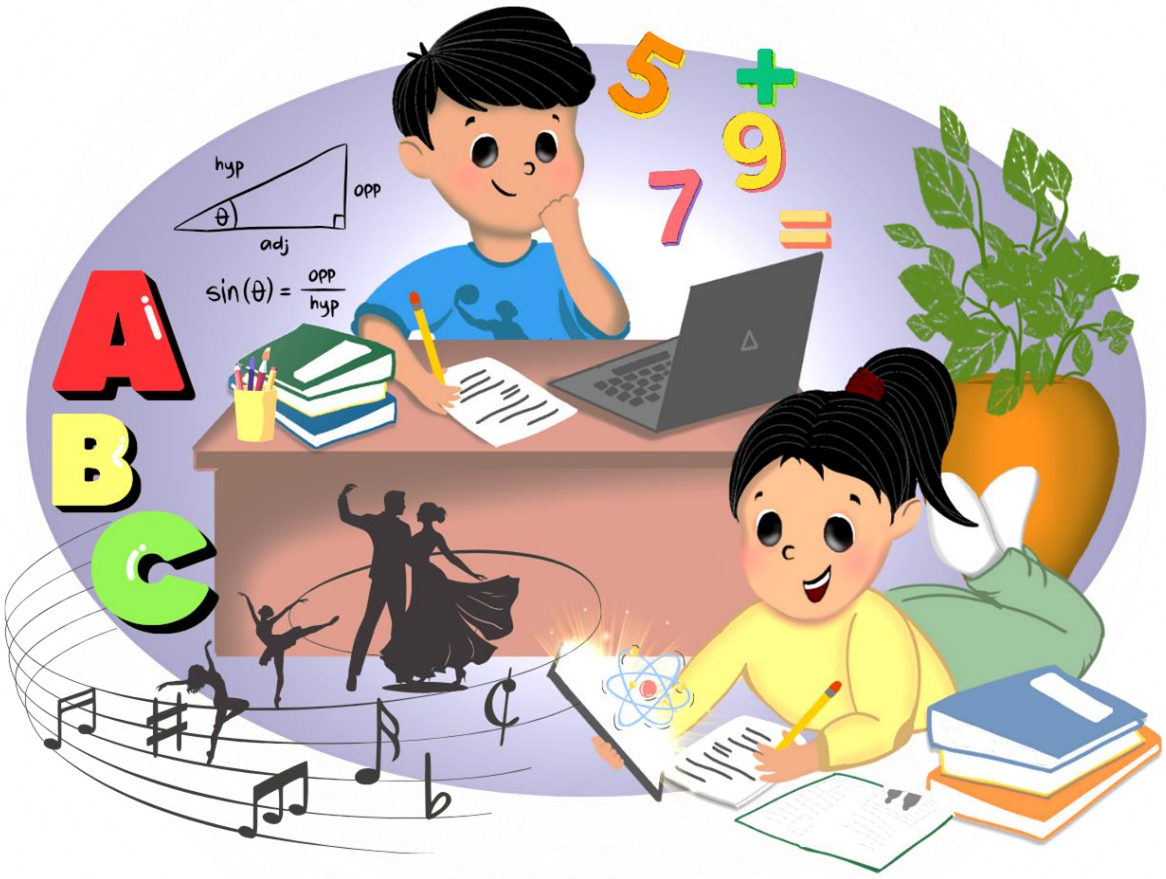
4

Science 4
Microlearning Module

QUARTER 3 – Module 3

Speed



Microlearning Module

REGION XII - DIVISION OF SULTAN KUDARAT

Microlearning Module (MLM)
Quarter 3 – Module 3: Speed
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MICROLEARNING MODULE

Name: _____Grade & Sec: _____ Score: _____
Subject: Science 4 Quarter: 3 MLM No. 3
Teacher: _____
Learning Competency: **The learners identify that how far an object moves in a given time is called speed.**

Speed

A. Look Back!

Directions: Read each statement carefully and choose your answer from the words inside the box. Write your answers on a separate sheet.

