

55) Burning fuels

- They will produce thermal energy

56) If people increase using the wood of trees as a source of fuel

- It leads to deforestation, which causes negative effects on the environment

57) If the remains of dead living organisms were buried under the Earth's surface over millions of years.

- They are converted into fossil fuels

58) If the remains of sea animals are decomposed under the Earth's surface

- They will form oil or natural gas.

Question 6 Write the scientific term each of the following

Concept 3.1

29)	It is a way to describe the energy flow that occurs when we use different devices.	Energy chain
30)	The main source of energy in the Earth surface	The sun
31)	The energy that comes in a device to be operated.	Input energy
32)	The main source of energy for most forms of energies on Earth	The Sun
33)	The energy used to play a drum.	Kinetic energy
34)	The energy produced from batteries.	Electrical energy
35)	The energy stored inside a tree	Chemical energy

Science

36)	A path that shows the energy flow form its source to the device	Energy chemical
37)	The energy that is produced from a device and doesn't help it do its main function.	Wasted energy
38)	robotic vehicle designed to explore the surface of Mars	Mars rover Curiosity
39)	The source of energy in some toys that stores chemical energy	Battery
40)	The energy produced when the wood of trees is burned	Thermal energy
41)	The energy produced from playing a guitar	Sound energy
42)	The energy stored in coal	Chemical energy
43)	A form of energy produced from the electric lamp and affects our eyes	Light energy
44)	Energy can neither be created nor destroyed, but only converted from one form into another	The law of conservation of energy.
45)	The energy that is stored in both batteries and food	Chemical energy
46)	The energy that is produced from the electric power stations and flows through wires	Electrical energy
47)	A form of energy that is produced from the electric heater and burning coal.	Thermal energy

Concept 3.2

48)	It is the main source of most forms of energy on the Earth's surface.	The Sun
49)	It is any substance which produces thermal energy on burning	Fuel
50)	Natural resources of energy, that take a short period of time to be renewed	Renewable resources of energy
51)	Natural resources of energy that take a very long period of time to be formed.	Nonrenewable resources of energy
52)	It is a form of biofuel that can be made from some types of plants such as grass and wood chips	Liquid fuel
53)	They are fuels that were formed from remains of dead animals and plants under the Earth's surface	Fossil fuels
54)	It is a form of fossil fuel that was formed from remains of dead plants under the effect of extreme heat and pressure	Coal
55)	It is a form of fossil fuel that was formed from dead marine animals	Oil
56)	The substance that is produced from the remains of dead trees that buried deep in the Earth over millions of years.	Coal

Question 7 Correct the underlined words

Concept 3.1

21)	Energy can neither be created nor destroyed, but only converted from one form to another, this is the law of consuming of energy	Conservation

22)	The consumed energy while burning some pieces of wood is the thermal energy.	Chemical
23)	Light energy is stored inside the battery of a mobile phone	Chemical
24)	Toy cars depend on fuel as a source of electrical energy	Batteries
25)	Light energy, thermal energy and chemical energy are produced when a mobile phone is used	Sound
26)	The solar energy produced from the moon can be converted into different forms of energy.	Sun
27)	Curiosity is a robotic vehicle that is designed to explore the surface of moon.	Mars
28)	Most of energy chains start with the moon	Sun
29)	There is a stored thermal energy inside the food we eat	Chemical
30)	The input energy in a hair dryer is the chemical energy	Electrical
31)	Coal is the main source of most energies on the Earth's surface	Sun
32)	Fuel is the substance that produces electrical energy on burning	Thermal energy
33)	We have to increase planting vegetables and fruits that need a large amount of water	a small
34)	In houses, gasoline is used in cooking food as it is one of the oldest known biofuels.	wood

Concept 3.2

35)	The moon is the main source of both biofuel and fossil fuel	The Sun
36)	We can use some animals to make a liquid biofuel	plants
37)	The rate of usage of fossil fuels must be increased	decreased
38)	Wood is a form of fossil fuels that can be used in houses	biofuels
39)	Water is a nonrenewable resource of energy that can be used as a fuel in cooking food and moving cars.	Natural gas
40)	We can conserve oil by increasing the use of private vehicles	reducing

Question 8 Vairous questions

Concept 3.1

1) Use the following words to complete the energy chains below. (You may use the same word more than once).

