PaperSetter Sample School

Grade 7 Pre-Technical Studies

GRADE 7 — 2026

KENYA JUNIOR SCHOOL EDUCATION ASSESSMENT

Candidate's Name		**Assessment Number**	
School Name		**School Code**	
Candidate's Signature		**Date**	

PRE-TECHNICAL STUDIES

Grade 7

Time: 1 hour 40 minutes

INSTRUCTIONS TO CANDIDATES

1. Write your name and assessment number in the spaces provided above.
2. Write the name and code of your school in the spaces provided above.
3. Sign and write the date of the assessment in the spaces provided above.
4. This paper may consist of multiple sections.
5. Answer questions as instructed on the paper.
6. Do all the necessary rough work on the question paper.
7. Do not remove any page from this question paper.
8. Answer all the questions in English.

STRANDS AND SUBSTRANDS TESTED

Strand	Substrands Tested
Foundations of Pre-Technical Studies	Safety in the Immediate Environment, Safety on Raised Platforms, Self-Exploration and Career Development, Introduction to Pre-Technical Studies
Communication	Introduction to Drawing, Dimensioning, Visual Programming, Oblique Projection
Materials for Production	Metallic Materials, Composite Materials, Wood, Hazardous Materials
Tools and Production	Measuring and Marking Out Tools, Computer Hardware, Holding Tools, Cutting Tools, Distribution of Goods and Services
Entrepreneurship	Introduction to Entrepreneurship, Income and Budgeting, Marketing Goods and Services, Government and Business, Business Plan, Financial Goals, Bookkeeping

Section A: 30 marks | **Section B: 50 marks** | **TOTAL: 80 marks**

Candidate's Score: **Sec A:** ☐ **Sec B:** ☐ **Total:** ☐ **/ 80**

Fill candidate's score per section; Teacher to sum and write total

TEACHER ASSESSMENT OF LEARNER PERFORMANCE

Tick (✓) the appropriate box based on learner's overall performance:

Below Expectation (BE)	Approaching Expectation (AE)	Meeting Expectation (ME)	Exceeding Expectation (EE)
☐	☐	☐	☐

SECTION A

1. A learner notices a worn electric cable with exposed wires near the workshop sink. What is the most appropriate first action to keep everyone safe?

A. Touch the wires to test if there is current

B. Pour water on the cable to cool it

C. Switch off the power and report it to the teacher

D. Cover the cable with a cloth and continue working

2. Which of the following is the correct sequence when preparing a drawing sheet for work?

A. Colour the sheet before drawing

B. Draw the object first, then fix the paper

C. Fix paper on board, draw border, draw title block, then draw the object

D. Draw the title block before fixing the paper

3. Electrical cables use copper for the conducting wire mainly because copper is:

A. Very cheap and brittle

B. A good conductor of electricity

C. A poor conductor of electricity

D. Non-metallic

4. Which of the following is the correct way to care for measuring and marking out tools after use?

A. Expose them to rain to cool them

B. Store them mixed together with sharp tools loosely

C. Clean, oil and store them safely in a dry place

D. Leave them wet on the floor

5. Computer hardware is best described as:

A. The physical parts of a computer that can be touched

B. The information stored in a computer

C. The programs and instructions in a computer

D. The internet connection of a computer

6. Which one of the following is a key characteristic of a successful entrepreneur?

A. Poor time management

B. Giving up at the first difficulty

C. Fear of trying anything new

D. Creativity and willingness to take calculated risks

7. Which symbol is placed before a dimension figure to indicate that the feature is a diameter of a circle?

A. □

B. ∠

C. Ø

D. R

8. A sprite needs to detect when it touches another sprite. Which block category provides this?

A. Looks blocks

B. Sensing blocks

C. Operators blocks

D. Sound blocks

9. Which of the following is a common natural composite material?

A. Steel

B. Copper

C. Aluminium

D. Wood

10. A small business owner finds that at the end of the month the total money earned is more than the total money spent. This favourable difference between income and expenditure is best described as a:

A. Loss

B. Surplus

C. Debt

D. Deficit

11. A trader uses social media, posters and radio to make customers aware of a new product. This marketing activity is known as:

A. Production

B. Packaging into bags

C. Promotion (advertising)

D. Pricing

12. Which condition would make working on a raised platform outdoors MOST unsafe?

A. A cool, dry morning

B. Bright, calm sunshine

C. Light cloud cover

D. Strong winds and heavy rain

13. A learner writes: 'I value honesty, I want to help sick people and I enjoy biology.' These statements mainly reveal the learner's:

A. Family background

B. Physical fitness level

C. Financial status

D. Personal values and interests

14. A learner wants a program to display the message "Well done" only when a learner's score is 50 or more, and nothing otherwise. Which programming construct achieves this?

A. An unconditional loop only

B. A conditional (if) statement

C. A variable declaration only

D. A comment block

15. A carpenter explains to learners that one timber takes longer to grow, is generally harder and more durable, and comes from broad-leaved trees such as mahogany. Which type of wood is being described?