_____1. It is a fixed place, or an object used to determine the position of an object.
_____2. It refers to the distance an object travels to reach a specific location.
_____3. It is the standard unit for distance.
_____4. It is the measure of how far or near two points are from one another
_____5. It is the world standard for measurement.

meter	metric system	distance
motion	reference point	

B. What's New?

What does this picture show?

Suppose the athletes run in the oval every morning. They usually run around it for 50 seconds. How fast are they running every day if a typical track and field oval is 400 meters?

C. What Is It?

Motion is described as a change in position. **Speed** describes the rate of motion of an object. It is the distance an object travels or moves in a given time. The distance covered by the moving object is affected by its speed, or the measure of how fast it moves. The faster it moves, the shorter the time it takes for it to cover a certain distance, and the slower it moves, the less the distance that it covers.

Speed can be solved by dividing the distance covered by an object in motion by the time spent to cover the distance.

Speed is measured in meters per second (m/s) or kilometers per hour (km/h or kph).

This can be expressed as:

Speed= distance covered/time or S=d/t

Example 1: If a car travels at 500 meters in ten seconds, what is the speed of the car?

Given: distance = 500 meters
time = 10 seconds

Solution:

$$\text{speed} = \frac{\text{distance}}{\text{time}}$$

$$\text{speed} = \frac{500\ \text{m}}{10\ \text{s}}$$

$$\text{speed} = 50\ \text{m/s}$$

Example 2: A jeepney travels from station A to station B at 150 kilometers in 3 hours. What is the speed of the jeepney?

Given: distance = 150 kilometers
time = 3 hours

Solution:

$$\text{speed} = \frac{\text{distance}}{\text{time}}$$

$$\text{speed} = \frac{150\ \text{km}}{3\ \text{hrs}}$$

speed= 50 km/h or 50 kph

D. Let's try!

Activity 1: What's My Speed?

Directions: Determine the speed. Write your answer on a separate sheet of paper.

1. A swimmer takes 25 seconds to complete a 50- meter freestyle. Compute for the speed of the swimmer.
2. What is the speed of the tricycle if the distance it travels is 240 kilometers in 4 hours?

Activity 2. Fill Me In!

Directions: Complete the table by solving for the speed of cars 1,2, and 3. Write your answers on a separate sheet of paper.

Car	Distance travelled	Time	Speed
1	100 m	10 s	
2	100 m	20 s	
3	100 m	25 s	

Guide questions:

1. Which car is the fastest?
2. Which car is the slowest?
3. What is the speed of car A?
4. Arrange the cars from fastest to slowest.

Activity 3: How Fast I Travel?

Directions: Solve for the speed of the eagle. Write your answer on a separate sheet of paper. Show your solution.

It takes 2 hours for a Philippine monkey-eating eagle to fly from Mt. Kitanglad to Mt. Apo a distance of 125 kilometers. Find the speed of an eagle.

E. Let's Evaluate

Directions: Solve for the speed of the following vehicles (2 points each). Write your answer on a separate sheet of paper.

Bus	Distance travelled	Time	Speed
A	80 km	4 hours	
B	50 km	5 hours	
C	90 km	6 hours	
D	60 km	4 hours	
E	100 km	10 hours	

F. References

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ANSWER KEY

A. Look Back!

1. reference point
2. time
3. meter
4. distance
5. Metric system

B. What's New?

20 m/s

D. Let's Try

Activity 1**.**

1. 2m/s
2. 60 km/h or 60 kph

Activity 2. Car 1 – 10m/s
Car 2 – 5 m/s
Car 3 – 4 m/s

Questions:
1. Car 1
2. Car 3
3. 10m/s
4. Car 1, Car 2, Car 3

E. Evaluation:

Bus A – 20 kph
Bus B – 10 kph
Bus C – 15 kph
Bus D – 15 kph
Bus E – 10 kph

DISCLAIMER

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