



# Science

Grade 6





## Heat and Its Effects

### Heat Generation

### Effects of heat

### The Effects of heat to the environment

#### Pre learning

1. How do you feel when you are at a place under the sun?
2. How do you feel when it is raining?
3. What type of clothes are worn in rainy days?
4. How you have felt when you were playing in the sun by wearing black clothes?
5. Where do polar bears live and why do they have a thick fur coat?
6. Mention instances where you use heat in day today activities.
7. How do you usually guess that somebody is having fever? How does a doctor confirm same at the hospital?

#### Write answers by reading your text book

##### 01. Match A and B.

| A   | B                                   |
|---|-------------------------------------|
| The normal human body temperature                           | Serpent                             |
| Changes body temperatuer with the environmental temperature | 37 °C                               |
| Important to keep the body warm                             | The Sun                             |
| A source of heat energy                                     | Solar cooker                        |
| Use to heat water ar home                                   | Have a thick subcutaneous fat layer |

##### 02. What are the main climatic zones of the earth?

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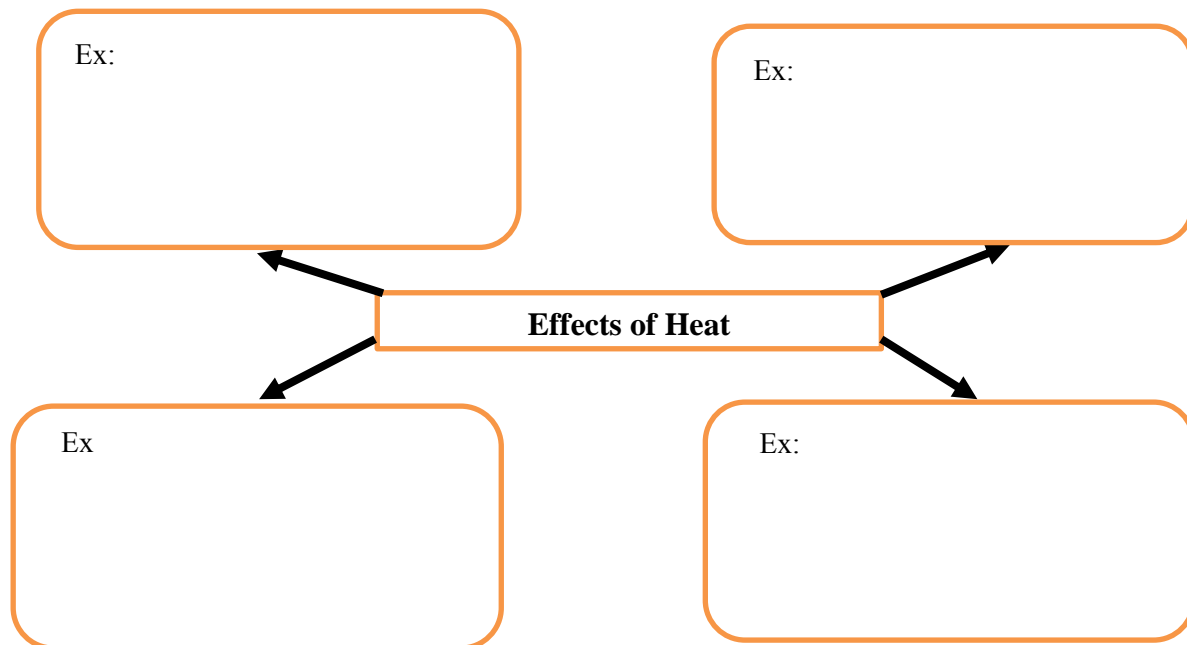
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03. What are the different heat generation methods used at home?

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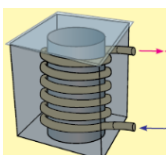


05. Write your observations and conclusions in the following instances..



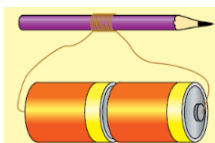
Observation:

Conclusion :



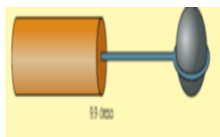
Observation:

Conclusion :



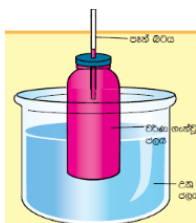
Observation :

Conclusion :



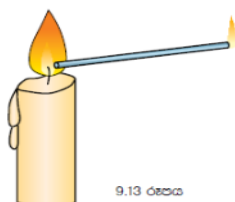
Observation:

Conclusion:



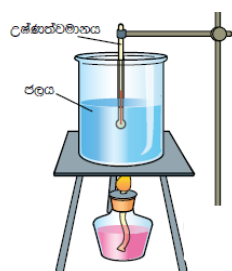
Observation:

Conclusion



Observation

Conclusion:



Observation:

Conclusion:

06. Draw a simple experimental set up to show the expansion of gases. How do you conclude that the gases are expanding by using your set up?

07. Give two examples for each of the following physical changes.

| Change of state                | Instances |
|--------------------------------|-----------|
| Solid $\longrightarrow$ Liquid | 1.<br>2.  |
| Liquid $\longrightarrow$ Gas   | 1.<br>2.  |
| Liquid $\longrightarrow$ Solid | 1.<br>2.  |

08. What are the unfavourable effects of heat on the environment?



### **Post Learning**

1. List household electrical instruments which produce heat for different purposes.
2. What is the mechanism used in electric irons to control the heat level (as a thermostat)?
3. What is the silver colour liquid found inside a liquid in a glass thermometer?
4. Which property of that liquid is used in measuring temperature?
5. Find data for average temperature of capitals of each district of Sri Lanka and mark them in a map.
6. Colour the desert areas in orange and icy areas in blue colour in a world map.
7. Explain how the human activities effect on increasing the global temperature.
8. What can you do to minimize such harmful effects discussed in the above question?

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