

Grade

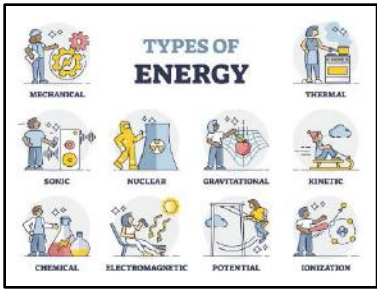



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Student Name	
Grade	4
School Name	AL SA'ADA SCHOOL
Subject	SCIENCE
Teacher Name	MISS CHRISTY JOSEPH
Teacher Signature	


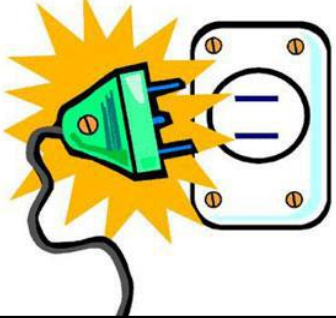
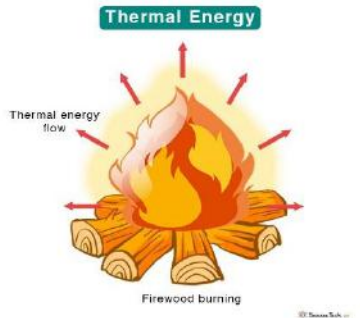
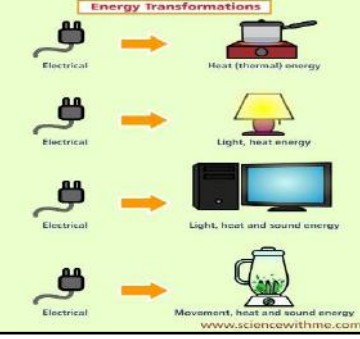
GRADE

20

UNIT 2- LESSON 1: Types of Energy (Page 12-15)

ENERGY	طاقة	Ability to do work.	
CHEMICAL ENERGY	الطاقة الكيميائية	Energy that is <u>stored in</u> and <u>released from the bonds between atoms.</u>	
NUCLEAR ENERGY	الطاقة النووية	Energy stored in and released from the <u>nucleus of an atom.</u>	
SOUND ENERGY	الطاقة الصوتية	Is a type of energy <u>produced by vibrations</u> of material. It is a type of energy of motion.	



<p>LIGHT ENERGY</p>	<p>الطاقة الضوئية</p>	<p>Is a type of energy which can <u>travel through space</u> and help us to <u>see objects</u>.</p>	
<p>ELECTRICAL ENERGY</p>	<p>الطاقة الكهربائية</p>	<p>Electrical energy is moving energy. Electrical energy comes from the <u>movement of charged particles</u>.</p>	
<p>THERMAL OR HEAT ENERGY</p>	<p>الطاقة الحرارية</p>	<p>Thermal energy is <u>the internal energy of an object due to the energy of motion of its particles</u>.</p>	
<p>ENERGY TRANSFORMATION</p>	<p>تحويل الطاقة</p>	<p>The process of <u>changing energy from one form to another</u>.</p>	



