KENYA NATIONAL EXAMINATIONS COUNCIL

SCHOOL BASED ASSESSMENT
SCIENCE AND TECHNOLOGY PROJECT
Grade 4 – 2024

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INSTRUCTIONS TO THE TEACHER

*(a) This paper consists of **one** performance task:*
Task: Making an air pollution detector using locally available materials.
(b) The teacher to guide learners in selecting appropriate tools, materials, equipment and digital devices for carrying out the project.
*(c) The learners should be encouraged to use locally available resources as much as possible. They should **not** buy an air pollution detector.*
(d) The teacher should ensure that the learners observe safety measures and precautions while using the various tools, materials, equipment and digital devices.
(e) The learners may share tools, materials, equipment and digital devices where applicable.
(f) The teacher will use the scoring guide provided to assess group's performance of the project.
(g) The teacher will use the group's score as the individual learner's score.

TASK: MAKING A SIMPLE AIR POLLUTION DETECTOR

(a) Individually, learners to source for information on how to make an air pollution detector from textbooks, resource persons, parents/guardians and or, the internet.
(b) In groups, learners write short notes on the information they have sourced and sketch a simple air pollution detector.
(c) In groups of not more than 8 members, learners to share information collected and discuss how to make a simple air pollution detector.
(d) Individually or in groups, learners to collect the materials they will need for making the air pollution detector from the local environment.
(e) In groups, learners to make the air pollution detector using the materials collected.
(f) Learners to display their finished product (simple air pollution detector).
(g) Learners to observe and comment/reflect on their peer's work and make suggestions for improvements.
(h) The teacher to assess the functionality and suitability of the air pollution detector made by the learners.
(i) The teacher to orally ask the learners to demonstrate to other learners how to use the detector.
(j) The teacher to orally ask the learners to explain how the detector works.

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