

## تم تحميل هذا الملف من موقع المناهج الإماراتية



## أسئلة مراجعة شاملة وفق منهج انسابير

موقع المناهج ← المناهج الإماراتية ← الصف الرابع ← علوم ← الفصل الثاني ← ملفات متنوعة ← الملف

تاريخ إضافة الملف على موقع المناهج: 22:31:32 2025-03-09

ملفات اكتب للمعلم اكتب للطالب الاختبارات الكترونية الاختبارات ا حلول اعروض بوربوينت أوراق عمل  
منهج انجليزي املخصات وتقارير ا مذكرات وبنوك الامتحان النهائي للمدرس

المزيد من مادة  
علوم:

إعداد: Mohammed Hala

## التواصل الاجتماعي بحسب الصف الرابع



صفحة المناهج  
الإماراتية على  
فيسبوك

الرياضيات

اللغة الانجليزية

اللغة العربية

التربية الاسلامية

المواد على تلغرام

## المزيد من الملفات بحسب الصف الرابع والمادة علوم في الفصل الثاني

أوراق عمل مراجعة للامتحان النهائي متبوعة بالإجابات

1

نموذج اختبار تدريبي متبوع بالإجابات منهج انسابير

2

أسئلة الامتحان النهائي القسم الورقي منهج انسابير

3


حل نموذج تدريبي لاختبار نهاية الفصل

4

نموذج تدريبي لاختبار نهاية الفصل

5

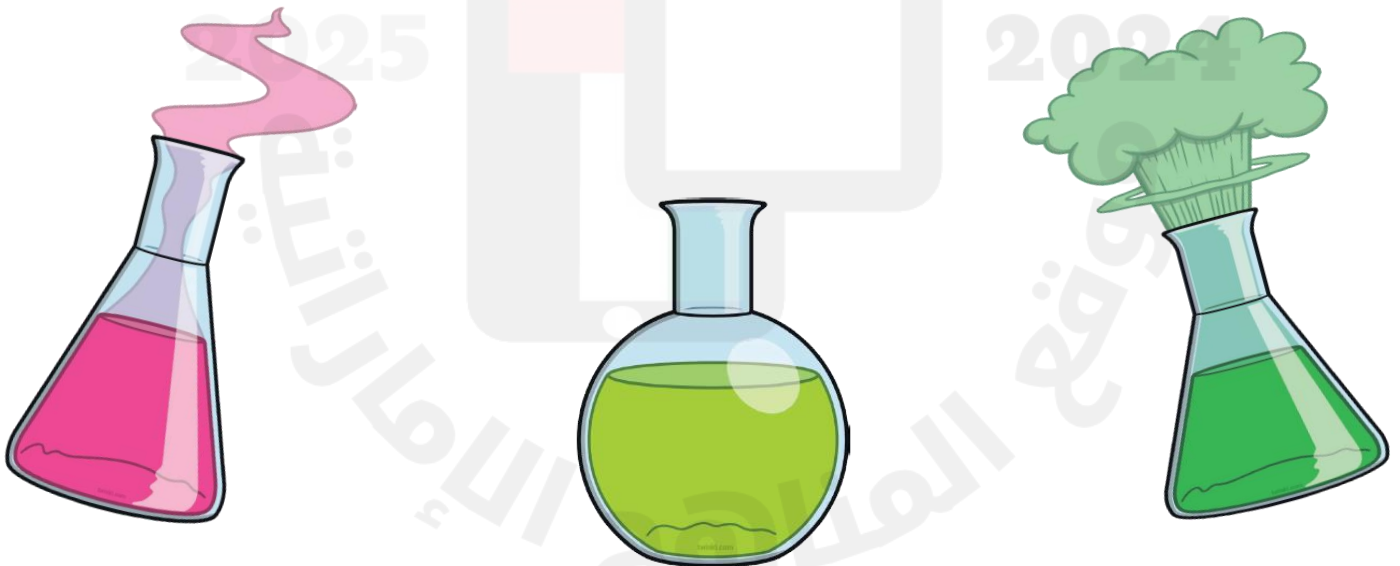
Name: \_\_\_\_\_



# SCIENCE

## EOT 2 Revision

### Inspire Science – Grade 4



Ms. Hala Mohammed - Al Ghaith School

2024 – 2025

## Lesson 1: Types of Energy

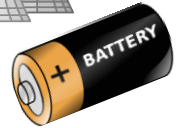
1. What are 2 examples of **potential energy**?

a. Light energy

b. Thermal energy

c. Chemical energy

d. Nuclear energy



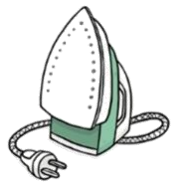
2. What is the **energy transformation** an iron makes?

a. Light → Thermal

b. Electrical → Light

c. Electrical → Thermal

d. Electrical → Sound



3. Why are there **no sounds** heard **in space**?

a. Because there is no light in space

b. Because there is no medium in space (no solids, liquids and gases)

c. Because there is air in space

d. Because the space is too far away



4. **Sounds** are made when things:

a. Vibrate

b. Are pulled

c. Move up and down

d. Are pushed together

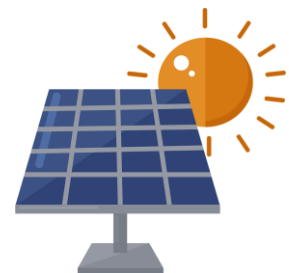
5. What do **solar cells** do?

a. They change light energy → Electricity

b. They change light energy → Chemical energy

c. They change sound energy → Light energy

d. They change Electrical energy → Light energy



6. What energies do **fireworks** have/give off? [Choose 4]

- a. Nuclear energy      b. Light energy      c. Chemical energy  
c. Thermal energy      d. Electrical energy      e. Sound energy



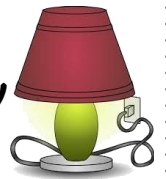
7. Dan made the following observation: **The radio sitting in the table made the water in my glass move.** **What can he conclude?**

- a. Some types of energy cannot transfer through water  
b. The sound energy of the radio transferred to the water  
c. The electrical energy of the radio transferred to the water  
d. Only light can move through water



8. Which statement about a **lamp** is correct?

- a. Changes heat → electricity      b. Changes light → electricity  
c. Changes electricity → light + thermal

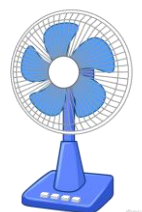


9. You are asked to design a product that will change '**electrical energy → thermal energy**'. **Which device** would best suit this description?

