

SMARTWIZ

GRADE 7 TECHNOLOGY EXAM

MARKS: 85

MARKS	

TIME: 1 hour 30 minutes

SCHOOL _____

CLASS (e.g. 4A) _____

SURNAME _____

NAME _____

Instructions for Students:

- > Read all instructions carefully before beginning the exam.
- > Write your name and student ID clearly on the answer sheet/booklet.
- > Answer all questions unless otherwise stated.
- > Show all your work/calculations where applicable.
- > Write clearly and legibly.
- > Use blue or black ink only. * Do not use correction fluid/tape.
- > No electronic devices (calculators, phones, etc.) are allowed unless explicitly permitted.
- > Raise your hand if you have any questions.
- > Do not talk to other students during the exam.
- > Any form of cheating will result in disqualification.

This test consists of 3 pages, excluding the cover page.

SECTION A: TECHNOLOGY AROUND US 🌍 (10 MARKS)

1. Look at the image below and answer the questions.



1.1 What is this machine called?

_____ (1)

1.2 What kind of energy does it use?

_____ (1)

1.3 Give one reason why it is good for the environment.

_____ (1)

1.4 Name another machine that uses **renewable energy**.

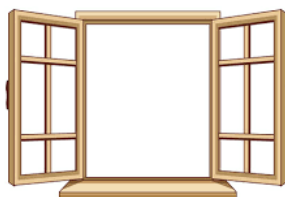
_____ (1)

1.5 Why is it important to use less electricity at home?

_____ (2)

2. Match the picture to the material it is made from. Write only the letter. (4)

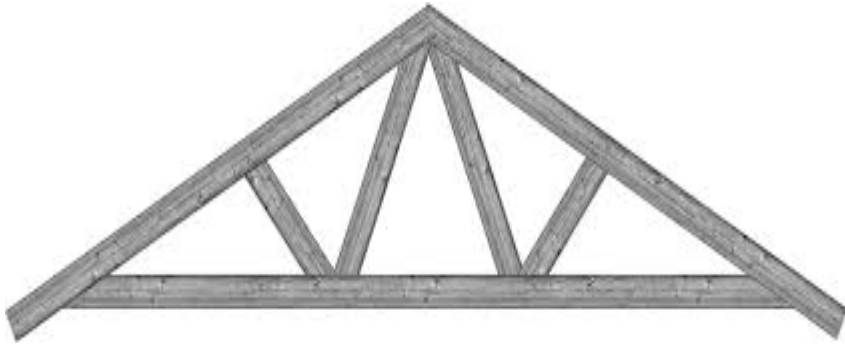
| A. Wood | B. Plastic | C. Metal | D. Glass |



1. _____ 2. _____ 3. _____ 4. _____

SECTION B: MATERIALS AND STRUCTURES (15 MARKS)

3. Study the structure below and answer the questions.



3.1 What shape is this structure?

_____ (1)

3.2 Is this a strong or weak shape for building?

_____ (1)

3.3 Why do builders use this shape in roofs?

_____ (2)

3.4 Circle the materials that are best for building houses: (3)

- Paper
- Bricks
- Steel
- Wood
- Fabric
- Glass

3.5 Fill in the blanks using these words: *strong, waterproof, soft* (3)

- a) Metal is very _____.
- b) Plastic bottles are _____.
- c) A pillow is _____.

3.6 Name one structure you see every day.

_____ (1)

3.7 What is one material used to build it?

_____ (1)

SECTION C: TOOLS AND SAFETY 🛠️ (10 MARKS)

4. Look at the tool and answer the questions.



4.1 What is this tool called?

_____ (1)

4.2 What is it used for?

_____ (1)

4.3 Write **T** for true or **F** for false: (3)

- a) You should run with tools. _____
b) You should wear gloves or goggles. _____
c) You should keep tools clean. _____

4.4 Name TWO other tools you have used in Technology. (2)

1. _____
2. _____

4.5 Why is safety important when using tools? (2)

SECTION D: DESIGN AND DRAWING 🖍️ (15 MARKS)

5. Use the block grid to draw a simple design for a pencil holder made from recycled cans. (5)



5.1 Label your drawing with at least TWO materials.

Material 1: _____

Material 2: _____ (2)

5.2 What is one way to decorate your pencil holder?

_____ (1)

5.3 Why is recycling materials a good idea? (2)

5.4 What is one tool you would use to build your pencil holder?

_____ (1)

5.5 What is the purpose (use) of your pencil holder?

_____ (1)

TOTAL: 50 MARKS

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SECTION A: TECHNOLOGY AROUND US (10 MARKS)

- 1.1 Wind turbine ✓ (1)
1.2 Wind energy ✓ (1)
1.3 It does not cause pollution / It is clean energy ✓ (1)
1.4 Solar panel / Solar cooker / Hydroelectric dam ✓ (1)
1.5 To save energy and protect the environment ✓ (2)

2. Matching (1 mark each):

1. A – Chair → Wood ✓
 2. B – Bottle → Plastic ✓
 3. D – Window → Glass ✓
 4. C – Hammer → Metal ✓
- (4 marks)

SECTION B: MATERIALS AND STRUCTURES (15 MARKS)

- 3.1 Triangle ✓ (1)
3.2 Strong ✓ (1)
3.3 Triangles give strength and support to roofs ✓ (2)

3.4 Correct answers:

- Bricks ✓
 - Steel ✓
 - Wood ✓
- (3 marks – 1 each)

3.5

- a) Strong ✓
b) Waterproof ✓
c) Soft ✓
(3 marks)

- 3.6 Any valid answer like: house / school / bridge ✓ (1)
3.7 Any valid material like: brick / cement / steel ✓ (1)

SECTION C: TOOLS AND SAFETY (10 MARKS)

4.1 Hand saw ✓ (1)

4.2 Cutting wood ✓ (1)

4.3

a) F ✓

b) T ✓

c) T ✓

(3 marks)

4.4

Any two of: hammer, pliers, screwdriver, tape measure, drill ✓✓ (2)

4.5

To prevent injuries and stay safe while working ✓ (2)

SECTION D: DESIGN AND DRAWING (15 MARKS)

5. Drawing: (5 marks)

- Neat drawing of a pencil holder
- Labelled with materials
- Shape is clear and creative

5.1 Example:

Material 1: Tin can ✓

Material 2: Paper, stickers, string, etc. ✓

(2 marks)

5.2 Painting, wrapping with paper, stickers, etc. ✓ (1)

5.3

Saves resources, reduces waste, protects environment ✓✓ (2)

5.4 Scissors / glue gun / ruler / paintbrush ✓ (1)

5.5 To hold pencils and stationery ✓ (1)

TOTAL: 50 MARKS