GRADE 8

PRETECHNICAL STUDIES PP2

MARKING SCHEME

TEACHER'S SAMPLE GUIDE (FOR ILLUSTRATIVE PURPOSES ONLY)

Important Note to Teachers:

This guide is a sample and should be used to understand the nature of project-based assessments in Pre-Technical Studies. It is crucial to refer to the official KNEC guidelines, circulars, and marking schemes when they are released for the actual 2025 KJSEA. The focus of this project is on practical application, creativity, and problem-solving using locally available materials. Encourage learners to think critically and collaboratively.

1. Project Overview

This project aims to assess learners' understanding and application of concepts from Computer Studies, Technical Studies, and Business Studies in a practical scenario. Learners are tasked with designing and documenting the process of making a sieve for a porridge vendor.

2. Learning Outcomes Assessed:

i. **Computer Studies:** Identification of online and physical threats, data protection, understanding of computer systems and communication.
ii. **Technical Studies:** Application of plane geometry and freehand sketching, understanding of dimensioning techniques.
iii. **Business Studies:** Knowledge of materials and tools, understanding of ethical business practices, entrepreneurship qualities, and financial literacy.
iv. **Cross-cutting skills:** Problem-solving, creativity, critical thinking, collaboration, communication, and presentation.

3. General Procedures for Teachers:

1. **Introduction (Week 1):**
   i. Introduce the project scenario to the learners.
   ii. Clarify the instructions and assessment criteria.
   iii. Formulate groups (if applicable for parts of the project, though this paper seems individual for assessment).
   iv. Discuss the importance of the project in real-world contexts (e.g., how engineering, business, and ICT intersect).
   v. Brainstorm possible approaches and materials for the sieve.
2. **Task 1: Computer Studies (Weeks 1-2):**
   i. Guide learners through the theoretical aspects of online and physical threats.
   ii. Facilitate discussions on data protection strategies.
   iii. Review concepts of computer systems and communication.
   iv. Provide resources for learners to research and complete the questions.