- a. Fan      b. TV      c. Alarm clock      d. Hairdryer

10. What is the **energy transformation** that happens when you turn a **fan** on?

- a. Electrical → motion (kinetic)      b. Electrical → heat  
c. Electrical → Light






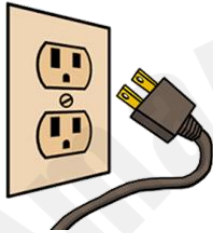


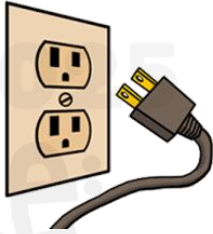


11. Identify each picture as 'energy transfer' or 'energy transformation'.

 _____	 _____
 _____	 _____
 _____	 _____

12. Name 3 forms of kinetic energy.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

13. Use the word bank below to describe each energy transformation.

Light energy	Chemical energy	Sound energy	Thermal energy	Electrical energy
				
	<input type="text"/>			<input type="text"/>
				
	<input type="text"/>			<input type="text"/>
				
	<input type="text"/>			<input type="text"/>
				<input type="text"/>

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14. Name the form of energy:

Thermal – Nuclear – Sound – Electrical – Chemical – Light



15. Classify each form of energy above as kinetic or potential.

Kinetic energy	Potential energy
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

16. Circle all boxes that show that **energy is moving from one place to another**.

thunder claps loudly	a light bulb lights up	a car crashes into a wall
ice cubes stay frozen in the freezer	an ice cube melts in the hot sun	an electric fan turns
hot water cools off	wood burns in a fireplace	a book sits on a shelf
a car horn beeps	a baseball bat hits a ball	a bowling ball knocks over pins

What kinds of **evidence** show that **energy is moving** from one place to another?

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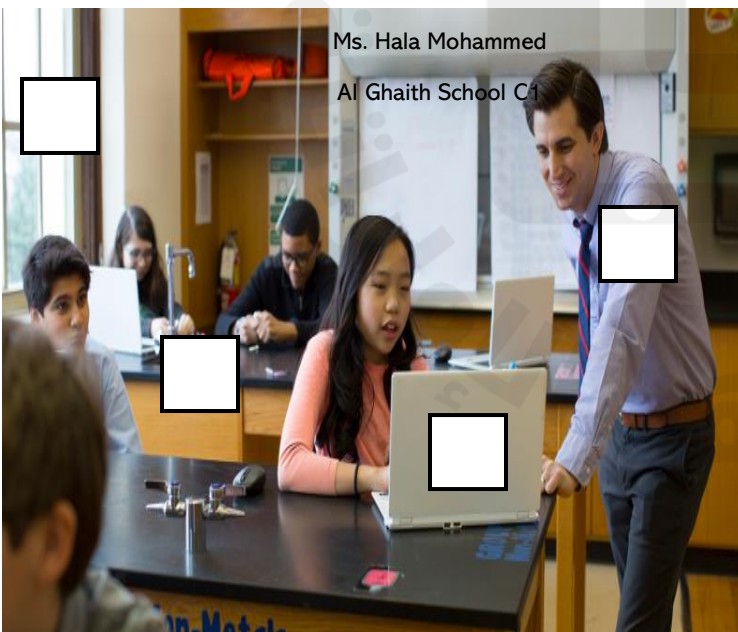


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17. Read the descriptions then **label the photo**:



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**1 Window with Sunlight:**

The radiation from the Sun is converted to heat and light in the classroom.

**2 Teacher Talking:**

The teacher transforms chemical energy from food into kinetic energy and sound energy.

**3 Computer:**

The computer transforms electrical energy into light, sound, and thermal energy.

**4 Student Building a Model:**

The student transforms chemical energy from food into kinetic energy when he uses his hands to build a model.



18. Read the table below, then **choose the best example** to fill in the blank box.

Chemical → Electrical	Battery powered flashlight
Light → Thermal	Sunlight heats the sidewalk
Motion → Sound	_____

- a. Burning candle heats up
- b. Plucked guitar strings makes noise
- c. Ball rolls down hill
- d. Rubbing warms hands

19. What types of **energy transfers** and **transformations** that happen when you **flip a light switch** at your house?




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20. Identify the **energy transformations** in each of the pictures below:

 Matchstick _____ → _____ and _____	 Photosynthesis _____ → _____
 Toaster _____ → _____	 Solar calculator _____ → _____

## Lesson 2: Sound and Light

21. **Light** energy is:

a. Kinetic energy

b. Potential energy



22. **Sound** energy is:

a. Kinetic energy

b. Potential energy



23. What causes the drum to **make sound** when hit?

a. Moving up and down

b. Vibration



24. How does **sound energy** move?

a. In waves

b. In a straight line

25. Which **type of wave** are sound waves?

a. Transverse wave

b. Longitudinal wave



26. How do **longitudinal waves** move?

a. Back and forth

b. Up and down

27. Where can **sound waves** move?

a. Solids and liquids only

b. Gases only

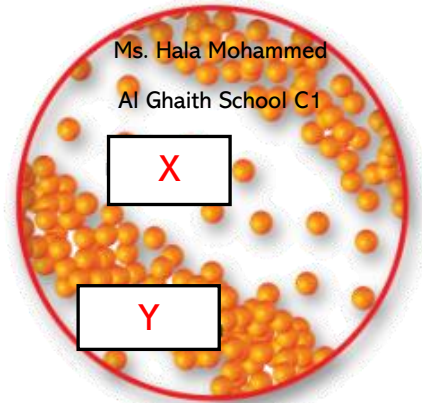
c. Solids, liquids and gases

28. What does the **letter X** represent?

- a. Rarefactions                      b. Compressions

29. What does the **letter Y** represent?

- a. Rarefactions                      b. Compressions

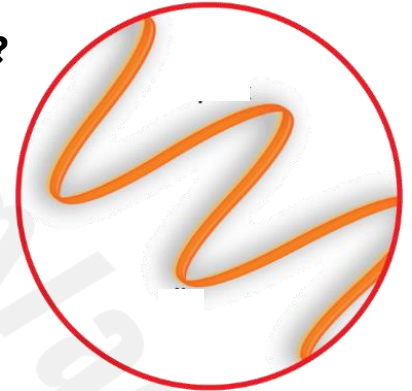


30. What is the **highest point** in a sound wave called?

- a. Peak                                      b. Dip

31. What is the **lowest point** in a sound wave called?

- a. Peak                                      b. Dip



32. Sound **needs** a \_\_\_\_\_ to move through.

- a. Vacuum                      b. Light                      c. Shadow                      d. Medium

