

# Technology Scope

## Grade 9

### June 2023 Exam

#### Term 1

##### First-angle orthographic projection.

- Drawing the Front, top and side views
- Drawing an Isometric projection
- Line types and drawing conventions
- Drawing with instrument
- Tackling a design problem

##### Forces, Strengths and properties.

- Forces and loads acting on structures
- Strength of materials under the action of forces
- Properties of construction material

##### Mini PAT (Page 36 – 55).

- Design skills
- Making skills
- Costing and budgeting
- Evaluation skills
- Communication skills

#### Term 2

##### Pneumatic and hydraulic systems

- Pneumatic and hydraulic systems
- Calculations
- The hydraulic press
- The hydraulic jack

##### Pulleys and mechanical control systems.

- What is a pulley and how does it work?