

Energy and Heat Revision

1. What is Energy?

2. What is another name for stored energy? _____.

3. There are 3 main types of stored energy:

(1) _____ eg. a stretched rubber band, windup toy.

(2) _____ eg. candle (wax) is burning to give out light and heat

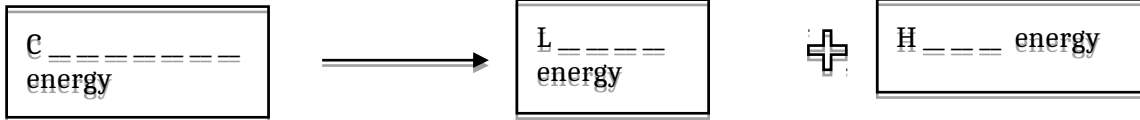
(3) Gravitational Potential energy eg. _____

4. How do we measure energy? _____

5. What is the meaning of "Changing Energy"?

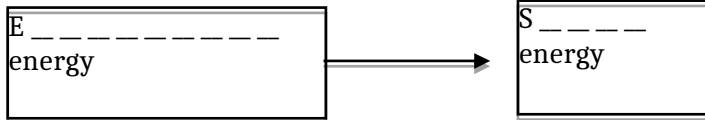
6. State the changing energy:

a) flashlight's batteries

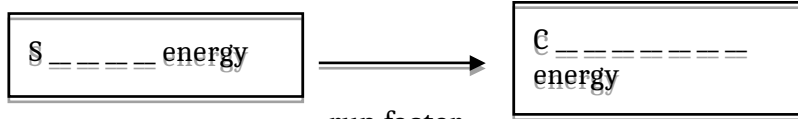


b) talking

on the phone

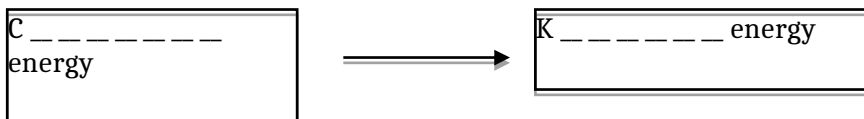


c) green plants undergo photosynthesis



run faster.

d) Eating high energy food and drink, so that you can



e) Write down all the energy changes in playing a DVD disc connected to a TV.

7. Which of the 3 heat transfer methods occur in liquids and gases? _____

8. How does conduction take place? (using the key words: particles, colder end, vibrating faster, solid only, hotter end)

9. Explain how water is boiled in an electrical kettle.

10. Pan handles are usually made of plastic or wood. Explain.

11. The sun provides us HEAT and LIGHT energy. Name the method of heat transfer from the Sun to the Earth.

12. What makes the above heat transfer method different from convection and conduction?

13. Why do people wear light or white clothes in the summer?

14. These terms are related to Radiation of Heat: good reflector of heat, good radiator (emitter) of heat, poor radiator, good absorber of heat, poor absorber.

Find the correct term for the following:

a) Darker surface like the bitumen _____

b) Silvery tea pot containing hot water _____ (so that hot water can be kept warmer for a longer time).

c) Hot black object is a _____.

d) Black and dark coloured cars are _____.

e) The silvery shaded is used in the hot day because it is a _____.

15. Why do animals with thick fur can live well in colder region?

16. What is the use of thermometer? How does a thermometer work?
