



وزارة التربية والتعليم  
MINISTRY OF EDUCATION

**AL SA'ADA SCHOOL**  
**STUDY GUIDE-QUIZ-2**

**Grade 4- Science**

**Term 2: 2024/2025**

**Grade**

**4**

<b>Student Name</b>	
<b>Grade</b>	<b>4</b>
<b>School Name</b>	<b>AL SA'ADA SCHOOL</b>
<b>Subject</b>	<b>SCIENCE</b>
<b>Teacher Name</b>	<b>MISS CHRISTY JOSEPH</b>
<b>Teacher Signature</b>	

**GRADE**

**30**






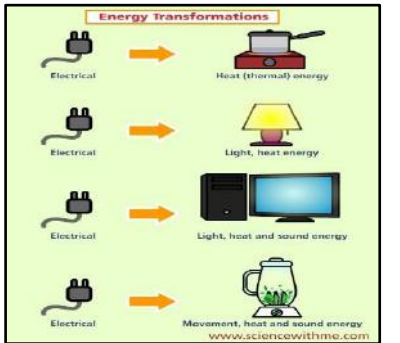
## UNIT 2- Module 2

### LESSON 1: Energy from Nonrenewable Resources (Page 94, 95 97,98 and 103)

Natural Resource	الوقود الحفري	Something that is <u>found in nature</u> and is <u>valuable</u> to humans. Can be living or nonliving.	
Nonrenewable Resources	طاقة غير متجددة	Natural materials or sources of energy that are useful to people and <u>cannot be replaced easily</u> . They take millions of years to form.	
Fossil Fuel	الوقود الحفري	A fossil fuel is a source of energy <u>made from the remains of ancient, once living things</u> .	
Renewable Resource	مورد قابل للتجديد	A renewable resource is one that can be <u>used repeatedly</u> and <u>does not run out</u> because it is naturally replaced.	



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<p><b>Coal</b></p>	<p>الفحم</p>	<p>Coal is found <u>between rock layers</u>. Coal is mainly used to <u>generate electricity</u>.</p>	
<p><b>Crude oil</b></p>	<p>النفط الخام</p>	<p>Crude oil is a <u>thick, black substance</u> that is also called <u>petroleum</u>. It can be <u>turned into gasoline</u> and other <u>types of fuel</u>.</p>	
<p><b>Natural gas</b></p>	<p>غاز طبيعي</p>	<p>It is <u>found where oil is found</u>. It can provide energy for <u>cooking</u> and <u>heating our homes</u>.</p>	
<p><b>Energy changes or Energy Transformation</b></p>	<p>تحويل الطاقة</p>	<p>The process of <u>changing energy from one form to another</u>.</p>	



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# NATURAL RESOURCES

Natural Resources are materials or substances that occur in nature and can be used for economic benefit or to satisfy human needs



EXAMPLES.COM



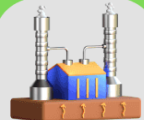
## Renewable and Nonrenewable Energy

### renewable

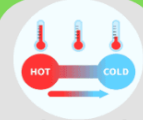
Restore naturally at a rate comparable to human consumption



solar



geothermal



thermal  
gradient



hydro



wind



biomass

### nonrenewable

Exist in finite amounts or replenish over geological time spans



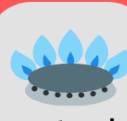
oil



coal



nuclear



natural  
gas



peat



propane

sciencenotes.org

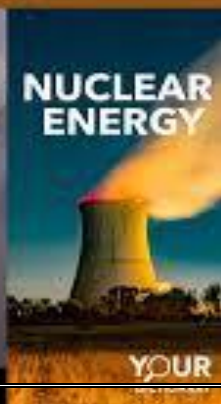
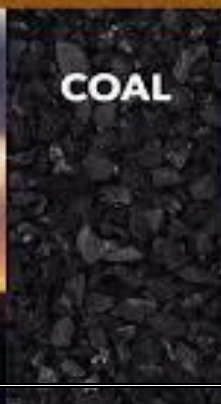
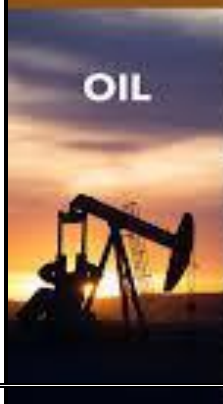
## NONRENEWABLE RESOURCE EXAMPLES

