

Mothercare Preparatory Schools

Primary Five Science Holiday Work – Week Two

Name: _____ **Stream:** _____

Topic: HEAT ENERGY

Questions

1. Define the following terms;

a) energy

b) matter

2. Write down the three states of matter.

(i) _____

(ii) _____

(iii) _____

3. In which state of matter are the following?

a) water

b) metal

c) oxygen

4. Write down two characteristics of the following states of matter;

a) solids

(i) _____

(ii) _____

b) liquid

(i) _____

(ii) _____

5. Briefly explain the meaning of the following;

a) mass

b) volume

c) a molecule

d) weight

6.a) What are fuels?

b) Give atleast four examples of fuels.

(i) _____

(ii) _____

(iii) _____

(iv) _____

7.a) Give the three ways how heat travels from one place to another.

(i) _____

(ii) _____

(iii) _____

b) By what process does heat travel through;

(i) solids _____

(ii) liquids _____

(iii) gases _____

c) By what process does heat from the sun reach the earth?

8. In one sentence, give the meaning of the following;

a) good conductors of heat

b) bad conductors of heat

c) Why are most saucepans made of aluminium?

d) By what process does smoke in chimneys rise up?

9.a) What happens to heat when it falls on;

(i) a shiny coloured surface

(ii) a dull coloured surface

10.a) What is the function of a thermos flask?

b) What is the function of a vacuum seal in a thermos flask?

c) What effect has heat on matter?

11.a) What is the difference between heat and temperature?

b) Mention two liquids which are used in thermometers.

- (i) _____
- (ii) _____

12.a) Define the following types of energy.

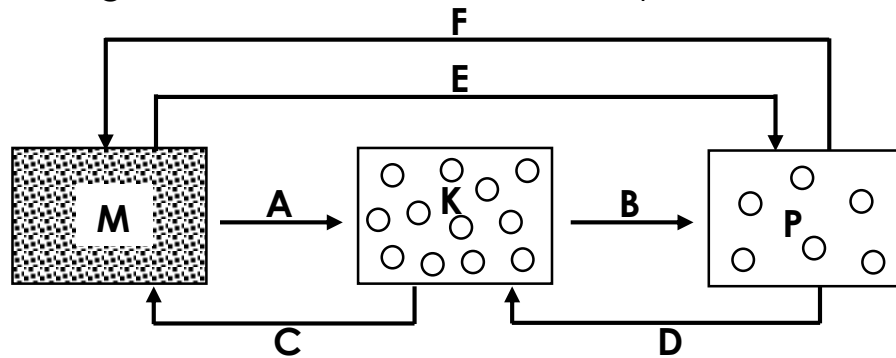
- (i) kinetic energy

- (ii) potential energy

b) Write down three forms of energy.

- (i) _____
- (ii) _____
- (iii) _____

13. Use the diagram below and answer the questions that follow.



a) Identify the states of matter marked;

- (i) M _____
- (ii) K _____
- (iii) P _____

b) State the physical change marked;

- (i) A _____
- (ii) D _____

14.a) Why are gaps left between railways during construction?

b) What would happen to electric wires on the following days?

(i) cold days

(ii) hot days

15.a) Why are ventilators located on higher levels than windows and doors?

b) State the importance of proper ventilation in a house.

16. In which state of matter does heat travel.

a) fast

b) faster

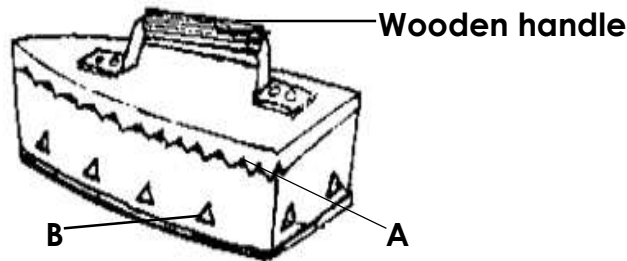
c) fastest

17. Mention two importance of cooking food.

(i)

(ii)

18. Use the diagram below to answer the questions that follow;



a) Give the function of holes shown in the diagram above.

(i) A

(ii) B

b) Why is an iron box made of a wooden handle?

19.a) How does a human body cool itself on hot days?

b) Give one difference between heat and temperature.

20.a) Give two conditions necessary for rusting to take place.

(i) _____

(ii) _____

b) How is rusting similar to germination?

c) Write down two possible ways of controlling rusting in metals.

(i) _____

(ii) _____

-End-