



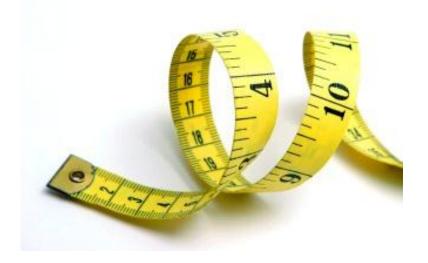
Section A

Answer all questions.

Put a **circle** around the correct option.

1.

What is this equipment used for?



- A. Weight
- B. Length
- C. Volume
- D. Time

(1 mark)

2.

This equipment is used to measure?



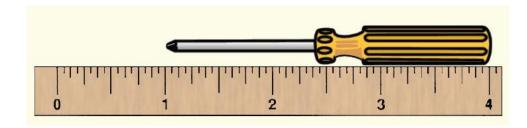
- A. Mass
- B. Length
- C. Time
- D. Weight

(1 mark)





3. This is a screw driver on a ruler. What is the length of the screw driver?



- A. 4cm
- B. 4m
- C. 3km
- D. 3cm

(1 mark)

4.

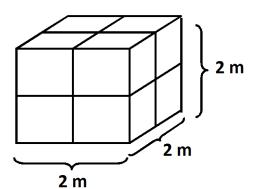
6000 minutes is how many hours?

- A. 100 hours
- B. 1000 hours
- C. 10 hours
- D. 10,000 hours

(1 mark)

5.

What is the volume of this cube?



- A. 8m³
- B. 6m³
- C. 4m³
- D. 2m³

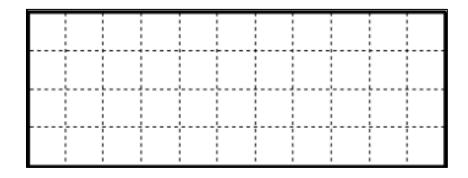
(1 mark)





6.

What is the area of the rectangle if every small square has an area of 2cm²?



- A. 44cm²
- B. 22cm²
- C. 88cm²
- D. 15cm²

(1 mark)

7.

Which of these is the proper unit for the mass of a man?

- A. Meter square
- B. Kilogram
- C. Cubic centimeter
- D. Millimeter

(1 mark)

8.

Which of these is a unit of volume?

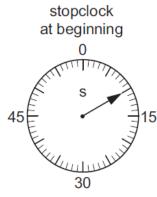
- A. g^2
- B. m²
- C. kg³
- D. cm³

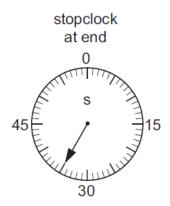
(1 mark)





9. The diagrams show the times on a stop clock at the start and end of an experiment.



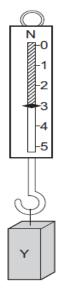


How long did the experiment take?

- A. 10s
- B. 25s
- C. 35s
- D. 45s

(1 mark)

10. What is this instrument called?

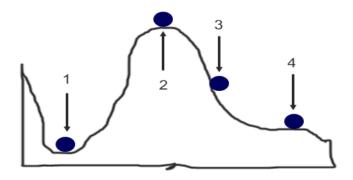


- A. Micrometer
- B. Beam balance
- C. Spring balance
- D. Vernier Caliper





21. In the picture below, in which position does the ball have the lowest potential energy?



- A. 1
- B. 2
- C. 3
- D. 4

(1 mark)

22. Energy stored in petrol is?

- A. Chemical energy
- B. Petroleum energy
- C. Electrical energy
- D. Mechanical energy

(1 mark)

23.

What type of energy is delivered by a battery?







- A. Kinetic energy
- B. Mechanical energy
- C. Electrical energy
- D. Chemical energy

(1 mark)

Section B

Write your answers on the spaces provided.

1. The diagram is a rectangle . Each small square has area of 4cm^2 .



A)	What is the area of the rectangle?





(2 marks)

B) What is the area of the triangle? Each small square has an area of 4cm².



(3 marks)

2.

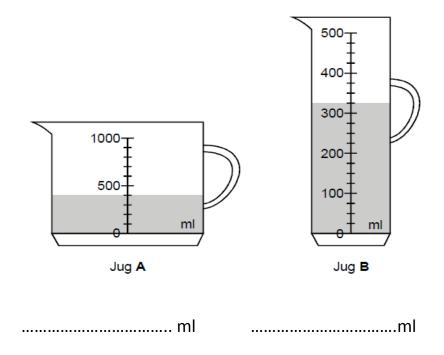
- A) Underline the correct word using either mass or weight.
 - 1. (Mass, Weight) is "the force on the object caused by a gravitational field".
 - 2. (Mass, Weight) of an object on moon is the same as on a earth.
 - 3. (Mass, Weight) is "the amount of matter in the body.