OIL

COAL

NATURAL  
GAS

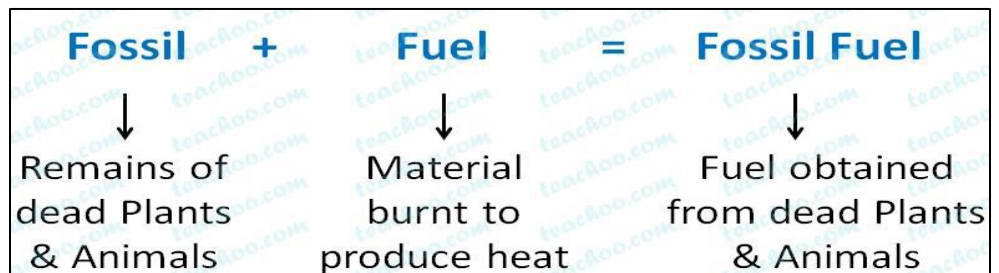
NUCLEAR  
ENERGY



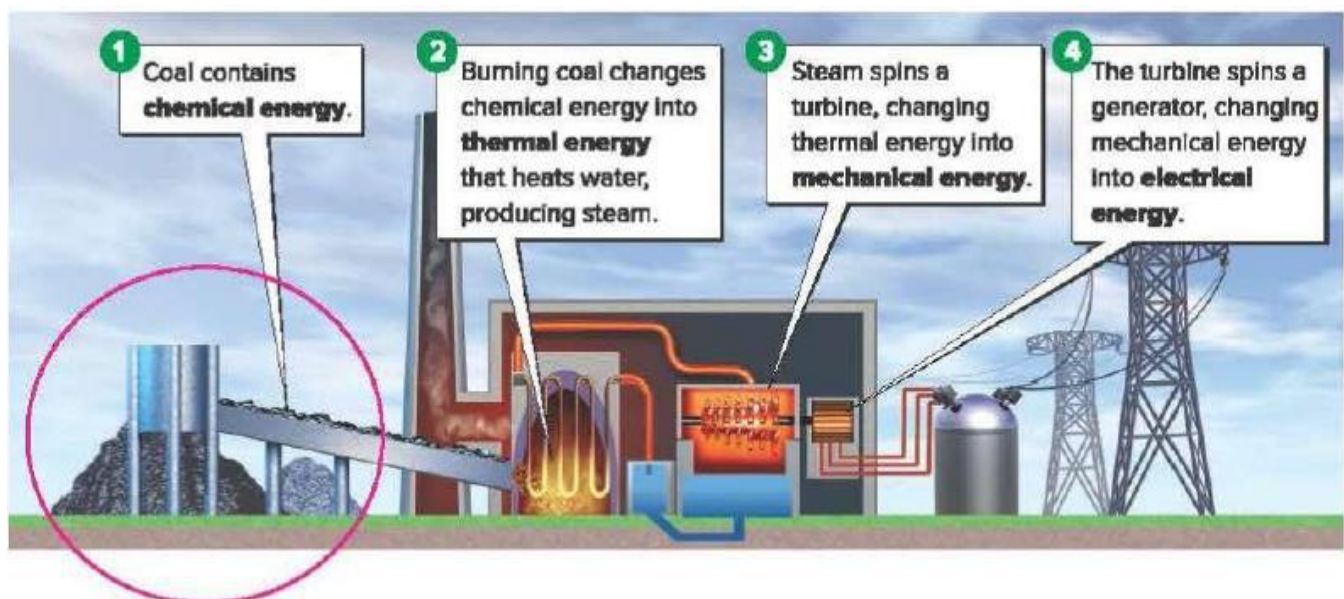


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## FOSSIL FUEL:



