THE KENYA NATIONAL EXAMINATIONS COUNCIL

GRADE 7

School Based Assessment

PRE-TECHNICAL STUDIES

SCORING GUIDE

This paper consists of 7 printed pages.

1. **Careers that a learner may pursue after pre-technical studies:**
   i. Accounting/Entrepreneurship/Banking
   ii. Computer engineering/Computer technician/Cyber security
   iii. Mechanical Engineering/Civil Engineering/Electrical engineering
   iv. Aviation/Marine engineering

   (Any 2x1=2 marks)

2. **Types of lines used in the drawing:**
   J-Dimension line
   K- Extension line
   L- Centerline   **(3 x 1 = 3 marks)**

3. **Types of metal used for making the items.**

Item	Type of metal
Bucket	Tin
Window frame	Mild steel
Watering can	Aluminium/Tin
Metal box	Sheet metal

   (4 X 1 = 4 marks)

4. **Caring for measuring tools involves:**
   a) Tape measure- retract the blade slowly
              - Don't allow it to bend or kink
              - Store properly in a dry location
              - Keep the housing clean
   b) Steel rule- wipe with a dry cloth to remove dust, dirt r oil
              -store properly in a flat position
              - keep away from moisture,

   (**Any 1 x 2 = 2 marks)**

5. **Use of marking out tools.**

Tools	Use
Try square	For marking out right angles and bevel angles
Divider	For transferring measurements
Marking gauge	For marking joints in woodwork
Scriber	For marking straight or curved lines

   (4 x 1 mark = 4 marks)

6. **Symbols used in drawing:**
   Diameter (⌀)

   Right Angle (⊥)

   Centerline (℄)

   Square (□)   **(4 x 1 mark = 4 marks)**

7. **Matching materials with their uses**

Items	Uses
Aluminum	Making cooking stick
Copper	Making sufuria
Wood	Making soles of shoes
Steel	Making electric conductor
Rubber	Making bolts
	Making plastic bottles

8. **Properties of metals that will guide the learners to choose the type of metal for use:**

   i.   Hardness
   ii. Malleability
   iii. Ductility
   iv. Brittleness
   v.   Elasticity
   vi. Conductivity
   vii. Strength

                                                                (Any 3 x 1 = 3 marks)

9. **Factors Jovu should consider when locating his business include:-**
   i.   To consider the government policy
   ii. To consider the population of the area
   iii. Availability of infrastructure
   iv. Competition in the village
   v.   Availability of auxiliary services

                                                                (Any 3 x 1 = 3 marks)

10. **a. Formulating** financial goals.

Goal	Time frame	Amount required	Action plan
Buying class readers	3 months	Kshs.1,000	Save at least Kshs. 400 per month

                                                                (4 x 1/2 = 2 marks)

(b)   **Benefits that Mwanaheri would get from setting financial goals.**
   (i)   Enable her plan for her finances.
   (ii)   Help her spend her money wisely.
   (iii)   Motivates her to work towards financial income/raise more money.
   (iv)   Helps her to gain financial discipline.

(Any 2 x 1 = 2 marks)

11.   **Benefits of entrepreneurship to the members of the community include:-**
   i.   It contributes to job creation to the members of the community who will earn income.
   ii.   Contributes to the improvement of the living standards to the members of the community.
   iii.   Via job creation.
   iv.   It contributes to economic development and growth in the community.
   v.   It helps members of the community come up with innovative and creative ideas.
   vi.   It contributes to the utilization of locally available resources in the community.

(Any 3 x 1 = 3 marks)

12.   **ICT tools used in communication.**
   i.   Emails – used to pass information to customers, employees and business owners.
   ii.   Social media such as WhatsApp, twitter- used to give immediate response to customers' needs.
   iii.   Radio – can be used to give announcement to the potential customers.
   iv.   Television – sending information to customers through viewing.
   v.   Computer – used in business for both internal and external communication through emails, video conferencing between the owner and customers.
   vi.   Mobile phone – send information through voice calls, SMS, and applications such as whatsapp, facebook.

(Any 3 x 1 = 3 marks)

13.   **Classifying the computers into their respective categories.**

Classification according to purpose	Classification according to size	Classification according to functionality.
- General purpose computers - Dedicated computers	- Supercomputers - Microcomputers	- Analog computers - Digital computers

(6 x ½ mark = 3 marks)

14. **a) Online threats when using the internet include:**
   (i)   Cyberbullying
   (ii) Hacking
   (iii) Phishing

   (Any3 x 1 = 3 marks)

   b) Safety rules to be observed while using the digital devices.
   (i)   Avoid downloading information from unknown sources.
   (ii) Always shut down the digital devices using the correct procedure.
   (iii) Avoid using external storage devices before scanning them for viruses.

   (Any 1 x 2 = 2 mark)

15.   **Appropriate computer hardware devices**

Task	Device
Printing class timetables	Printer
Capturing prices of items in a supermarket	Scanner
Displaying information to a large audience	Projector

   (Each 1 mark = 4 marks)

SCORING RUBRICS
PRE-TECHNICAL STUDIES
GRADE 7
SBA

Abilities / Strand	Exceeding Expectation (4)	Meeting Expectation (3)	Approaching Expectation (2)	Below Expectation (1)	Question Number	Score
Pre-Technical Studies	Any learner scoring 25 to 27 out of 27	Any learner scoring 15 to 24 out of 27	Any learner scoring 10 to 14 out of 27	Any learner scoring 0 to 9 out of 27	1, 2,3,4,5,6,7,8	**27**
Business Studies	Any learner scoring 8 to 9 out of 9	Any learner scoring 5 to 7 out of 9	Any learner scoring 3 to 4 out of 9	Any learner scoring 0 to 2 out of 9	9,10,11	**09**
Computer Studies	Any learner scoring 12 to 14 out of 14	Any learner scoring 8 to 11 out of 14	Any learner scoring 5 to 7 out of 14	Any learner scoring 0 to 4 out of 14	12,13,14,15	**14**

THE KENYA NATIONAL EXAMINATIONS COUNCIL
JUNIOR SCHOOL – GRADE 7
PRE-TECHNICAL STUDIES
ASSESSMENT SHEET

	Learner's Name	Pre-Technical Studies (Question 1,2,3,4,5,6,7,8)		Business Studies (Question 9,10,11)		Computer Studies (Question 12,13,14,15)		Total Score Out Of 50
		Score	Performance Level	Score	Performance Level	Score	Performance Level	
1.								
2.								
3.								
4.								
5.								
6.								
7.								
8.								
9.								
10.								
11.								
12.								
13.								