(3 marks)

B) On What are the readings on jugs A and B?



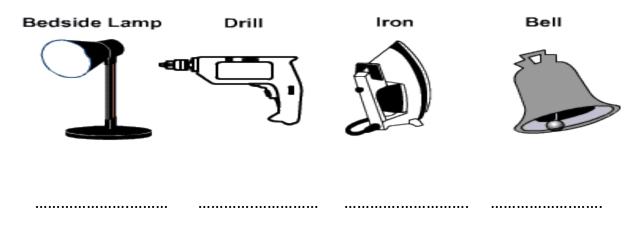




(2 marks)

c) These devices transfer electrical energy into other forms of energy. Choose a word from the box that indicates the energy type given by each device.

Heat Energy Kinetic Energy Sound Energy Light Energy



(2 marks)





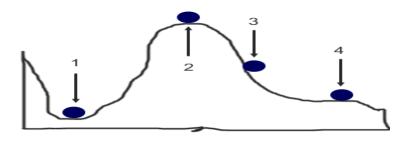
Section A

Answer all questions.

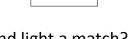
Circle the correct answer.

(1 mark for each correct answer)

- 1. A moving object has
 - A. kinetic energy
 - B. potential energy
 - C. both kinetic and potential energy
 - D. neither kind of energy
- 2. In the picture below, in which position does the ball have the greatest potential energy?



- A. 1
- B. 2
- C. 3
- D. 4
- 3. The energy stored inside a battery is
 - A. kinetic energy
 - B. chemical energy
 - C. both kinetic and potential energy
 - D. light energy



- 4. What energy transformation(s) take(s) place when you strike and light a match?
 - A. chemical to nuclear energy
 - B. mechanical to thermal energy
 - C. chemical to thermal
 - D. electromagnetic to potential energy







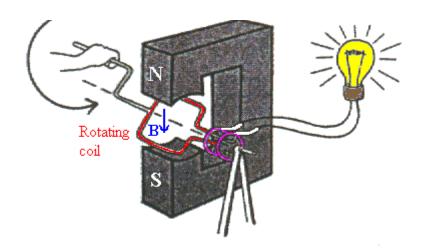
destroyed or created is called the law of

- A. conquering of energy
- B. Conservation of energy
- C. chemical energy
- D. constructive energy

Section B

Write your answers on the spaces provided.

A.



1) What is the name of the device shown in the picture above?

	Answer
	[1]
What is the input energy?	
	Answer

3) What is the output energy?

2)

[1]





Answer	
4) Choose a component from the table below that shows where the or energy occur.	[1] utput
Magnet Connecting Wires Bulb	
Answer	[1]
B.	
A B	
C. D.	
From this list choose the best option that best describes these forms of entransfer.	nergy
1- Electrical to thermal energy	
Answer	[1]
2- Chemical to mechanical energy	
Answer	[1]

11 | 7





Match the energy transformations below with the objects.

The first question is done for you.

A.	YE DE	B.	c.
D.		E.	

Energy transfer	Object
Chemical potential energy	E
→ Heat and light energy	
Electrical energy	
→ Sound energy	
Chemical potential energy	
→ Heat, light, sound and kinetic	
energy	
Gravitational potential energy	
→ kinetic and Sound energy	
Chemical potential energy	
→ Heat and kinetic energy	

(1 mark each)





Fill-in the spaces with the correct answers from the table below.

Chemical	Kinetic	Nuclear
Potential	Mechanical	Work

a)	Fission and fusion are examples of Energy.	
ω,	The second and examples of minimum and each	[1]
b)	The unit for Energy is	[1]
c)	The energy stored in petroleum and coal is stored in the form of	
	energy.	
		[1]
d)	Kinetic Energy + Potential Energy = energy.	[4]
		[1]
e)	Energy is the ability to do	
,		[1]
f)	The energy of position such as a rock on a hill isenergy	
٠,	The energy of position such as a rock of a finite immediately	[1]
αl	Movement of chiect from place to place is	
g)	Movement of object from place to place is energy	[1]

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