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## Heat and Light

We get heat and light from the Sun. The Sun is the biggest natural source of light and heat. Sun rays keep the Earth, air and water warm.



Apart from the Sun, we get light from the Moon and the stars.



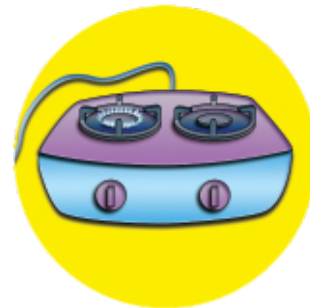
Many sources of heat and light have been discovered by human beings. These include wood, electricity, oil and gas.



Burning wood



Lit electric bulb



Gas burner

Activity 1

Mark (✓) on natural sources of light and (✗) on man-made sources.



Lantern



Sun



Moon and stars



Torch

Activity 2

Write down the names of some of the sources of heat and light found in your surroundings.

- (i) \_\_\_\_\_ (ii) \_\_\_\_\_ (iii) \_\_\_\_\_
- (iv) \_\_\_\_\_ (v) \_\_\_\_\_ (vi) \_\_\_\_\_

We see things with the help of light. We use heat for cooking and to keep our homes warm.

Heat is also produced by rubbing our hands. In winter, some people warm their hands by rubbing them. In this way, less cold is felt.

Intensity of light and heat depends upon the distance from their sources.



**Activity 3**

Who is receiving less light, Aamna or Ali and Why?



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**Activity 4**

Who is receiving less heat, Asia or Zain and why?



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## EXERCISE

1. Answer the following questions:

- (i) From which source do we get more light and heat?
- (ii) Which source of heat is used in your home for cooking?
- (iii) On what factor does intensity of heat and light depend?
- (iv) Name two methods for producing heat.

2. Mark (✓) on correct and (✗) on wrong sentences.

- (i) Heat is produced during the burning of a gas.
- (ii) Electricity is the biggest source of light.
- (iii) Burning of wood produces only light.
- (iv) By rubbing hands, less cold is felt.
- (v) More heat is felt while moving away from burning object.



### Activity

Rub your hands against each other for some time, and then touch your cheeks with them. What do you feel?

### Instructions for the teacher

Tell the children about the importance of heat and light.