33. Sound travels **the fastest** in:

- a. Solids                                      b. Liquids                                      c. Gases

34. Sound travels **the slowest** in:

- a. Solids                                      b. Liquids                                      c. Gases

35. What part of **sound energy** is **needed** for it to travel?

- a. Shadows                      b. Light                      c. Vibrations                      d. Heat

36. How are **light** and **sound** energies **the same**?

- a. Both move in waves                      b. Both move in straight lines  
c. Both move in vacuum

37. How are **light** and **sound** energies **different**?

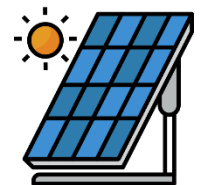
- a. Light moves in waves, but sound moves in straight lines  
b. Light needs a medium to move through, but sound does not  
c. Light does not need a medium to move, but sound needs a medium

38. A **wave** that transfers energy **through a medium** and moves in all directions is a:

- a. Light wave                      b. Sound wave                      c. Vibration

39. **Solar cells** **change light energy** from the Sun **into**:

- a. Sound                      b. Electricity                      c. Light                      d. Heat

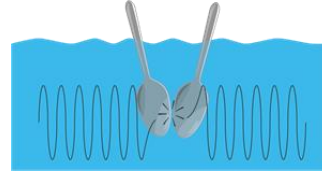


40. Light energy **can move without a medium** (like in space).

- a. True  
b. False

41. Identify the medium in which sound is moving through:

(solid, liquid, gas)

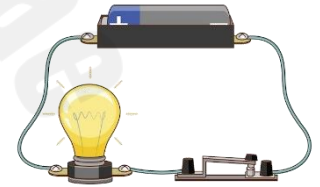


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### Lesson 3: Electricity

42. A **path** in which **electricity flows** is called a:

- a. Current
- b. Circuit
- c. Switch
- d. Resistor



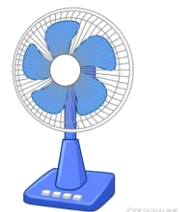
43. What is another name for a **battery** in a circuit?

- a. Resistor
- b. Switch
- c. Wire
- d. Voltage source



44. What is another name for a **fan** in a circuit?

- a. Resistor
- b. Switch
- c. Wire
- d. Voltage source



45. **Electric current** in a circuit **moves through**:

- a. The switch
- b. The wires
- c. The resistor

46. A device that **resists** the **flow of electricity** in a circuit is the:

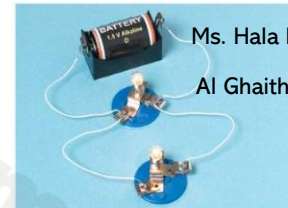
- a. Wire      b. Switch      c. Resistor      d. Voltage source

47. The **flow of charges through the wires**, to make a device work is:

- a. Conductors      b. Insulators      c. Electric current

48. What is the type of this circuit?

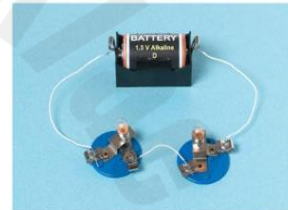
- a. Series circuit      b. Parallel circuit



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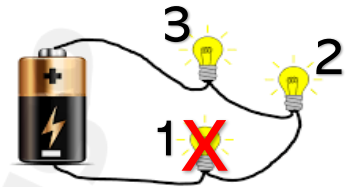
49. What is the type of this circuit?

- a. Series circuit      b. Parallel circuit



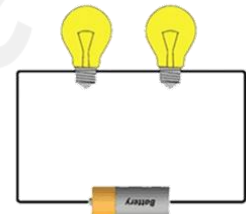
50. What would happen to **the other lights** if **light 1** was removed?

- a. Light 3 will work      b. Light 2 will work  
c. All lights will not work      d. All lights will work



51. If you **remove 1 light** from a **series circuit**, **what will happen to the other light?**

- a. It will work      b. It will not work

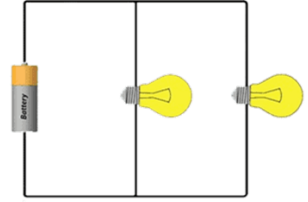




52. If you **remove 1 light** from a **parallel circuit**, **what will happen to the other light?**

a. It will work

b. It will not work



53. Which **type of circuit** is used in houses, schools and malls?

a. Series circuit

b. Parallel circuit

54. What is a **short circuit**?

a. A circuit with no switch

b. A circuit with no wires

c. A circuit with no voltage source

d. A circuit with no resistor

55. A(n) \_\_\_\_\_ is a material that **slows or stops the flow of energy**.

a. Conductor

b. Insulator

c. Battery

d. Flashlight

56. A(n) \_\_\_\_\_ is a material that **lets energy flow through**.

a. Conductor

b. Insulator

c. Battery

d. Flashlight

57. Which 2 objects are **electrical conductors**? [Choose 2]

a. Wood



b. A key



c. A spoon



d. A T-shirt



58. What is the role of the **switch** in a circuit?

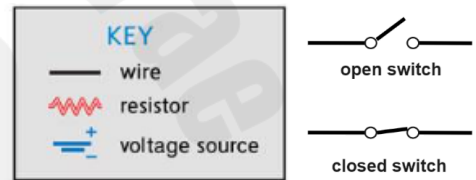
- a. Slowing down the flow of energy
- b. Providing energy
- c. Opening and closing the circuit
- d. Changing electrical energy into other forms of energy

