



## GRADE 1V THE REVOLUTION OF THE MOON AROUND THE EARTH

*At the end of the module, you should be able to:*

- *Prove that moon travels around Earth*
- *Explain that the moon travels around Earth once about every  $29 \frac{1}{2}$  days*



### Try to Recall

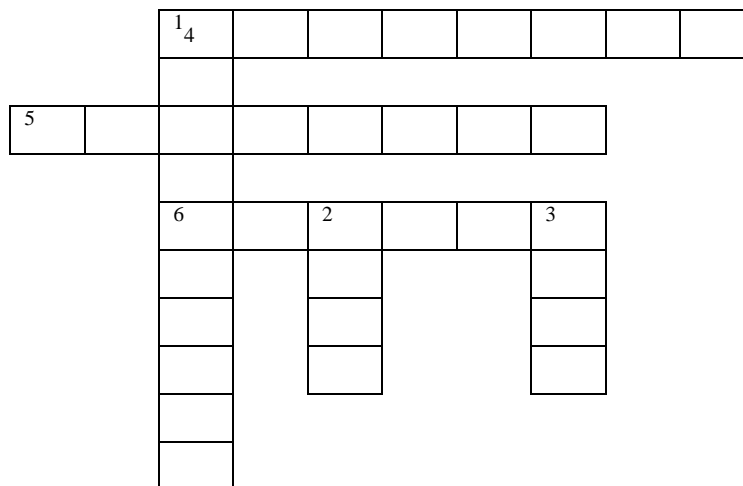
**Answer the crossword puzzle about the revolution of the earth. The clues below will help you. Write the answer in your notebook.**

#### DOWN

1. The circular movement of the earth around the sun as it rotates on its axis.
2. An imaginary line that runs through the middle of a celestial body.
3. The time it takes the earth to revolve around the sun

#### ACROSS

4. The spinning of the earth on its axis in a counter clockwise direction.
5. The change in direction or a change in position of an object or a body.
6. It usually occurs every four years





## Explore

*Have you ever observed the moon especially during nighttime when it is round and bright? Do you see the same size and shape everytime you observe the night sky? Why is it so?*

**Do the following activities:**

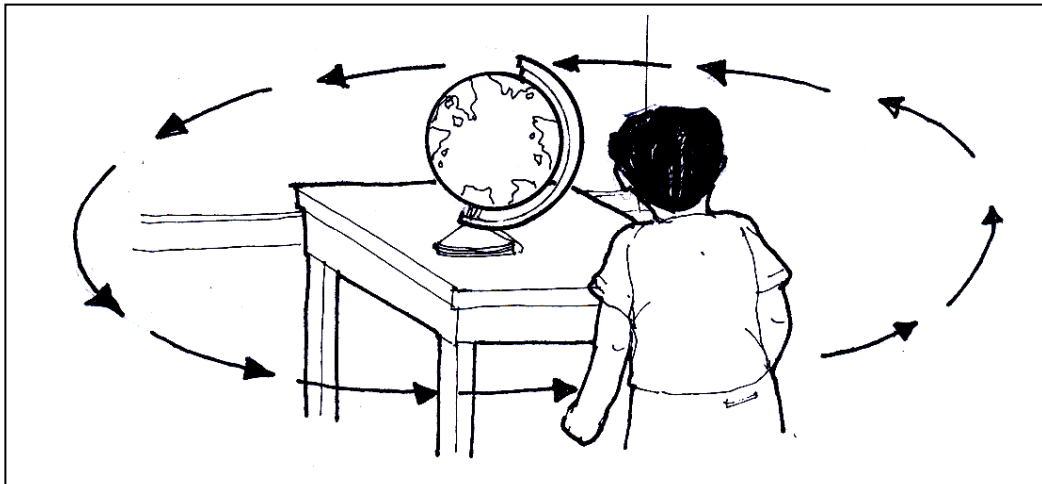
### ACTIVITY 1

- You will need:**

- globe or a big ball
- table

**Do these:**

- Place a globe or a big ball on a table.
- Stand facing the globe or a big ball.
- Turn counterclockwise around the table with your face toward the globe.
- Observe the direction of your shoulder pointing toward the globe as you turn around until you reach the place where you started. Then stop.





