Unit 10 Class Test Energy

NAME : _____

CLASS : ____

MULTIPLE CHOICE - Answer each of the following multiple-choice questions.

- Energy stored in solid object when it is either stretched or compressed.
 - a. Electrical energy
- c. Elastic energy
- b. Mechanical energy
- 2. The picture showing the energy conversion.

 $\mathsf{Electrical} \to \mathsf{light}$

is:



a.



c.



d.

3. The picture showing the energy conversion

 $Light \rightarrow electrical$

is:



a.



b.



C



4. What is the energy conversion when you plug in a stereo and listen to music?



- a. Chemical to heat
- b. Electrical to sound
- c. Potential to sound
- d. Electrical to mechanical
- 5. What is the energy conversion when you burn wood for a fire?
 - a. Chemical to thermal
 - b. Electrical to thermal



- c. Chemical to electrical
- d. Light to kinetic

What is the energy conversion when you put batteries in a flashlight to make it turn on?



- a. Chemical to light
- b. Nuclear to light

- c. Light to kinetic
- d. Chemical to thermal
- 7. What is the energy conversion when you have a skateboard at the top of the hill then move down?



- a. Kinetic to potential
- b. Potential to thermal

- c. Electrical to kinetic
- d. Potential to kinetic
- 8. What is the energy conversion when you eat food for fuel to go for a run?



b. Chemical to kinetic



- c. Kinetic to chemical
- d. Potential to chemical
- _____ energy is the energy that is stored.

a. Potential

c. Both

b. Kinetic

d. Neither

10. What is the energy conversion when photosynthesis takes place as the sun makes a plant grow?



a. Light to chemical

- c. Potential to nuclear
- b. Chemical to potential
- d. Thermal to chemical

11.

Heat always travels from...

a. Cool to warm

c. Cool to cool

b. Warm to warm

- d. Warm to cool
- 12. You could find a lot this type of energy at the top of a tall tree.
 - a. Mechanical

c. Electrical

b. Potential

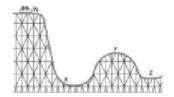
- d. Kinetic
- 13. What form of energy is defined as, "the total potential and kinetic energy of an object".
 - a. Potential

c. kinetic

b. Mechanical

d. Electrical

- 14. What type of energy is most responsible when you chew your food?
 a. Potential
 b. Chemical
 d. Electrical
- 15. True or False. Energy cannot be created or destroyed, rather it is transformed from one energy type to another.
 - a. True b. False
- 16. Which 2 letters have the most kinetic energy



a. X & Y

c. W & X

b. X&Z

d. W & Y



- 17. Which point has the most potential energy?
 - a. B

c. F

b. G

- d. A
- 18. The faster an object moves, the _____ kinetic energy it has.
 - a. All of the above

c. None of the above

b. More

d. Less

a. 4	400.000 J	c. 40 kJ	
b. 4	4 J	d. 0.004 M	J
Fill in th	e blank!		
20. Most	t important source of light	energy	-
READ TH	IESE INSTRUCTIONS FIRST	г	
Answer a	all questions in the spaces	provided on the que	estion paper. The
number	of marks is given in the bro	ackets [] at the end	of each question.
	kinetic energy	heat energy	
	electrical energy	chemical energy	
21. Com	plete the sentences about	forms of energy. Ch	oose words from
the I	ist.		[3]
a. 1	This type of energy is relea	sed when chemical	reaction occurs.
1	t's stored in food, batterie	s and fossil fuels	
b. 7	This energy is used to pow	er machines	
c. E	Energy of motion. All movi	ng things have this t	ype of energy.
e-			

19. Which is the largest amount of energy?



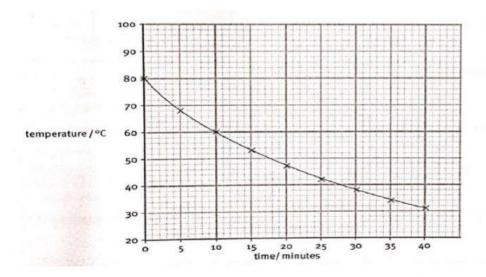
22. A ba	attery supplies 100 J of er	nergy to make a torch work. If the torch
prod	duces 20 J of light. how m	uch heat energy will it produce?
The	heat energy produced is	[1]
23. The	table below shows the a	amount of energy used each minute in
diffe	erent activities	
	Activity	Energy used per minute / kJ
swimm	ning at 25 m / minute	23
Wá	alking at 6 km / h	28
сус	cling at 16 km / h	31
rur	nning at 12 km / h	60
ae	robics (vigorous)	42
	the following questions Which among the activity	has used up much energy?
	a a	[1]
(b) H	ow much is the total ene	rgy used up in walking and doing

aerobics?_____



[1]

24. Alan and Jon investigated the cooling of a hot water poured into a metal container



(a) Study the graph. What was the temperature of the hot water at the start of the investigation?

[1]
La La

(b) What is the lowest temperature in the graph?

after 10 minutes?

(c) Look at the graph, what was the temperature of the hot water

(d) A lot of the energy in the hot water has disappeared, is this statement True or False

Answer	[1]
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