Types of Energy

Kinetic Energy

Motion Energy



Electrical Energy



Sound Energy



Radiant Energy



Thermal Energy

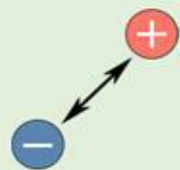


Potential Energy

Gravitational Potential Energy



Electric Potential Energy



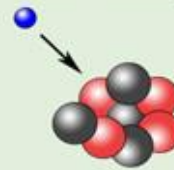
Elastic Energy



Chemical Energy



Nuclear Energy



Stored Energy

chemical energy,
nuclear energy

Energy of Motion

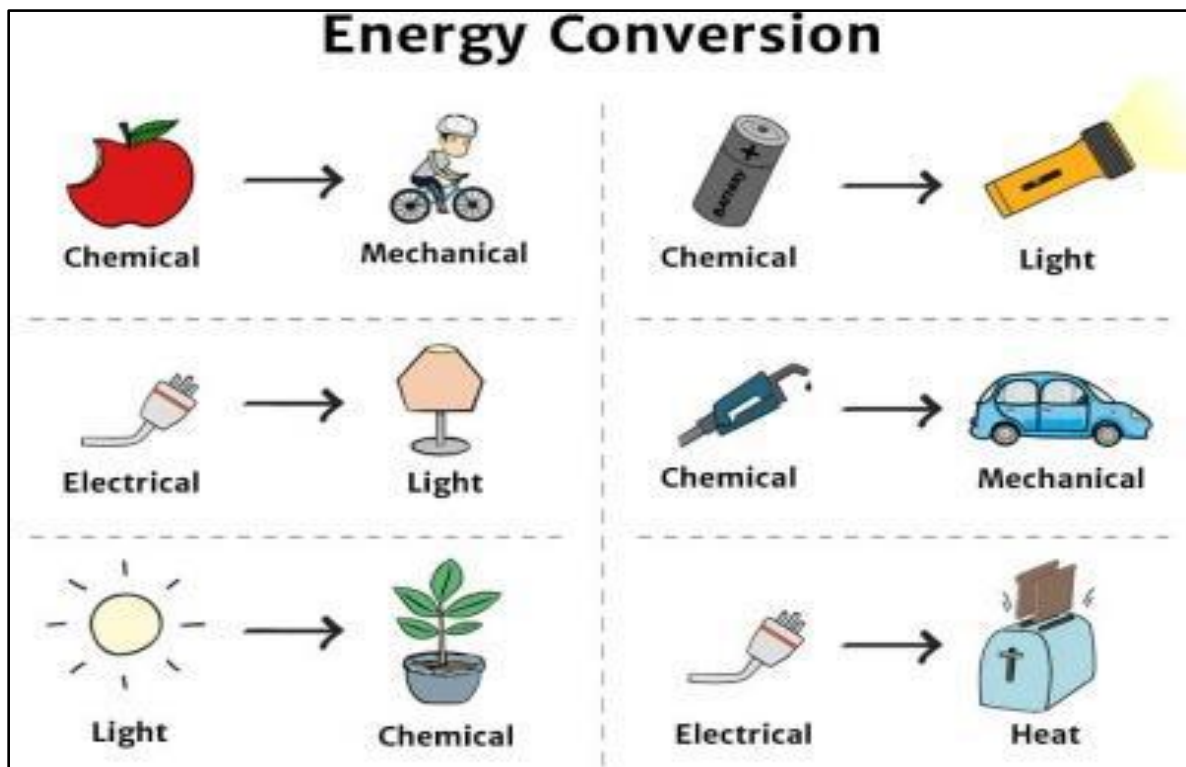
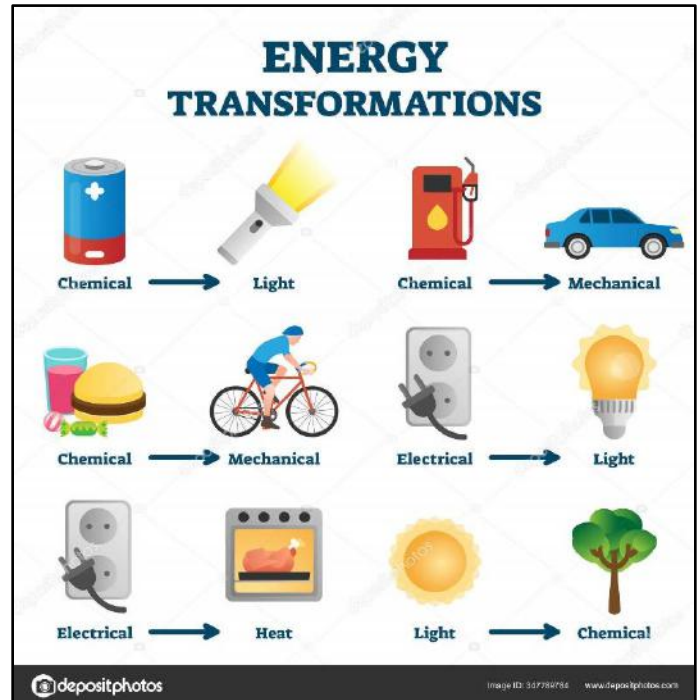
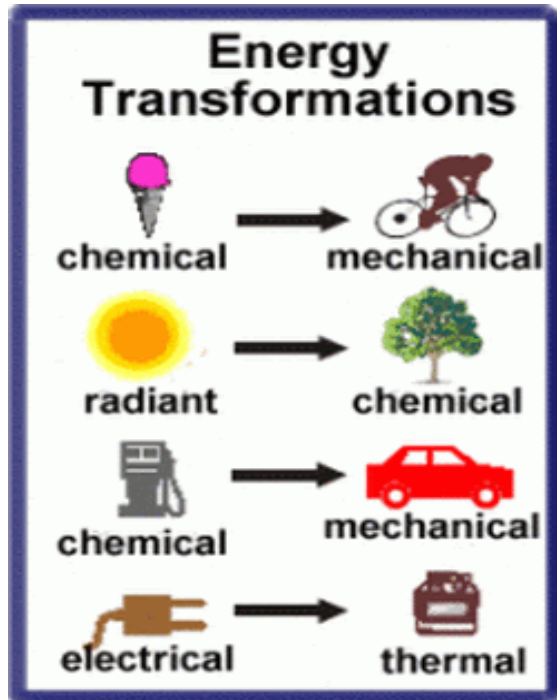
electrical energy,
thermal energy,
sound energy, light
energy



