

# SMARTWIZ

## GRADE 5 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: Systems and Control (10 marks)

1.1 What is a **system** in technology? (3)

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1.2 Name two examples of systems you use at home or school. (4)

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1.3 Explain what an **input** and an **output** is in a system. Give one example of each. (3)

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## QUESTION 2: Structures and Materials (10 marks)

2.1 What is a **structure**? (3)

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2.2 Name three different types of structures. (3)

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2.3 Why do we need strong materials for building structures? (4)

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## QUESTION 3: Processing (10 marks)

3.1 What does **processing** mean in technology? (3)

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3.2 Give two examples of processing in everyday life. (4)

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3.3 What tools do you need to process wood? (3)

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#### QUESTION 4: Systems and Control – Picture Question (10 marks)



4.1 Name the system shown in the picture. (2)

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4.2 Identify the **input**, **process**, and **output** in this system. (6)

Part	Description
Input	_____
Process	_____
Output	_____

4.3 Why is this system useful? (2)

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#### QUESTION 5: Tools and Safety (10 marks)

5.1 Name three safety rules you should follow when using tools. (6)

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5.2 Why is it important to wear safety gear when working with tools? (4)

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Total 50 Marks

## MEMORANDUM: Grade 5 Technology Exam Paper

**Total: 50 Marks**

QUESTION 1: Systems and Control (10 marks)

1.1

A system is a group of parts working together to do a job. (3 marks)

1.2



Examples of systems:

School bell system

Home security system

Washing machine system

Traffic light system (Any 2 examples = 4 marks)

1.3

Input is what you put into the system (e.g., electricity, water, commands).

Output is what the system produces or does (e.g., clean clothes, sound, movement). (3 marks)

QUESTION 2: Structures and Materials (10 marks)

2.1



A structure is something that is built to support or hold something. (3 marks)

2.2

Types of structures:

Frame structure

Shell structure

Solid structure (3 marks)

2.3

Strong materials are needed to make sure the structure is safe, lasts a long time, and can carry weight or resist weather. (4 marks)

QUESTION 3: Processing (10 marks)

3.1



Processing means changing materials to make something new or to improve it. (3 marks)

3.2

Examples of processing:

Cutting wood to make furniture

Mixing ingredients to bake bread (4 marks)

3.3

Tools for processing wood: saw, hammer, screwdriver, sandpaper. (3 marks)

QUESTION 4: Systems and Control – Picture Question (Washing Machine) (10 marks)

4.1

Washing machine (2 marks)



4.2

Part	Description	Marks
Input	Water, detergent, clothes, electricity	2
Process	Washing, spinning, rinsing	2
Output	Clean clothes	2

4.3

It is useful because it cleans clothes quickly and saves time and effort compared to washing by hand. (2 marks)

#### QUESTION 5: Tools and Safety (10 marks)

##### 5.1

Safety rules:

Always wear safety goggles/glasses

Use tools properly

Keep your work area clean and tidy

(Any 3 correct = 6 marks)

##### 5.2

Safety gear protects you from injuries like cuts, dust, or sparks while working with tools. (4 marks)