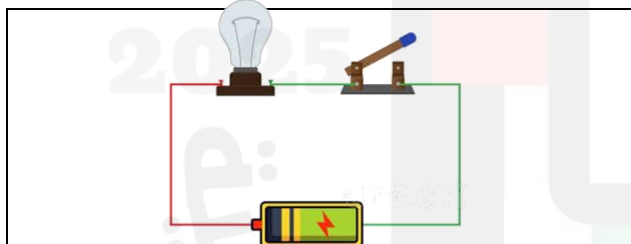
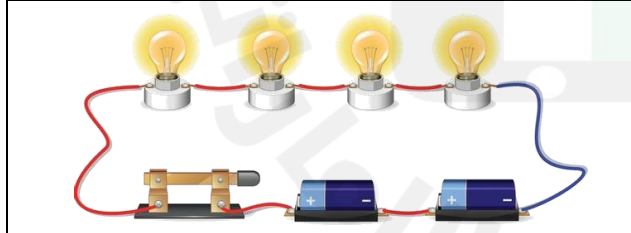
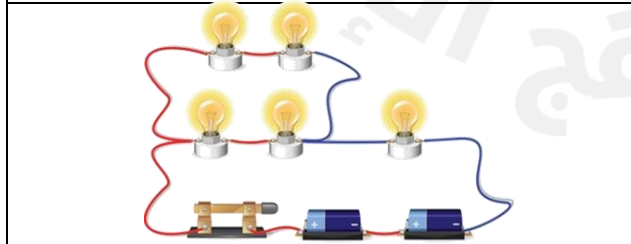


59. Which of the following objects is an **electrical insulator**?

- a. An iron nail 
- b. An eraser 
- c. Coins 
- d. A Key 

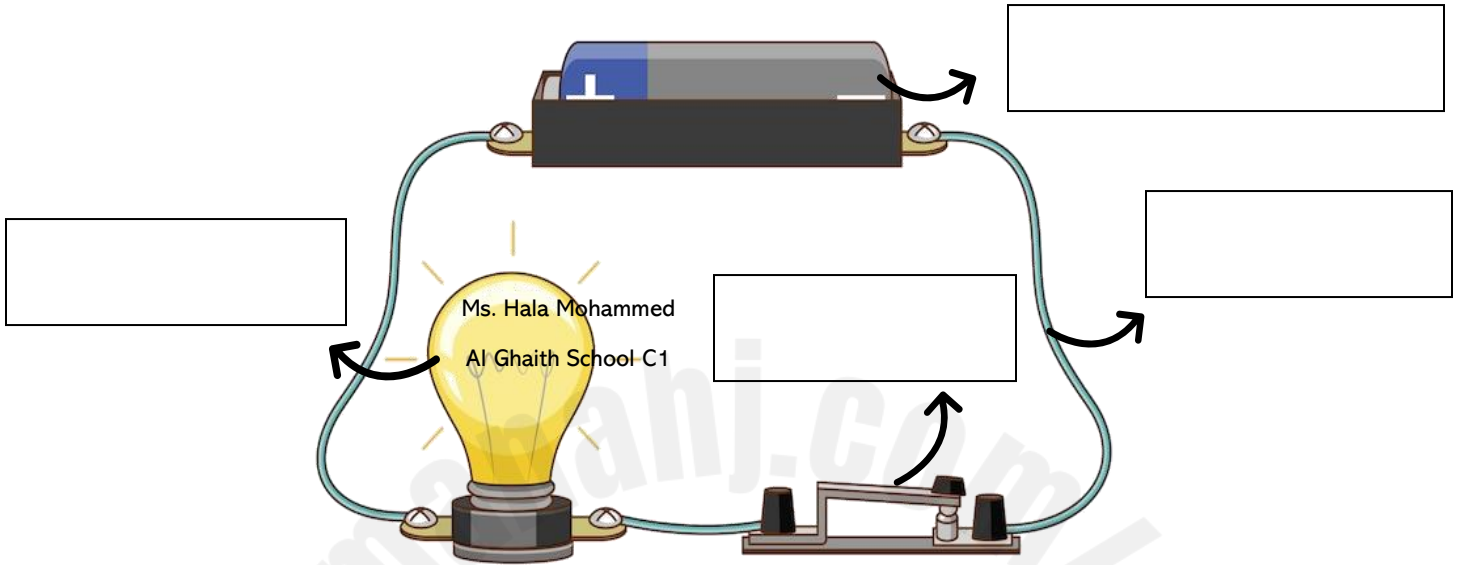
60. Use the key to draw the following circuits:



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61. Label the parts of a circuit:

Wire – Voltage source – Resistor – Switch

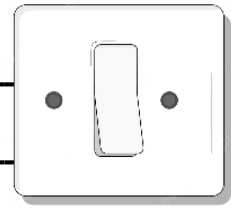


62. Identify the type of each circuit (**series** – **parallel**):


63. What role does a **switch** play in a circuit?

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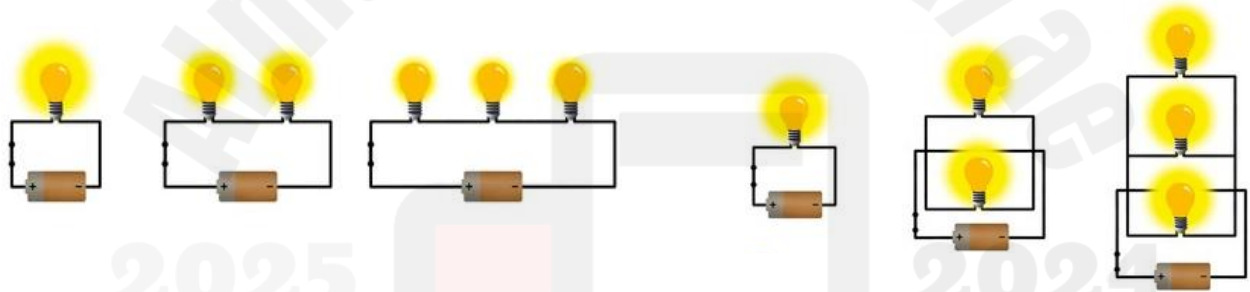
64. What happens to the **brightness of bulbs** each time you add another one?

