

Grade 10 Mathematics Lesson Plan

Speed and Velocity

Strand:	Measurement and Geometry
Sub-Strand:	Linear Motion
Specific Learning Outcome:	Explain the terms distance, displacement, speed, velocity and acceleration in real-life situations and determine velocity and acceleration in different situations
Duration:	40 minutes
Key Inquiry Question:	How is Linear Motion applied in day-to-day life?
Learning Resources:	CBC Grade 10 textbooks, stopwatch, measuring tape, ball/round object, calculators

Phase 1: Problem-Solving and Discovery (15 minutes)

Students conduct rolling ball experiment and solve average speed problem.

Phase 2: Structured Instruction (10 minutes)

Teacher formalizes speed and velocity concepts.

Key Formula: $\text{Speed} = \text{Distance} / \text{Time}$

$\text{Average speed} = \text{Total distance} / \text{Total time}$

Phase 3: Practice and Application (10 minutes)

Students work through examples from textbook.

Phase 4: Assessment (5 minutes)

Exit ticket with 4 questions.