

GRADE 10 CORE MATHEMATICS TERM 3 LESSON PLANS - KICD
CURRICULUM DESIGN

Grade 10 Core Mathematics LESSON PLAN: Week 1, Lesson 1

SCHOOL	LEVEL	LEARNING AREA	DATE	TIME	ROLL
.....	Grade 10	Core Mathematics			

WEEK 1: LESSON 1

Strand:

Measurements and Geometry

Sub Strand:

Linear Motion

Specific Learning Outcomes:

By the end of the lesson, the learner should be able to:

- Explain distance, displacement, speed, velocity, and acceleration in real-life situations.
- Differentiate scalar and vector quantities in linear motion.
- Appreciate the concept of motion in daily life.

Key Inquiry Question(s):

- What is speed?

Core Competencies, Values, and PCIs:

Core Competencies	Values	PCIs
Critical thinking and problem solving	Responsibility	Road safety awareness
Communication and collaboration	Respect	Life skills

Learning Resources:

- Grade 10 Core Mathematics Curriculum Design
- Tape measure, stopwatches
- Digital devices, chalkboard illustrations

Organization of Learning:

Introduction (5 minutes):

- Teacher asks two learners to walk from one corner of the classroom to another via different paths.
- Class briefly discusses the difference between the total path covered and the straight-line distance between the two points.

Lesson Development (25 minutes):

- **Step 1:** Teacher guides learners to define distance (scalar) and displacement (vector), highlighting magnitude and direction.
- **Step 2:** Teacher introduces speed as rate of change of distance and velocity as rate of change of displacement, defining acceleration as rate of change of velocity.
- **Step 3:** In pairs, learners classify given physical motion quantities into scalar and vector categories on a comparative chart.
- **Step 4:** Selected pairs present their classification tables to the class for review and teacher feedback.

Conclusion (10 minutes):

- Formative oral assessment: Teacher poses quick-fire questions to check learner understanding of scalar versus vector quantities.
- Teacher summarizes key differences between speed and velocity, reinforcing standard SI units (m, m/s, m/s²).

Extended Activities:

- Learners write a one-paragraph reflection describing their journey to school, distinguishing sections involving high speed versus zero velocity.

Teacher Self-Evaluation:

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