**Series circuit:** \_\_\_\_\_

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**Parallel circuit:** \_\_\_\_\_

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#### Lesson 4: Heat

65. What is the **thermal energy**?

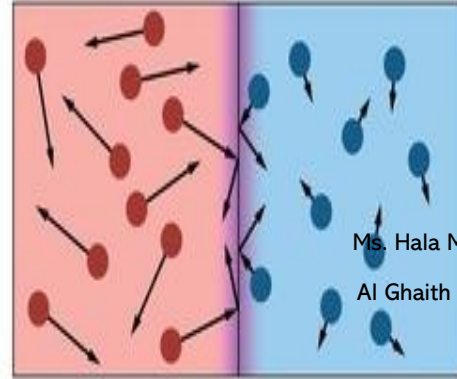
- a. The energy when particles make sound
- b. The energy when particles move
- c. The energy when particles make light

66. How do **hot** particles move?

- a. Fast                      b. Slowly

67. How do **cold** particles move?

- a. Fast                      b. Slowly



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68. Which particles have **more energy**?

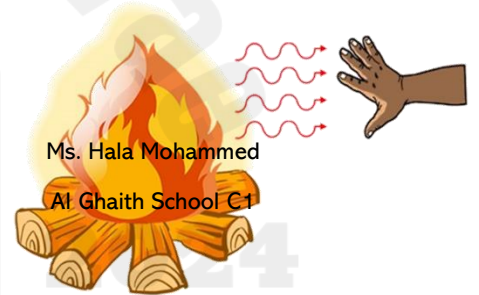
- a. Hot particles                      b. Cold particles

69. Which particles have **less energy**?

- a. Hot particles                      b. Cold particles

70. How does **heat move**?

- a. From cold → hot                      b. From hot → cold



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71. Choose all 3 methods for heat transfer. [Choose 3]

- a. Conservation                      b. Conduction                      c. Radiation  
d. Transformation                      e. Vibration                      f. Convection

72. Aysha put a spoon in her coffee. **How does heat move here?**

- a. From the spoon → the coffee  
b. From the coffee → the spoon



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73. Materials that **conduct heat poorly** are called:

a. Conductors

b. Insulators

74. Materials that **conduct heat well** are called:

a. Conductors

b. Insulators

75. When you rub your hands together, **what energy** do you make?

a. Electrical energy

b. Light energy

c. Chemical energy

d. Thermal energy



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76. Which of the following is a **good thermal conductor**?

a. Paper cup



b. Iron



c. Wool



d. Wood



77. Which of the following is a **good thermal insulator**?

a. Aluminum



b. Silver



c. Plastic



d. Copper



78. **Thermal energy** is:

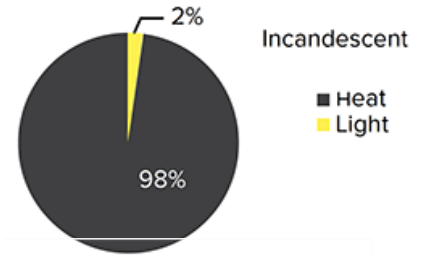
a. Kinetic energy

b. Potential energy



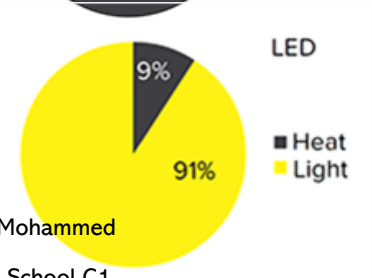
79. What is the **percentage of heat** produced by the **LED bulb**?

- a. 98%
- b. 91%
- c. 9%
- d. 2%



80. What is the **percentage of heat** produced by the **incandescent light**?

- a. 98%
- b. 91%
- c. 9%
- d. 2%



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81. Which light **wastes so much energy as heat**?

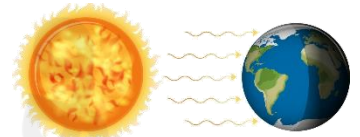
- a. Incandescent
- b. LED

82. Which light is **better**?

- a. Incandescent
- b. LED

83. How does the **heat from the Sun travel to Earth**?

- a. Conduction
- b. Convection
- c. Radiation



84. How is **heat** being **transferred** in this picture?

- a. Conduction
- b. Convection
- c. Radiation

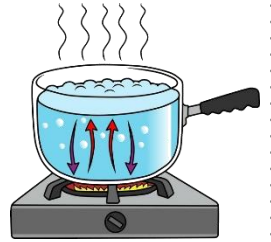


85. How is **heat** being **transferred** in this picture?

a. Conduction

b. Convection

c. Radiation



86. Label the letters with the correct **heat transfer method**:

**Convection** – **Radiation** – **Conduction**




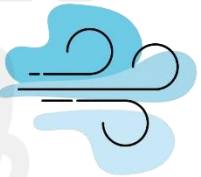






A:

B:

C:

87. Label each object as **conductor** or **insulator**.

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 <input type="text"/>	 <input type="text"/>	<p>Ms. Hala Mohammed Al Ghaith School C1</p>  <input type="text"/>	 <input type="text"/>

88. Study the table then answer:

Which material is **the best thermal conductor**? Use evidence to explain your answer.

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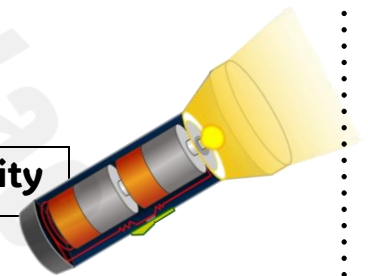
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Thermal Conductivity	
Material	How Many Times Better Than Air It Conducts Heat
Oak wood	6
Water	23
Brick	25
Glass	42
Stainless steel	534
Aluminum	8,300
Copper	15,300
Silver	16,300

89. Use the word bank below to fill in the blanks.

Energy	Switch	Wire	Light	Heat	Electricity
--------	--------	------	-------	------	-------------



1. When you turn on the \_\_\_\_\_, electricity flows to the lightbulb.
2. The \_\_\_\_\_ carries the electricity to the lightbulb.
3. The lightbulb changes \_\_\_\_\_ energy into other types of energy.
4. The lightbulb gives off \_\_\_\_\_ so we can see.
5. It also gives off \_\_\_\_\_, which makes it **warm**.
6. This shows how \_\_\_\_\_ changes from one form to another.

