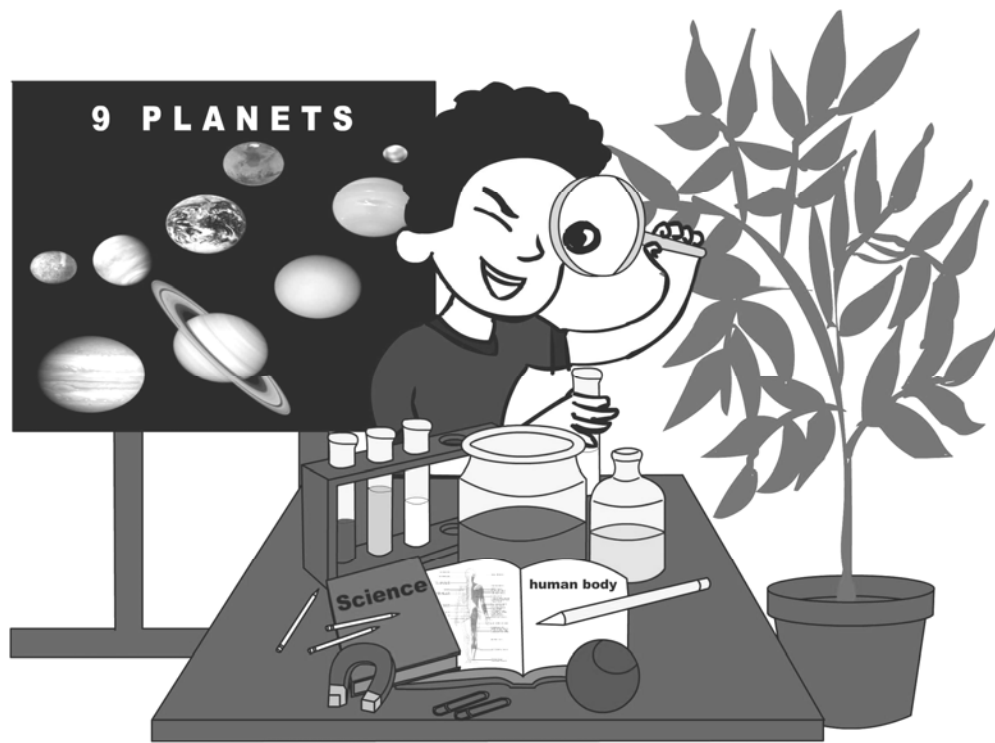


Science and Health

EFFECTS OF HEAT





To The Learner

We learned in our past lessons that the sun's heat and light is very useful to living things in many ways. But sometimes the sun's heat can be harmful to living things. This module discusses the effects of sun's heat to man, animals and plants.



Something To Learn

Infer that heat and light from the sun can burn the skin and hurt the eyes.

Infer that heat and light from the sun can kill plants and animals.



Let's Try This With Fun

Encircle the letter that has the correct answer.

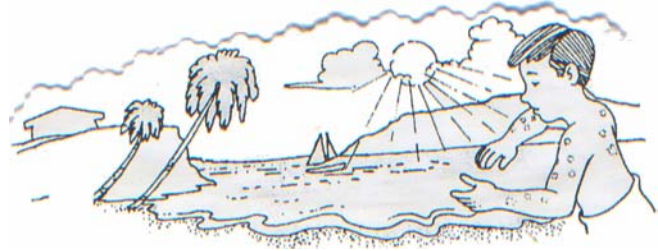
1. When a boy walks under the sun for too long, which part of the body is easily affected?
a. heart b. skin c. lungs
2. Which part of the body is damage when you look directly at the sun?
a. skin b. eyes c. feet
3. If you stay on the beach the whole day, sunlight can be harmful to your skin, this will cause ____?
a. sunburn b. skin cancer c. both a and b
4. Which situation shows effects of heat from the sun?
a. the plants are healthy and strong
b. the plants are yellow and weak
c. the plants are green and big
5. The boy after playing outside keeps scratching his itchy skin. What could have caused this?
a. He is allergic to his toys and playmates
b. He is overexposed to the sun's heat and develop sunburn
c. both a and b



Let's Study This

How do you feel when you walk or stay long under the sun's heat at noontime?

Do you observe something to your skin?



The sun gives off some light rays called ultra-violet rays which can damage skin cells and do harm to the body. It can cause sunburn, skin cancer and other skin irritations. It is also powerful that it can kill germs.



How do your eyes feel if you look straight at the sun?

Looking directly at the sun can cause damage to the eyes. It may cause blindness or eye disorder.

A. Activity:

How do the sun's heat affects plant life and animal life?



Together with a classmate or a friend, try to do this activity by following these simple steps.



STEPS:

1. Get 2 potted plants of the same kind and size.
2. Label the pots A and B.
3. Water the pots with the same amount of water.
4. Place pot A under the heat of the sun and pot B under the shade.
5. Leave the 2 pots in their area for 5 days without watering them.
6. Record your observations after 5 days.

Questions:

1. What happen to the plant in pot A?
2. What happen to the plant in pot B?
3. What do you think is reason why it happen to plant A?

Observe the pictures below.



Too much sunlight can make the soil dry. When it happens the soil hardens and cracks. Plants need water in order to live, when the land are too dry because of too much heat plants will die.

Animals depend on plants for food. When there are few plants, animals will have less to eat. They become sick and eventually die of hunger.

What do animals eat? What happens to animals if plants will die?

LET'S TRY THIS AGAIN

Encircle the letter that has the correct answer.

1. Which ailment is characterized by red, itchy and swollen eyes?
a. colds b. sore eyes c. sore throat
2. Which ailment is caused by too much exposure to the heat of the sun?
a. cough b. skin cancer c. fever
3. Plants die because the soil becomes hard and cracks. This happen because?
a. too much heat make the soil dry
b. too much water will make the soil soft
c. all of the above
4. When the fields are dry, the soil hardens and cracks. When lands are too dry plants will die. Why do animals die when these happens to the plants?
a. because plants and animals are friends
b. because plants need animals as foods
c. because animals depends on plants for food
5. Which situation shows effect of heat?
a. the plants are healthy and strong
b. mother cow plays with its baby calf
c. the boy keeps scratching his itchy skin

Check your answer with the answers key. If you got high score, congratulations! You may proceed to the next activity.



Let's Remember This

Heat and light from the sun can burn the skin, hurt the eyes, and may kill plants and animals.



Work This Out

Encircle the letter that has the correct answer.

1. Why is it not good to look directly at the sun?
 - a. the sun will damage your eyes
 - b. the sun will damage your face
 - c. the sun will damage your skin
2. What do you think will happen if you stay at the beach the whole day without wearing protection?
 - a. you will become blind
 - b. you will get sunburn
 - c. you will become healthy and strong
3. Which body part will be damaged when you look directly at the sun?
 - a. skin
 - b. eyes
 - c. feet
4. What does the sun give off that is powerful enough to kill germs?
 - a. energy
 - b. ultra-violet rays
 - c. gamma rays
5. What do you think might happen to plants if you will expose it to sunlight for many days without watering them?
 - a. plants will die
 - b. plants will grow
 - c. plants will turn green

Check your answers on the answer key. If you got high score, congratulations! It means you understand your lesson.



My score

Answer Key



Let's Try This With Fun

1. b
2. b
3. c
4. b
5. b



Let's Study This

1. The plant will die.
2. Will Still live.
3. Because of too much heat.



Let's Try This Again

1. a
2. b
3. a
4. c
5. a



Work This Out

1. a
2. b
3. b
4. b
5. a