A. Softwood

B. Plywood

C. Chipboard

D. Hardwood

16. Which symbol on a container warns the user that the material inside can easily catch fire?

A. A skull and crossbones

B. A flame symbol

C. A pair of crossed hammers

D. An exclamation mark in a triangle

17. A learner needs to hold two pieces of glued wood tightly together until the glue dries. The best holding tool for this is a:

A. Marking gauge

B. Chisel

C. G-clamp

D. File

18. A small business owner notices that the government has built a tarmac road and provided electricity to the trading centre. Which role of government in business does this illustrate?

A. Setting selling prices for every shop

B. Providing infrastructure that supports business activities

C. Owning all the shops in the centre

D. Banning trade in the area

19. A learner's business plan shows expected sales of Ksh 50,000 and total costs of Ksh 35,000 for the month. The expected profit is:

A. Ksh 50,000

B. Ksh 15,000

C. Ksh 85,000

D. Ksh 35,000

20. Before starting practical work, a learner ties back long hair, removes a loose scarf and rolls up sleeves. Why are these steps important in the workshop?

A. To look smart for inspection

B. To prevent loose items from being caught in machines or tools

C. To keep warm during the lesson

D. To save time when leaving

21. The part of the computer often referred to as the 'brain' of the computer, which processes data, is the:

A. Central Processing Unit (CPU)

B. Keyboard

C. Speaker

D. Monitor

22. Which of the following actions best shows good financial management by a young person?

A. Refusing to record any spending

B. Spending all pocket money on sweets immediately

C. Saving part of the income and budgeting the rest

D. Borrowing money to buy wants

23. A learner running a school snack business lowers prices during lunch break to attract more buyers. Which element of the marketing mix is being adjusted?

A. Place

B. Promotion

C. Price

D. Product

24. Wanjiku identifies that she is weak in public speaking but wants to become a teacher. The BEST way for her to turn this weakness into a strength is to:

A. Hide it from her teachers

B. Ignore the weakness completely

C. Practise and seek training in presentation skills

D. Abandon the teaching career immediately

25. Which of the following is a hardwood commonly used in Kenya for making durable furniture?

A. Cypress

B. Pine

C. Balsa

D. Mahogany

26. Which of the following pairs of tools are BOTH holding tools?

A. Bench vice and G-clamp

B. Hammer and saw

C. Drill and file

D. Ruler and pencil

27. Which of the following is an example of the government creating a favourable environment for businesses to grow?

A. Maintaining peace and security in trading centres

B. Increasing taxes every month

C. Closing all markets

D. Confiscating traders' stock

28. Which of the following is the MOST appropriate personal protective equipment for a learner grinding a metal edge?

A. Woollen gloves

B. Safety goggles

C. Rubber boots

D. A cotton apron

29. An entrepreneur, a plumber and a mechanic all earn income mainly by:

A. Winning competitions each week

B. Providing goods or services in exchange for payment

C. Receiving a fixed government pension

D. Inheriting money only

30. Why should tools be returned to their correct storage racks after use in the workshop?

A. To prevent accidents and make tools easy to locate

B. To reduce the number of tools needed

C. To make the workshop look colourful

D. To keep learners busy after the lesson

SECTION B

31. State three ways in which the skills gained in Pre-Technical Studies can help a learner become self-reliant in the community.

(3 marks)

32. After making some profit from her juice business, Mary wants to plan how to use her money wisely instead of spending it all at once.

(a) Explain what is meant by a financial goal. (2 marks)

(b) Differentiate between a short-term financial goal and a long-term financial goal, giving one example of each. (4 marks)

(6 marks)

33. A learner is dimensioning a drawing of a machine part. (a) Define the term dimensioning as used in technical drawing. (2 marks) (b) State three rules that should be followed when dimensioning a drawing. (3 marks)

(5 marks)

34. Explain three safety precautions a learner should observe when using cutting tools in the workshop.

(6 marks)

35. A trader records the following for a day: sales Ksh 6,000, purchases Ksh 2,500, wages Ksh 800, and rent Ksh 700. Prepare a simple statement showing total income, total expenditure, and the profit made.

(5 marks)

36. Distinguish between cavalier oblique projection and cabinet oblique projection.

(2 marks)

37. A learner notices a container of paint thinner in the workshop labelled with a flame symbol.

(a) State what the flame symbol on the container warns the learner about. (2 marks)

(b) State TWO safety practices the learner should follow when handling and storing this material. (4 marks)

(6 marks)

38. A farmer harvests tomatoes and sells them to a wholesaler, who then supplies retailers, and the retailers finally sell the tomatoes to consumers.

(a) Define the term 'channel of distribution'. (2 marks)

(b) List, in the correct order, the four parties through which the tomatoes pass from the farmer to the final buyer in this case. (4 marks)

(6 marks)

39. Naliaka intends to start a small vegetable-selling business near her home. (a) Define a business plan. (2 marks) (b) State three components of a business plan. (3 marks)

(5 marks)

40. State three reasons why oblique projection is preferred for drawing objects that have curves or circles on one face.

(3 marks)

41. A learner is drawing a rectangular block measuring 40 mm wide, 30 mm high and 20 mm deep in cabinet oblique projection.

(a) State the length to which the depth (receding) line should be drawn.

(b) Give a reason for this length.

(3 marks)