- **Answer these:**

1. Did you turn away from the globe at anytime as you moved around the table?  
Why?
2. Did you also turn around yourself?

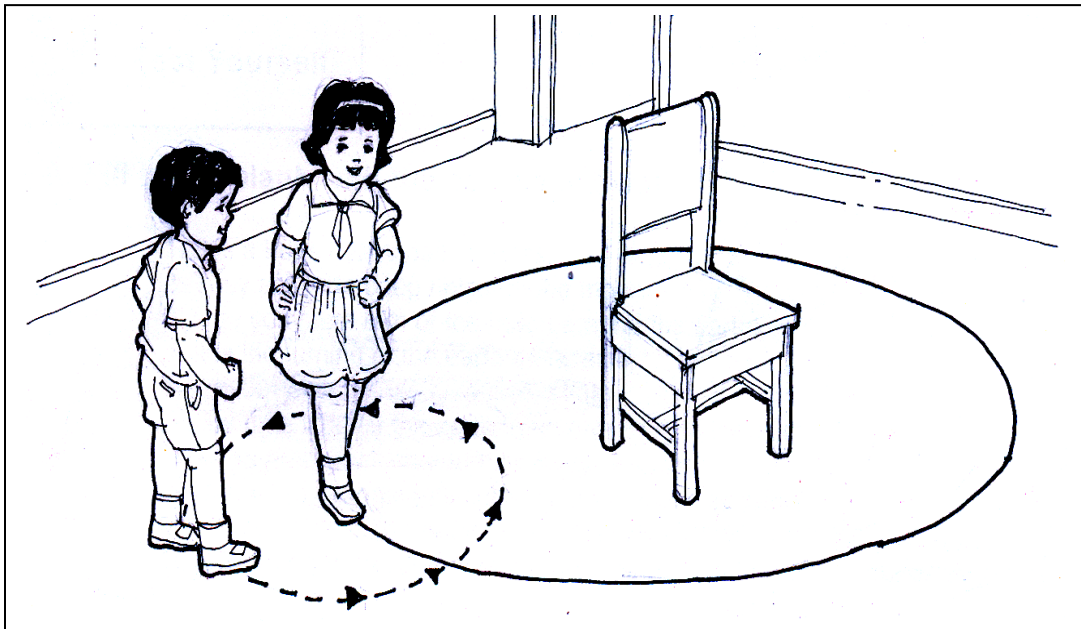
## **ACTIVITY 2**

- **You will need:**

- chair
- friend

**Do these.**

- **Place the chair on the center of the room. It will represent the sun.**
- **Draw a line around the chair. It will represent the orbit.**
- **Let your friend stand beside you. He will represent the moon.**
- **As you turn around and move on the orbit, your friend will move around you. Your friend will face towards you as he moves.**





### Read and Learn More:

The moon is the earth's satellite. It is a huge, heavy ball of rocks. If you look at the moon through a telescope, you can see its surface made of dead volcanoes and big craters. It seems very beautiful at night but actually it has many craters.

The moon revolves continuously around the earth and at the same time, it rotates on its axis. One complete turn of the moon around the earth takes about  $27 \frac{1}{3}$  days. The moon also revolves around the sun.

The moon is not made of gases. It is as hard as the earth. The moon does not produce its own light. It reflects light from the sun and throws back the light to us. It acts as a large mirror in space, reflecting the light of the sun.

I learned that:

- The moon moves around the earth as it moves around the sun.
- The moon travels around the earth once every  $27 \frac{1}{3}$  days



### Apply It

- Does the moon move? If so, what movement does it make?
- Draw a model of a sun, earth and moon and how they revolve with each other.
- Compare the rotation of the earth with the rotation of the moon.
  - a. In what ways are they similar?
  - b. In what ways are they different?
- Explain how the moon revolves around the earth once every  $29 \frac{1}{2}$  days.



### Test Yourself

1. Explain how the moon travels around Earth to make one complete revolution.  
You may use a diagram to explain your answer.