

GRADE 10 GENERAL SCIENCE TERM 3 LESSON PLANS - MENTOR

Grade 10 General Science LESSON PLAN: Week 1, Lesson 1

SCHOOL	LEVEL	LEARNING AREA	DATE	TIME	ROLL
.....	Grade 10	General Science			

WEEK 1: LESSON 1

Strand:

Natural Physical Science

Sub Strand:

Turning Effect of Force – Meaning of Moment of Force

Specific Learning Outcomes:

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

- Define moment of a force at a point.
- Identify turning points in everyday tools.
- Relate turning effect of force to opening doors and using spanners.

Key Inquiry Question(s):

- How is the turning effect of force used in our daily life?

Core Competencies, Values, and PCIs:

Core Competencies	Values	PCIs
Critical thinking and problem solving	Responsibility	Safety education in handling tools
Communication and collaboration	Respect	Critical inquiry

Learning Resources:

- Mentor General Science pg. 221
- Spanners, door handles, scissors, digital devices

Organization of Learning:

Introduction (5 minutes):

- Teacher asks learners to open the classroom door and observe where they push or pull.
- Learners share what happens when they push near the hinge versus at the door handle.

Lesson Development (25 minutes):

- **Step 1:** Teacher introduces the concept of the turning effect of force (moment of force) and defines the pivot or fulcrum as the fixed turning point.
- **Step 2:** Learners in pairs inspect common items (scissors, spanners, pliers, door handles) and identify their fixed pivots and points of force application.
- **Step 3:** Learners use digital devices or print media to research the technical definition of moment of a force and record their findings.
- **Step 4:** Selected groups demonstrate how spanners and scissors rotate around their pivots, explaining how force creates rotational movement.

Conclusion (10 minutes):

- Teacher poses quick oral questions on the definition of moment of force and identification of pivots.
- Summary of key points: Moment of force is the turning effect produced when a force acts about a pivot.

Extended Activities:

- Learners identify five tools used at home that rely on a turning effect and sketch their pivot locations in their notebooks.

Teacher Self-Evaluation:

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Grade 10 General Science LESSON PLAN: Week 1, Lesson 2

SCHOOL	LEVEL	LEARNING AREA	DATE	TIME	ROLL
.....	Grade 10	General Science			

WEEK 1: LESSON 2

Strand:

Natural Physical Science