(Thermal - Chemical - Kinetic - Electrical - Sound - Light)

(1) The energy chain of burning some branches of a tree :

Solar energy → Converted into → (Chemical) energy → Converted into → (Thermal) energy and (light) energy

(From the Sun) (Stored inside the tree) (When burning the wood of branches)

(2) The energy chain to operate electric blender



Science

Solar energy (From the Sun) → Converted into → (Chemical) energy (Stored inside the coal from the remains of dead trees) → Converted into → (Thermal) energy and (light) energy (in electric power stations) → Converted into → (Electrical) energy (Transferred in electric wires) → Converted into → (Kinetic energy And(sound)energy

2) Look at the following figures, then complete the following sentences:

	
Figure (1)	Figure (2)

(1) Figure (1) stores (chemical) energy

(2) Figure (2) needs a source that produces (electrical) energy to be operated

(3) The energy chain that is produced due to inserting figure (1) inside figure (2) and turning it on is:

(chemical) energy (Stored in figure 1) → Converted into → (electrical) energy (In the wires inside figure (2)) → Converted into → (light) energy and (thermal) energy (In the lamp of figure (2))



3] Look at the following figures, then complete the following energy chain :

		
Figure (1)	Figure (2)	Figure (3)
		
Figure (4)	Figure (5)	

Energy in figure (2) → Converted into → Chemical energy stored in figure (4) → Converted into → Thermal energy and kinetic energy in figure (1) → Converted into → Electrical energy that is travelled through figure (3) → Converted into → Thermal energy that is produced from the device in figure (5)

(From the Sun)

(Stored inside the coal from the remains of dead trees)

(in electric power stations)

4] Choose from column (B) what suits it in column (A):

(A) Form of fuel	(B) We can get it from
1. Wood 2. Oil 3. Coal 4. Liquid biofuels	a. wood chips and grass. b. cutting of trees c. decomposition of sea creatures underground d. decomposition of plants remains underground e. boiling water

(1) (b)	(2) (c)	(3) (d)	(4) (a)

5] Put each of the following words in front of the suitable sentence

[The Sun-Wood - Gasoline - Thermal energy]

(1) It is a form of fuel that is used in different means of transportation (Gasoline)

(2) It is a form of fuel that is used in warming houses. (Wood)

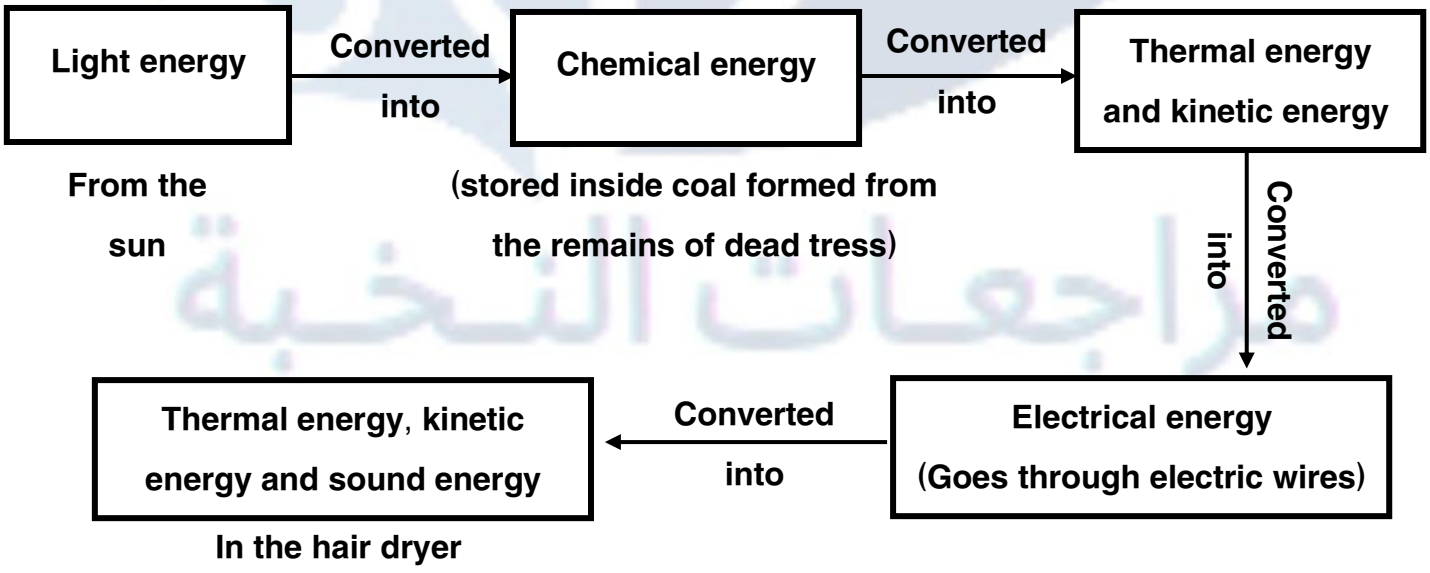
(3) It is a form of energy which is produced from burning fuel (Thermal energy)

(4) The main source of most energies on the Earth's surface. (The sun)

6] Compare between biofuels and fossil fuels (the type of energy resources) , (definition) , (examples of each of them)

	Biofuels	fossil fuels
the type of energy resources	renewable resources	nonrenewable resource
definition	They are fuels made from living organisms that can be planted (such as plants)	They are fuels that formed from the remains of plants and animals that were buried and decomposed over a very long period of time
examples of each of them	Such as charcoal , wood and some types of plants such as grass , corn and wood	Such as oil , natural gas and coal

7] Show the energy chain in hair dryer



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