

# SMARTWIZ

## GRADE 4 TECHNOLOGY EXAM

**MARKS: 50**

MARKS	

**TIME: 1 hour**

**SCHOOL** \_\_\_\_\_

**CLASS (e.g. 4A)** \_\_\_\_\_

**SURNAME** \_\_\_\_\_

**NAME** \_\_\_\_\_

MYST PATHWORKS

### 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.

### QUESTION 1: Sources of Energy (5 marks)

Match the energy source to the correct use. Write only the letter (A–E) next to the number.

1. Sun
2. Electricity
3. Wind
4. Water
5. Petrol

- A. Powering lights and TV
- B. Used in cars
- C. Turns windmills
- D. Makes dams move turbines
- E. Provides heat and light naturally

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### QUESTION 2: Materials and their Properties (5 marks)

Write **strong**, **soft**, or **flexible** to describe the material.

1. Metal – \_\_\_\_\_
  2. Rubber – \_\_\_\_\_
  3. Sponge – \_\_\_\_\_
  4. Wood – \_\_\_\_\_
  5. Wool – \_\_\_\_\_
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### QUESTION 3: Tools and Safety (5 marks)

Fill in the blanks using the words in the box:

**(sharp, toolbox, gloves, protect, danger)**

1. Keep your tools in a \_\_\_\_\_.
2. Wear \_\_\_\_\_ to keep your hands safe.
3. Knives and scissors are \_\_\_\_\_ tools.
4. Safety glasses help \_\_\_\_\_ your eyes.
5. Electricity can be a \_\_\_\_\_ if not used safely.

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### QUESTION 4: Communication (5 marks)

Choose the correct answer from the box.

**(Email, Radio, Telephone, Letter, Drum)**

1. We use this to write and send messages on paper: \_\_\_\_\_
2. A modern way to speak to someone far away: \_\_\_\_\_
3. An old way to send messages with sound: \_\_\_\_\_
4. We listen to music and news on the: \_\_\_\_\_
5. A fast way to send written information online: \_\_\_\_\_

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### QUESTION 5: Structures and Stability (5 marks)

Look at the diagram below and answer the questions



1. What structure is this? \_\_\_\_\_
2. What holds the bridge up? \_\_\_\_\_
3. What shape gives the bridge strength? \_\_\_\_\_
4. Is the bridge fixed or moving? \_\_\_\_\_
5. Name one place where we find bridges. \_\_\_\_\_

**QUESTION 6: Technology in Homes (5 marks)**

Circle the items that use technology in the home:

- ☐ Broom
- ☐ Microwave
- ☐ Toaster
- ☐ Pillow
- ☐ Washing Machine

**(Circle only the correct items)**

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### QUESTION 7: The Design Process (5 marks)

Write **YES** or **NO** for each sentence:

1. The first step is to build the product. \_\_\_\_\_
2. Planning and drawing come before building. \_\_\_\_\_
3. You must test the product when finished. \_\_\_\_\_
4. Thinking of the problem is part of the process. \_\_\_\_\_
5. The design process is only for adults. \_\_\_\_\_

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### QUESTION 8: Moving and Fixed Joints (5 marks)

State whether the following joints are **moving** or **fixed**:

1. The elbow joint in your arm – \_\_\_\_\_
  2. The leg of a chair – \_\_\_\_\_
  3. The door hinge – \_\_\_\_\_
  4. A swing on a jungle gym – \_\_\_\_\_
  5. The roof on a house – \_\_\_\_\_
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**QUESTION 9: Natural vs Man-made Products (5 marks)**

Write **natural** or **man-made**:

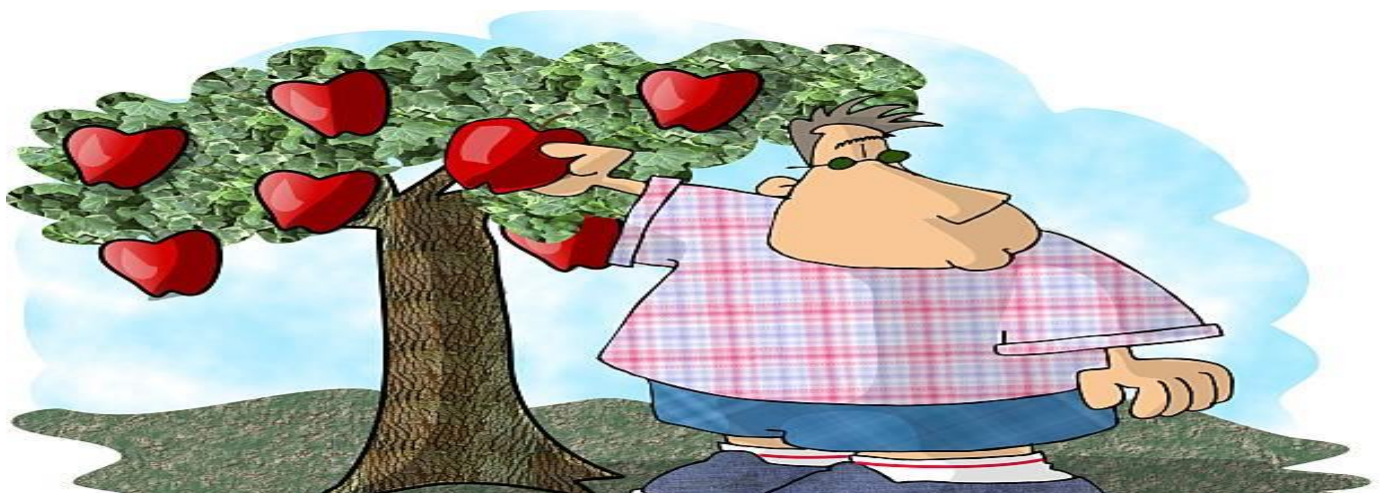
1. Cotton – \_\_\_\_\_
  2. Plastic bottle – \_\_\_\_\_
  3. Cow – \_\_\_\_\_
  4. Wooden table – \_\_\_\_\_
  5. River – \_\_\_\_\_
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**QUESTION 10: Design a Simple Tool (5 marks)**

Imagine you are designing a fruit picker.

Answer the following:

1. What will you use to reach the fruit? \_\_\_\_\_
2. What shape will the grabber be? \_\_\_\_\_
3. What material would be strong enough? \_\_\_\_\_
4. Will it be safe for children to use? \_\_\_\_\_
5. What will happen after picking the fruit? \_\_\_\_\_



## **GRADE 4 TECHNOLOGY MEMORANDUM – PAPER 2**

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### **QUESTION 1: Sources of Energy (5 marks)**

1. E – Provides heat and light naturally
2. A – Powering lights and TV
3. C – Turns windmills
4. D – Makes dams move turbines
5. B – Used in cars

**[1 mark each = 5 marks]**

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### **QUESTION 2: Materials and their Properties (5 marks)**

1. Strong
2. Flexible
3. Soft

4. Strong

5. Soft

**[1 mark each = 5 marks]**

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**QUESTION 3: Tools and Safety (5 marks)**

1. Toolbox

2. Gloves

3. Sharp

4. Protect

5. Danger

**[1 mark each = 5 marks]**

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**QUESTION 4: Communication (5 marks)**

1. Letter

2. Telephone

3. Drum

4. Radio

5. Email



**[1 mark each = 5 marks]**

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**QUESTION 5: Structures and Stability (5 marks)**

1. Bridge
2. Pillars or support beams
3. Triangle (or beam shape)
4. Fixed
5. Over rivers / highways / roads

**[1 mark each = 5 marks]**

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**QUESTION 6: Technology in Homes (5 marks)**

Correct items to **circle**:

- Microwave
- Toaster
- Washing Machine

**[1 mark for each correct item circled; 0 for incorrect circles. Max = 5 marks]**

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**QUESTION 7: The Design Process (5 marks)**

1. NO

2. YES
3. YES
4. YES
5. NO

**[1 mark each = 5 marks]**

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**QUESTION 8: Moving and Fixed Joints (5 marks)**

1. Moving
2. Fixed
3. Moving
4. Moving
5. Fixed

**[1 mark each = 5 marks]**

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**QUESTION 9: Natural vs Man-made Products (5 marks)**

1. Natural
2. Man-made
3. Natural
4. Man-made

5. Natural

**[1 mark each = 5 marks]**

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**QUESTION 10: Design a Simple Tool (5 marks)**

Example answers (accept logical answers):

1. A long stick or pole
2. Claw or hand shape
3. Metal or hard plastic
4. Yes (if safe and light)
5. Fruit falls into a basket or bag

**[1 mark each = 5 marks]**

**Total 50 MARKS**