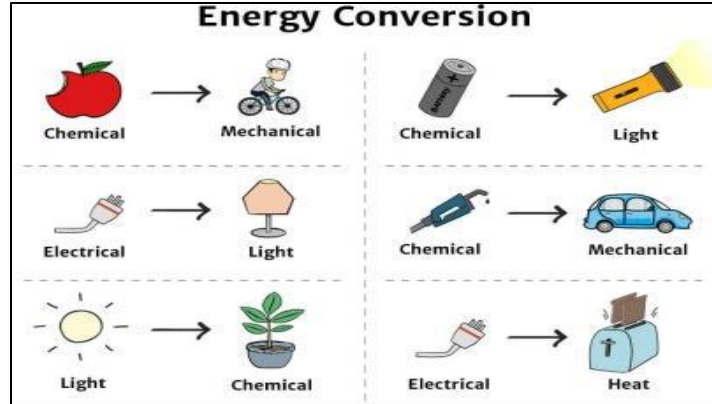
**POWER PLANT:** Fossil fuel power plants predominantly use **coal, natural gas, or oil as fuel sources**. These plants operate by burning fossil fuels to produce **heat**, which converts water into steam. The steam then drives turbines connected to generators, producing **electricity**.







**Energy Changes or Energy Transformation:** The process of changing energy from one form to another.



### INSTRUCTIONS:

1. Quiz 1 will be out of 30 marks, consisting of 60% multiple-choice questions (MCQs) and 40% free-response questions (FRQs).
2. Attendance is mandatory- No retest will be given without a valid medical certificate.
3. The retest for absent students will consist of a separate set of questions and will not be the same as the original quiz.
4. The questions in the study guide are for practice only and are meant to provide an idea of the types of questions that may appear on the exam.
5. Exact questions from the study guide will not appear on the exam. It is the student's responsibility to prepare thoroughly.
6. Reading of questions is not permitted- As 4th-grade students, they are expected to read and write independently during the exam.

### !!تعليمات هامة!!

1. سيكون الاختبار الثاني من 30 درجة، ويتكون من 60% من أسئلة الاختيار من متعدد (MCQs) و40% من أسئلة الإجابة الحرة (FRQs).
2. الحضور إجباري - لن يُسمح بإعادة الاختبار دون شهادة طبية صالحة.
3. سيتم إعداد اختبار مختلف للطلاب المتغيبين، ولن يكون نفس الاختبار الأصلي.
4. الأسئلة الموجودة في د  
التي قد تأتي في الامتحان.
5. لن تتكرر الأسئلة الموجودة في دليل الدراسة في الامتحان. من مسؤولية الطالب التحضير جيداً للامتحان.
6. لن يُسمح بقراءة الأسئلة بصوت عالٍ. يُتوقع من طلاب الصف الرابع قراءة وكتابة الامتحان بأنفسهم.



**Question 1**  
**2 mrks**

Fossil fuels are \_\_\_\_\_.

- |          |                               |
|----------|-------------------------------|
| <b>A</b> | <b>Nonrenewable resources</b> |
| <b>B</b> | Renewable resources           |
| <b>C</b> | Unlimited resources           |
| <b>D</b> | Inexpensive resources         |

**Question 2**  
**2 mrks**

\_\_\_\_\_ is pumped out of the ground and can be used for cooking.

- |          |                    |
|----------|--------------------|
| <b>A</b> | Nuclear energy     |
| <b>B</b> | Crude oil          |
| <b>C</b> | Coal               |
| <b>D</b> | <b>Natural gas</b> |

**Question 3**  
**2 mrks**

Which is not a fossil fuel?

- |          |                |
|----------|----------------|
| <b>A</b> | Oil            |
| <b>B</b> | <b>Uranium</b> |
| <b>C</b> | Coal           |
| <b>D</b> | Natural gas    |



**Question 4**  
**2 mrks**

A material that formed from ancient organisms and is used today as a source of energy is a(n)- .....

<b>A</b>		<b>Fossil fuel</b>
<b>B</b>		Fissile material
<b>C</b>		Sediment
<b>D</b>		Alternative energy resource

**Question 5**  
**2 mrks**

Which is an example of a nonrenewable resource?

<b>A</b>		Wind
<b>B</b>		<b>Oil</b>
<b>C</b>		Water
<b>D</b>		Sunlight

**Question 6**  
**2 mrks**

Coal is mainly used to generate\_\_\_\_\_ and has been used to power steam locomotives.

