

**GREENHILL PRIMARY SCHOOL BUWAATE**  
**P.3 LITERACY ONE WORK**

NAME: \_\_\_\_\_ STREAM: \_\_\_\_\_

WEEK 2

Day one

**Shadows and opaque objects**

**What is a shadow?**

A shadow is a region of darkness formed when light is blocked by an opaque object.

**What is an opaque object?**

An opaque object is an object that does not allow light to pass through.

**How is a shadow formed?**

A shadow is formed when light is blocked by an opaque object.

**Activity**

Stand outside your house and observe the shadow at 9:00 a.m., 12:00 (noon) and at 5:00 p.m.



Morning/evening time



12:00/noon/mid-day

**Note:**

- Shadows are longer at sunrise and sunset.
- Shadows are shortest at mid-day and noon because the sun is directly overhead the object.

## EXERCISE

1. What is a shadow?

---

---

2. How is a shadow formed?

---

3. Give any two examples of opaque objects.

(i) \_\_\_\_\_ (ii) \_\_\_\_\_

4. At what time of the day are shadows;

(a) shortest? \_\_\_\_\_

(b) longest? \_\_\_\_\_

5. Why are shadows shortest at the time mentioned in 4(a) above?

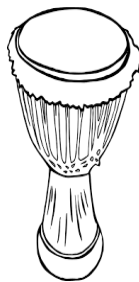
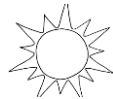
---

6. What is an opaque object?

---

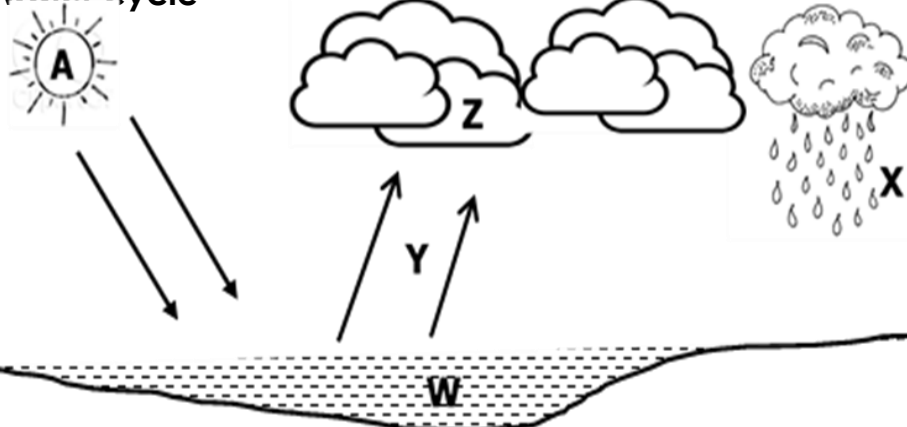
---

7. Draw the shadow of the object below.



## Day two

The water cycle



### Components

A – the sun

W – water body

Y – water vapour

z – clouds

X- rain

### The processes at

W – evaporation

Z – condensation

### The process of rain formation (water cycle)

During rain formation,

- The sun **heats** water bodies and plants.
- **Evaporation** and **transpiration** take place.
- Water vapour rises and **condenses** to form nimbus clouds.
- When the clouds become heavy, they fall down as rain.

### Uses of the sun in the water cycle

- It heats water bodies to cause evaporation.
- It heats plants to cause transpiration.

### EXERCISE

1. What is the use of sun in the water cycle?

\_\_\_\_\_

2. By what process are nimbus clouds formed from water vapour?

\_\_\_\_\_

3. In four sentences, explain how rain is formed.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(iii) \_\_\_\_\_

(iv) \_\_\_\_\_

4. How are plants useful in the water cycle?

\_\_\_\_\_

5. In which way is rainfall useful to a crop farmer?

\_\_\_\_\_

### Day three.

#### Importance of rainfall

- Rain provides water for drinking.
- Rain water is used for washing.
- Rain water is used for watering plants.
- It softens soil to ease plant growth.
- It cools down temperature.

#### Dangers of heavy rainfall

- Leads to soil erosion.
- Lightning can strike people and other animals.
- It breaks down houses and crops.
- It leads to floods.
- It destroys marram roads

#### How to control the above problems.

- By practicing better methods of farming like terracing and contour ploughing.
- By putting lightning conductors on the roofs
- Planting trees to act as wind breaks
- Avoid swamp drainage
- Tarmacking roads

### EXERCISE

1. Give any two uses of rainfall to people.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

2. How can lightning be controlled on buildings?

\_\_\_\_\_

3. How is trees planting a good practice in our environment?

\_\_\_\_\_

4. State one way of controlling floods in an area.

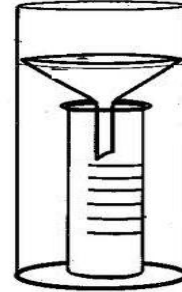
\_\_\_\_\_

## Day four

### **How rainfall is measured.**

- A **rain gauge** is the weather instrument for measuring the amount of rainfall received.

Rain is measured in **millimeters**.



rain gauge

### Natural sources of water

- rain
- Rives
- Lakes
- Streams
- Oceans
- swamps

### Artificial sources of water.

- Bore holes
- Ponds
- valley dams

### **Note:**

Rain is the main natural source of water in our environment because it supplies water to all the other sources.

## EXERCISE

1. Name any two;

(a) Natural sources of water

(i) \_\_\_\_\_ (ii) \_\_\_\_\_

(b) Artificial sources of water

(i) \_\_\_\_\_ (ii) \_\_\_\_\_

2. Why is rain referred to as the main natural source of water in our environment?

\_\_\_\_\_

3. State the importance of a rain gauge to people.

\_\_\_\_\_

4. In what units is rainfall measured?

\_\_\_\_\_

## Day five

### Water harvesting

Water harvesting is the collection of rain water for domestic use.

### Ways of harvesting water

By collecting water from roof tops;

Using tanks, pots, saucepans, jerry cans, drums, and basins.

### Items used in harvesting water

- Tanks
- Buckets
- Basins
- Digging valley dams
- Jerry cans

### Importance of water to people

- It is used for cooking
- It is used for washing clothes
- It is used for drinking
- It is used for r washing utensils
- It is used for r irrigation

### Importance of water to plants

#### To plants

- It helps plants to make their own food
- It helps the seeds to germinate

## Exercise

1. Name the main natural source of water.

\_\_\_\_\_

2. How is water useful to a frog?

\_\_\_\_\_

3. Why do people harvest rain water?

\_\_\_\_\_

4. State one way people harvest rain water.

\_\_\_\_\_

5. Name any two items used to harvest rain water.

(i) \_\_\_\_\_ (ii) \_\_\_\_\_

6. State any two uses of water to people.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_