



# THE KENYA NATIONAL EXAMINATIONS COUNCIL

## SCHOOL BASED ASSESSMENT SCIENCE AND TECHNOLOGY PROJECT GRADE 5-2025 SCORING GUIDE

### CHECKLIST FOR THE TASK

**STRAND:** FORCE AND ENERGY

**SUB STRAND:** HEAT TRANSFER

**STANDARDS:** The learner can;

- demonstrate the modes of heat transfer in nature.
- explain the uses of heat transfer in day to day life.
- acknowledge safety precautions when using heat.

Criteria	Indicators	Maximum score	Group's score	Teacher's Remarks
Portfolio assessment	a) Evidence of relevant short notes. (1) b) Evidence of relevant sketches. (1) c) Evidence of relevant pictures. (1)	3		
Communication and collaboration	a) Actively and confidently shares information on how to make a model of the digestive system. (1) b) Does not share information on how to make the model. (0)	1		
Collecting materials for making a fireless cooker	a) Collects appropriate, enough locally available materials. (2) b) Collects appropriate but not enough locally available materials. (1)	2		
Making the fireless cooker	Aspects: <ul style="list-style-type: none"> <li>Functionality</li> <li>Aesthetics</li> </ul> a) The 2 aspects present. (2) b) Only 1 aspects present. (1)	2		
Observing safety	a) Demonstrates safe handling of materials throughout the project (2) b) Rarely demonstrates safe handling of materials throughout the project (1)	2		
Displaying the finished fireless cooker.	Aspects: <ul style="list-style-type: none"> <li>Neatness</li> <li>Visibility</li> <li>Creativity</li> </ul> a) All the 3 aspects present. (3) b) Only 2 aspects present. (2) c) Only 1 aspect present. (1)	3		
Explaining how the fireless cooker is used	Aspects: <ul style="list-style-type: none"> <li>Correct content</li> <li>Clarity of explanation</li> </ul> a) Both aspects present. (2)	2		

	b) Only 1 aspect present. (1)			
Explaining the meaning of the three modes of heat transfer.	Accurately explains modes of heat transfer: -Conduction (2) -Convection (2) -Radiation (2)	6		
Demonstrating how the fireless cooker conserves heat.	a) Accurately demonstrates how heat transfer through the following are minimized: -Conduction (2) -Radiation (2)	2 2		
<b>TOTAL SCORE</b>		<b>25</b>		

### ASSESSMENT SUMMARY

SCORE RANGE	PERFORMANCE LEVEL	DESCRIPTION
21-25	4	Exceeding Expectation
14-20	3	Meeting Expectation
7-13	2	Approaching Expectation
0-6	1	Below Expectation

Name of the teacher.....TSC No.....

Signature ..... Date of assessment .....

### SCIENCE AND TECHNOLOGY PROJECT SCORE SHEET

S/N	Name of Learner	Learner's score
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		

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