مؤسسة الإمارات للتعليم المدرسي
EMIRATES SCHOOLS ESTABLISHMENT



وزارة التربية والتعليم
MINISTRY OF EDUCATION



INSTRUCTIONS:

1. Quiz 1 will be out of 20 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 20 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 دليل الدراسة مخصصة للتدريب فقط، وهي تهدف إلى تقديم فكرة عن أنواع الأسئلة 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

Fireworks show what type of energy?

A	<input type="checkbox"/>	Light, Heat and Sound
B	<input type="checkbox"/>	Light, Heat and Nuclear
C	<input type="checkbox"/>	Sound, Chemical and Nuclear
D	<input type="checkbox"/>	Electrical, Light and Potential

Question 2

Animals obtain their energy from.....

A	<input type="checkbox"/>	Sun
B	<input type="checkbox"/>	Air
C	<input type="checkbox"/>	Uranium
D	<input type="checkbox"/>	Food

Question 3

Which of these is NOT energy of motion?

A	<input type="checkbox"/>	Sound
B	<input type="checkbox"/>	Chemical
C	<input type="checkbox"/>	Heat
D	<input type="checkbox"/>	Light



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Question 4

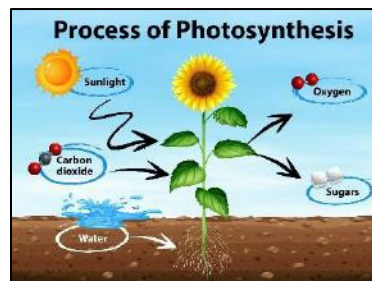
Which best shows how energy is transformed in a toaster?



A		Electrical to Thermal
B		Chemical to Thermal
C		Electrical to light
D		Electrical to Nuclear

Question 5

Identify the energy transfer (photosynthesis)



A		Chemical to Thermal
B		Light to Chemical
C		Light to Electrical
D		Chemical to Light

Question 6

Identify the energy transfer.



A		Nuclear to heat
B		Chemical to Light
C		Light to Chemical
D		Thermal to Electrical

Question 7

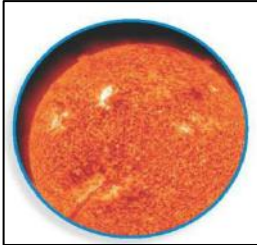
Classify each type of energy that you learned about as kinetic energy and potential energy.

POTENTIAL ENERGY	KINETIC ENERGY
1. Chemical Energy 2. Nuclear Energy	1. Sound Energy 2. Electrical Energy 3. Light Energy 4. Thermal or Heat Energy

Question 8

Identify the type of Energy:

1.



Nuclear Energy

2.



Thermal Energy

3.



Light Energy

4



Electrical Energy



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I know your exam
preparation is top-notch.
All The Best
for your **Exam.**

