

NAME.....signature.....

Personal number

Physics

(Theory)

CBC

Time. 2 hours

PHYSICS DEPARTMENT

ST FRANCIS OF ASSIS HIGH SCHOOL

Lower secondary education

Competence Based Curriculum (C.B.C) Examination

Physics s1

Time .2 hours

INSTRUCTIONS;

- Attempt all questions. Answers to all questions must be written in spaces provided and 5 on answer sheets .

Number	Marks	Signature
1		
2		
3		
4		
5		

1.



a) Identify and name each of the human activities shown above

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b) Explain briefly how each of the above human activities affect the global warming

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- c) What solutions and recommendations do you think humans can make in order to reverse or slow down the destructive path of rising global warming?

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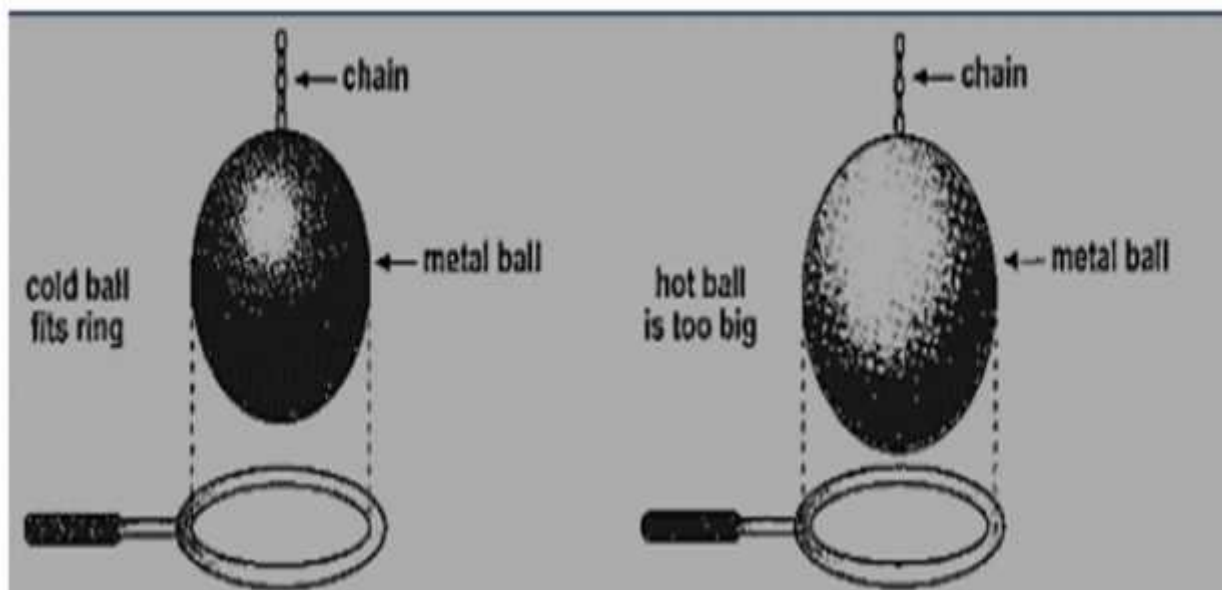
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- d) What is the relationship between greenhouse effect and global warming?

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Expansion of solids can be illustrated using a metal ball with a ring as shown below.



a) What is the best title for the above experiment?

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b) State what is observed in the above shown experiment.

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c) Use particle theory of matter to explain the above observation

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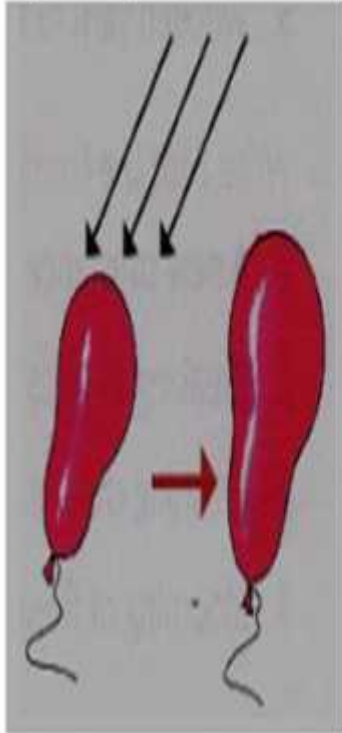
d) What conclusions can you draw from the above experiments shown above?

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3. use kinetic theory of matter .

If you keep an inflated balloon in the sun for some time, what will happen?



a) State and explain your observation.

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b) Explain what would happen if the balloon was put in ice cold place?

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Explain why balloons burst at the functions during hot weather.

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4.

11. In each of the following examples, identify whether heat is being transferred through conduction, convection or radiation. Some may have two possible answers. Choose the answer that best fits the situation.

9)



Freezing outside
on a cold day.

10)



Steam piping out
of a teapot.

11)



Burning your hand
on a hot pan

12)



Ice cubes keeping
lemonade cold.

13)



Laying out in
the sun.

14)



Roasting marsh-
mallows over a fire.

15)



Making toast
in a toaster.

16)



Heating a kettle
on a hot furnace.

5.

One of your friends works at the parking yard in a certain hotel which is in a very hot part of northern Uganda in kitgum district. You visited him one day and discovered that the parking yard is an open place with no shelter from the extreme harsh hot weather conditions. He then informed you that the main problem he faces at his work place is that most customers who visit the hotel always quarrel with him over flat tyres (tire blowouts) at the time of their departure.

SUPPORT MATERIAL



- Help your friend understand the cause of such a phenomenon. Explain to your friend why the tyres are flat (brownout)?
- What recommendations or advice would you offer to your friend to ensure such scenarios don't repeat itself again?
- What conclusions can you draw from such a scenario (what is the relationship between heat and matter)?