<b>A</b>		Sound energy
<b>B</b>		<b>Electrical energy (Electricity)</b>
<b>C</b>		Light energy
<b>D</b>		Nuclear energy





**Question 7**  
**2 mrks**

Which statement is **NOT** true about nuclear energy?

<b>A</b>		Nuclear energy is used to generate electricity.
<b>B</b>		Nuclear energy is created using fossil fuels.
<b>C</b>		Nuclear energy is a nonrenewable resource.
<b>D</b>		Nuclear energy waste may damage the environment.

**Question 8**  
**2 mrks**

Lilly learned that fossil fuels contain a lot of energy. Why are fossil fuels considered nonrenewable resources?

<b>A</b>		Fossil fuels are essential to civilization.
<b>B</b>		<b>Fossil fuels cannot be replaced fast enough for future use.</b>
<b>C</b>		Fossil fuels are easily renewed.
<b>D</b>		Fossil fuels are alternative energy sources

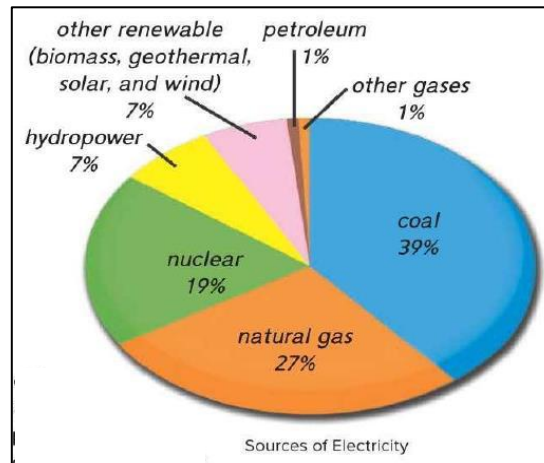
**Question 9**  
**2 mrks**

A battery powered light bulb is switched ON. Which energy transformation take place in tis process?

<b>A</b>		Electrical energy to chemical energy
<b>B</b>		Chemical energy to mechanical energy
<b>C</b>		Light energy to electrical energy
<b>D</b>		<b>Chemical energy to light energy</b>

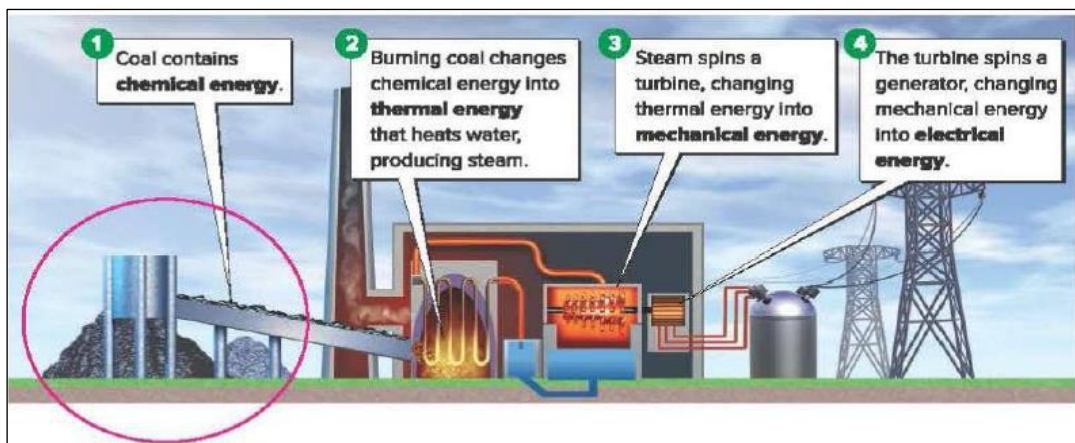


**Question 10**  
**4 mrks**



1. Which source of electricity has the highest percentage in the chart? .....
2. What percentage of electricity is generated using nuclear energy? .....

**Question 11**  
**6 mrks**



1. What type of energy does spinning turbine produce? .....
2. What is the final form of energy produced in this process? .....



Question 12  
2 mrks

What happens when we use too much of non-renewable resources?

.....

.....

.....