90. Explain what happens **if the circuit in the flashlight is broken**?

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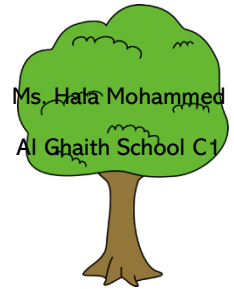
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## Lesson 5: Energy from Nonrenewable Resources

91. Things found **in nature** and are **useful to people** are called:

a. Natural resources

b. Man-made resources



92. **Natural resources** are:

a. Only living things

b. Only non-living things

c. Can be living and non-living

93. **Natural resources** can be:

a. Only renewable

b. Only nonrenewable

c. Can be renewable and nonrenewable

94. What does a '**nonrenewable resource**' mean?

a. It is a resource that is made over and over

b. It is a resource that can run out (finish)

c. It is a resource that only includes living things (animals and plants)

95. **Rocks, soil, air, sunlight** and **minerals** are all examples of **living natural resources**.

a. True

b. False

96. Circle all the **living natural resources**:

a. Wind 

b. Coal 

c. Animals 

d. Plants 

e. Rocks 

f. Oil 

97. What are the 3 **fossil fuels**?

a. Wind

b. Oil (petroleum)

c. Biofuel

d. Natural gas

e. Coal

f. Rocks

98. Circle all **nonrenewable resources**.

a. Minerals

b. Coal

c. Biofuel

d. Natural gas

e. Oil (petroleum)

f. Nuclear energy

99. Which fossil fuel is **the most plentiful**, and is **used to make electricity**?

a. Coal

b. Oil (petroleum)

c. Natural gas

100. Which fossil fuel is used for **cooking and heating**?

a. Coal

b. Oil (petroleum)

c. Natural gas

101. What is the **energy coal** has?

a. Thermal energy

b. Electrical energy

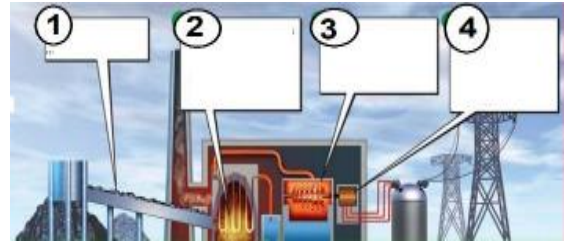
c. Chemical energy

d. Light energy



102. Which step shows changing **chemical energy** → **thermal energy**?

- a. 1
- b. 2
- c. 3
- d. 4



103. Which statement is **not true** about **nuclear energy**?

- a. Nuclear energy is **created from fossil fuels**
- b. Nuclear energy waste **can be dangerous**
- c. Nuclear energy is used to generate **(make) electricity**
- d. Nuclear energy is a **nonrenewable resource**



104. **Gasoline and diesel** are **made from**:

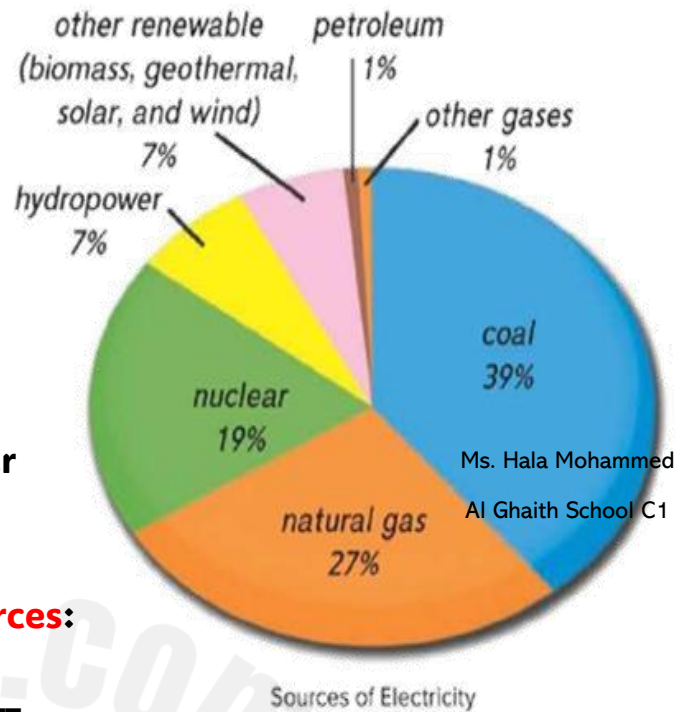
- a. Coal
- b. Oil (petroleum)
- c. Natural gas

105. Circle the box that contains a **fossil fuel**.

Oil	Wood	Wind
Sun	Water	Coal
Natural gas	Living things	Heat from inside the Earth
Corn	Animals	Gasoline



106. Study the graph then answer the following questions:



1. Which of the following is **not** a fossil fuel?

- a. Natural gas
- b. Coal
- c. Petroleum
- d. Hydropower

2. List **all** the **nonrenewable resources**:

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_

3. What is the **total percentage** of the **nonrenewable resources**?

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4. Name a **nonrenewable resource** that is **not made** from fossil fuels

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107. Study the graph then answer

the following questions:

1. What is the percentage of **nuclear Energy (X)**?

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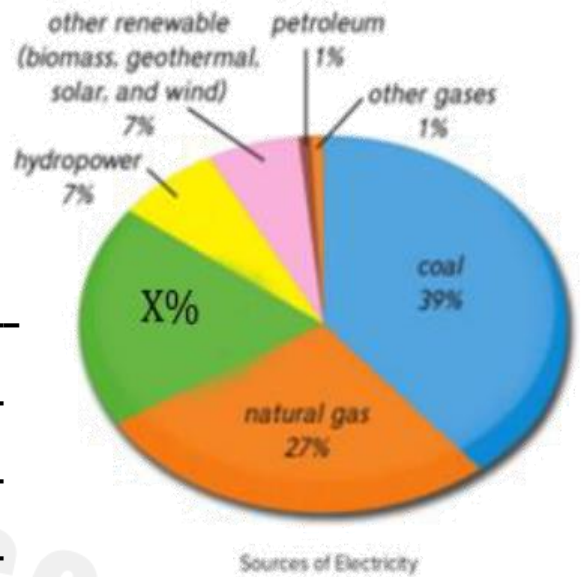
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2. Based on the graph, what is the **total percentage** of the **nonrenewable resources** that are used to generate electricity?

