

TARGETER WINGS

JUNIOR SCHOOL ASSESSMENT

GRADE 8 - 2026



PRE-TECHNICAL STUDIES

TIME: 1 hour 40 mins

Learner's Name: _____
 School: _____
 Adm No: _____

Assessment Number _____
 School Code _____
 Date _____

PRE-TECHNICAL STUDIES THEORY
INSTRUCTIONS TO LEARNERS

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 consists of two sections: A and B.
5. Section A comprises Multiple Choice Questions.
6. Section B comprises Short Structured questions.
7. Answer ALL the questions in section A on the separate ANSWER SHEET provided.
8. Answer ALL the questions in section B in the spaces provided in this question paper.
9. Do not remove any page from this question paper.
10. Answer all questions in English.

SECTION A (20 marks)

Read the instructions carefully.

1. You have been given this question paper and a separate answer sheet.
 2. Answer ALL questions in this section on the ANSWER SHEET provided, NOT in the question paper.
- HOW TO USE THE ANSWER SHEET**
3. On the answer sheets you have been provided write the following:
 - YOUR ASSESSMENT NUMBER - YOUR NAME
 - NAME OF YOUR SCHOOL - NAME OF THE SUBJECT
 4. Keep the answer sheet clean, dry and DO NOT fold it.
 5. For each of the questions 1 – 20, four options are given. The options are lettered A, B, C and D. In each case, only ONE of the four options is correct. Choose the correct answer from the options.
 6. On the answer sheet, the correct answer (letter) is to be written.

Example

In the Question Booklet:

13. The following are protective clothing used in a work environment. Which one is not?
 A. Helmet
 B. Apron
 C. Gumboots
 D. Gloves

The correct answer is 'B'.

On the answer sheet, write the letter B.

13. [A] [B] [C] [D]

14. For each question, ONLY ONE letter is to be written.

FOR OFFICIAL USE ONLY
SECTION B (30 marks)

Task														
Question	21	22	23	24	25	26	27	28	29	30				
Maximum Score per Task	3	3	4	4	4	1	2	3	3	3				
Learner's Score per Task														

*This paper consists of 7 printed pages.
 Learners should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.*

SECTION A (20 marks)

Answer ALL the questions in this section by choosing the correct choice.

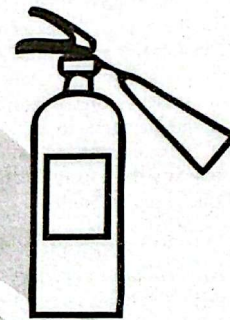
1. Maria, a Grade 8 girl, is in the school laboratory when her clothes accidentally catch fire. What is the safest action she should take immediately?
A. Run quickly to get help
B. Pour water over herself
C. Stop, drop and roll
D. Wave her arms to attract attention

2. A school laboratory technician noticed sparks near an electrical socket. Learners were asked to identify possible causes of fire in such circumstances. What were their findings?
A. Overloading the sockets
B. Keeping windows open
C. Storing chemicals in labelled containers
D. Locking the lab after use

3. Which one of the following is **not** a component of pre-technical studies as a learning area?
A. Business studies
B. Computer studies
C. Pre-technical studies
D. Creative art studies

4. In a workplace, employees may face physical threats that can cause accidents. Identify one common physical threat.
A. Slippery floors
B. Bright lighting in corridors
C. Insulated electrical cables
D. Wearing protective gears

5. The equipment shown below is supposed to be in all workplaces.



What safety measure does it serve?

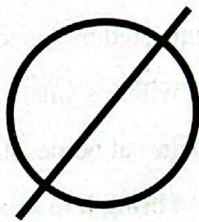
- A. Helps people who have inhaled poisonous gases
 - B. Prevents entry of robbers in a workplace
 - C. Used to put off fire that has erupted
 - D. Produces fresh air in a polluted environment
6. Which one of the following is **not** a freehand technique in sketching?
A. Hatching
B. Blending
C. Curing
D. Stippling

7. Ochieng was using the instrument shown below during a plane geometry lesson in pre-technical studies.



Which of the following shows the correct use of the instrument? It;

- A. measures and constructs angles
 - B. draws circles with given radius
 - C. transfers a measured length from one part to another.
 - D. draws vertical and perpendicular lines
8. The symbol shown below is used in technical drawing. What does it stand for?