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### Lesson 6: Energy from Renewable Resources

108. \_\_\_\_\_ is a useful material that is **replaced quickly in nature**.

- a. A renewable resource
- b. A nonrenewable resource
- c. Coal
- d. Oil

109. Choose all examples of **renewable resources**.

- a. Coal
- b. Air
- c. Water
- d. Natural gas
- e. Oil (petroleum)
- f. Wind

110. Energy **from the Sun** that is **used to make electricity** is called:

- a. Hydroelectricity
- b. Nuclear energy
- c. Solar Energy
- d. Wind energy

111. Energy **from the wind** that is **used to make electricity** is called:

- a. Hydroelectricity
- b. Wind energy
- c. Geothermal Energy
- d. Solar energy

112. Energy **from water** that is **used to make electricity** is called:

- a. Hydroelectricity
- b. Wind energy
- c. Geothermal Energy
- d. Solar energy

113. **Heat energy** taken **from inside the Earth** that is **used to make electricity** is called:

- a. Geothermal energy
- b. Solar energy
- c. Biofuel
- d. Wind energy

114. A fuel **made from living things**, or things taken from living things

- a. Fossil fuel                      b. Gasoline                      c. Diesel                      d. Biofuel

115. **Wood**, **crops** and **animal waste** are all part of:

- a. Nonrenewable resources                      b. Biomass  
c. Fossil fuel                      d. Nuclear energy



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116. **Burning biomass** gives us:

- a. Fossil fuel                      b. Biofuel                      c. Natural gas                      d. Coal

117. What is the **energy transformation** that happens **when you burn biomass**?

- a. Thermal → Light + fuel                      b. Chemical → Electrical + fuel  
c. Chemical → Sound + fuel                      d. Chemical → Thermal + fuel



118. What is the **energy transformation** involved in **solar energy**?

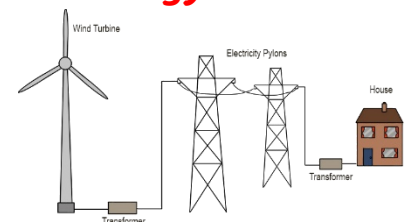
- a. Light → Electricity                      b. Light → Thermal  
c. Thermal → Light                      d. Thermal → Electricity



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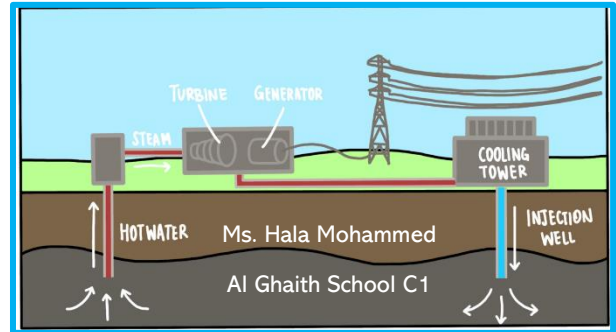
119. What is the **energy transformation** involved in **wind energy**?

- a. Electricity → Kinetic                      b. Kinetic → Electricity  
c. Electricity → Thermal                      d. Kinetic → Light



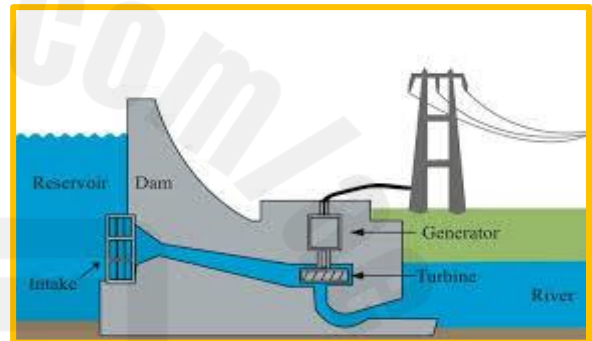
120. What is the **energy transformation** involved in **geothermal energy**?

- a. Kinetic → Thermal → Electricity
- b. Thermal → Kinetic → Light
- c. Thermal → Thermal → Electricity
- d. Thermal → Kinetic → Electricity



121. What is the **energy transformation** involved in **hydroelectricity**?

- a. Kinetic → Thermal → Electricity
- b. Kinetic → Kinetic → Electricity
- c. Thermal → Kinetic → Electricity
- d. Thermal → Light → Electricity



122. Circle all boxes that contains a **renewable energy source**.

Oil	Wood	Wind
Sun	Water	Coal
Natural gas	Living things	Heat from inside the Earth
Corn	Fossil fuels	Gasoline



123. Use the word bank below to name each energy source.

<b>Geothermal energy</b>	<b>Nuclear energy</b>	<b>Hydroelectricity</b>	<b>Solar energy</b>
<b>Biofuel</b>	<b>Wind energy</b>	<b>Oil (petroleum)</b>	<b>Tidal energy</b>













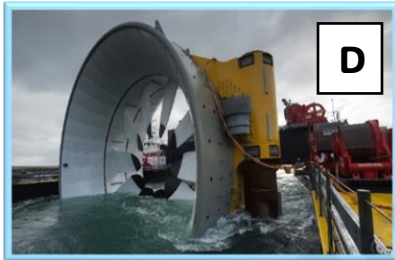





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124. Classify the pictures below as **renewable** or **nonrenewable**.