- A. Circumference
- B. Diameter
- C. Circle
- D. Cylinder

9. A person who starts and runs a business, taking risks to turn ideas into products or services for profit is called;

- A. A shopkeeper
- B. An engineer
- C. A carpenter
- D. An entrepreneur

10. Which one of the following is **not** a quality of an entrepreneur?

- A. Non risk taker
- B. Problem solver
- C. Creative
- D. Confident

11. The process of converting raw materials into finished goods is referred to as;

- A. consumption
- B. distribution
- C. production
- D. marketing

12. In a factory, workers operate machines under the supervision of the owner to produce goods. Which one of the following is a factor of production displayed in this scenario?

- A. Labour
- B. Finished goods
- C. Government policy
- D. Market demand

13. Which of the following best defines a financial goal?

- A. Buying an item, one wants in the near future
- B. Spending all the money one has immediately
- C. A specific target or objective for managing resources
- D. Using money without buying luxurious things

14. A school project account shows the following transactions:

- Cash from sales sh20 000
- Loan received sh10 000
- Stock bought sh14 000

What is the net cash flow?

- A. sh.6 000
- B. sh.16 000
- C. sh.24 000
- D. sh.30 000

15. In a class, learners were being taught about the basic elements recorded in

bookkeeping. Which one of the following is **not** part of basic bookkeeping recordings?

- A. Assets
- B. Liabilities
- C. Capital
- D. Income

16. Which of the following is the **correct** meaning of the term data as used in computer concepts;

- A. Processed information that is useful to the user
- B. Raw facts that have no meaning to the user until processed
- C. The act of processing facts into information
- D. Electronic device that converts data into information

17. Computer hardware are the physical components of a computer. Which of the following is not a category of computer hardware?

- A. Input
- B. Storage
- C. Speed
- D. Output

18. Musau was requested by his teacher to record himself with his smartphone while watering cabbages at home, store the video in a device, and bring it to school the following day. Which of the following storage devices did Musau most likely use?

- A. Internal Hard Disk
- B. Micro SD card
- C. Compact disc (CD)
- D. Floppy disk

19. In a business lesson, learners were discussing SMART objectives used in planning. The teacher emphasized that each objective should be measurable. Which one of the following best illustrates the “Measurable” aspect of a SMART objective?
- A. Increase customer satisfaction through better service
 - B. Improve sales performance across all regions
 - C. Achieve sales growth in six months
 - D. Expand business operations to new markets

20. Which one of the following is **not** a factor that determines the size of a production unit?
- A. Availability of raw materials
 - B. Level of technology
 - C. Size of market
 - D. Type of ownership

SECTION B

21. Grade 8 learners were discussing roles of Pre-technical studies as a learning area in Junior school. State **three** roles they raised **(3marks)**

22. State **three** common physical threats in a work environment **(3marks)**

(4marks)

23. Match the following lines as used in technical drawing with their correct use.

	Type of line	Use
a.	Centre line	A dashed line that shows parts of an object that cannot be seen
b.	Hidden line	A zig-zag line used to show that part of an object has been cut off or shortened
c.	Leader line	A thin chain line that shows the middle or symmetry of an object.
d.	Break line	A thin line that points to a part of a drawing

24. State two differences between artistic drawing and technical drawing

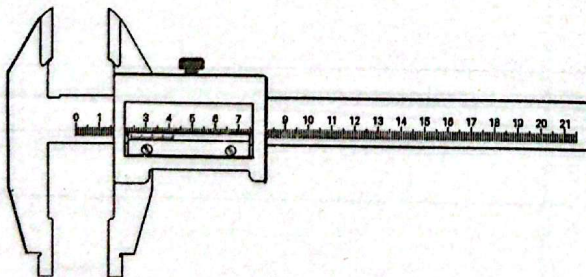
(4marks)

25. Mary and her friend were discussing metallic and non-metallic materials. State two differences between metallic and non-metallic materials.

(4marks)

26. Name the measuring tool shown below

(1mark)



27. Janet has completed her college and would like to start a salon in her nearby town. List some **two** sources of generating ideas for her salon. (2marks)

28. List **three** factors that determine the size of a production unit (3marks)

29. Jonathan bought a laptop to be doing research for his CBC assignments. State **three** ways he should protect himself from online threats. (3marks)

30. State **three** components of computer hardware. (3marks)