Renewable Energy	Nonrenewable Energy

125. Write true ✓ or false ✗ for each sentence below:

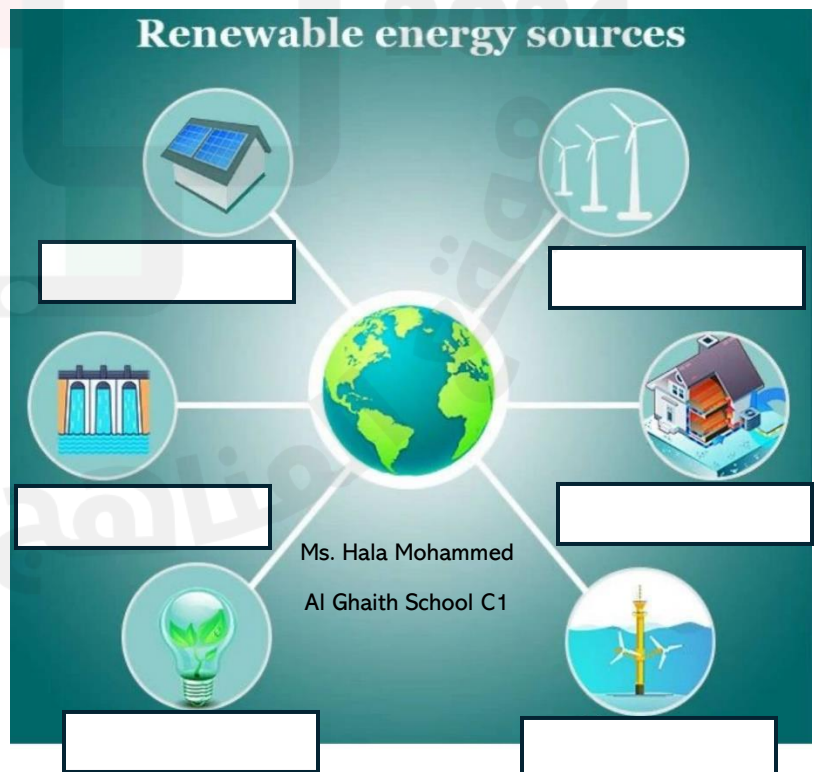
- a. Solar energy is a nonrenewable resource ( )
- b. Coal is a renewable source because it can be made again quickly ( )
- c. Trees are a renewable source because we can plant new trees ( )
- d. Biomass energy comes from the Sun ( )
- e. Wood and food waste can be used to make biomass energy ( )

126. Choose an answer then fill in the blanks:

- a. Biomass energy comes from \_\_\_\_\_ things like plants and trees. (nonliving / living)
- b. People burn \_\_\_\_\_ to make biomass energy. (fossil fuel/ plants)
- c. Biomass energy is \_\_\_\_\_ because we can grow more plants. (renewable / nonrenewable)

127. Name each renewable energy source:

- Biomass
- Geothermal energy
- Wind energy
- Solar energy
- Hydroelectricity
- Tidal energy



## Lesson 7: Impact of Energy Use

128. How does using **fossil fuels** **affect the environment**?

- a. Using fossil fuels makes the quality of the air better
- b. Using fossil fuels requires burning them, which pollutes the air
- c. Using fossil fuels makes ocean water cleaner



129. The **overuse of fossil fuels** leads to:

- a. Landslides
- b. Floods
- c. Pollution
- d. Better soil

130. Which of the following can we use to **power cars** **AND** **conserve resources** at the same time?

- a. Using biofuels
- b. Using oil (petroleum)
- c. Using gasoline

131. Burning fossil fuels can release **bad substances** **which makes the environment dirty**. **This is called**:

- a. Pollution
- b. Conservation
- c. Recycling

132. **All renewable energy sources** **do not** **cause pollution**.

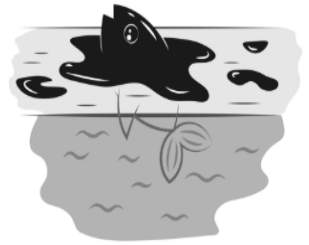
- a. True
- b. False

133. Which **renewable energy sources** **do not** **cause pollution**? [Choose 4]

- a. Solar energy
- b. Geothermal energy
- c. Wind energy
- d. Biofuel
- e. Hydroelectricity
- f. Fossil fuels

134. How does an **oil spill** affect the animals in the ocean?

- a. It helps them swim faster
- b. It provides extra food for them
- c. It will be hard for the animals to breathe, some might die
- d. It has no effect on the animals



135. What does **habitat loss** mean?

- a. When animals cannot find food
- b. When animals become sick
- c. When animals cannot find water
- d. When animals lose their homes



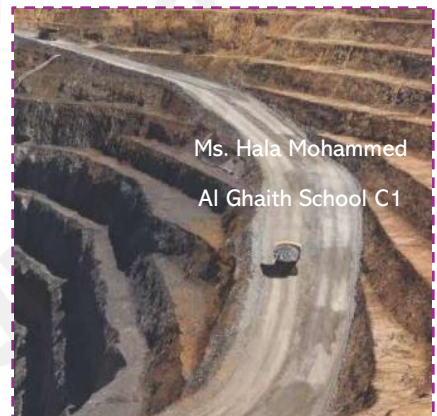
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136. How can **people cause habitat loss**?

- a. By planting more trees
- b. By cutting down trees
- c. By reducing pollution
- d. By making laws to protect animals

137. What has been **cleared away** in this strip mining operation?

- a. Trees
- b. Plants
- c. Soil
- d. All



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138. The act of **saving and using resources wisely** is called:

- a. Conservation
- b. Conduction
- c. Convection
- d. Pollution

139. How can you **conserve**?

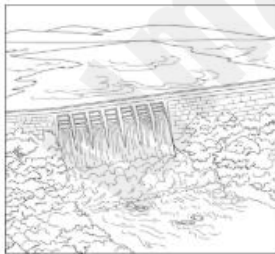
- a. By using so much plastic
- b. By reducing waste
- c. By wasting water and electricity
- d. By polluting land and water

140. What are **the 3 R's**?

- a. Rebuild, Restore, Repair
- b. Remove, Reuse, Recycle
- c. Reduce, Reuse, Recycle
- d. Reduce, Remake, Remember



141. Circle all pictures that show how we use the **energy from moving water and air**.



142. Explain how **our use of energy resources affects the environment**

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143. What has been **cleared away** in this strip mining operation? How can this **affect the animals that live there**?

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144. How does **burning fossil fuels** affect the environment?

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145. Why is it important to **conserve natural resources**?

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