

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 Define what a **system** is in technology. (3)

1.2 List three parts that every system has. (3)

1.3 Explain the difference between **manual** and **automated** systems. (4)

QUESTION 2: Structures and Materials (10 marks)

2.1 What is the purpose of a **frame structure**? (3)

2.2 Name two materials that are strong and used to build structures. (4)

2.3 Why should we use the right materials for a structure? (3)

QUESTION 3: Processing and Tools (10 marks)

3.1 What is **processing** in technology? (3)

3.2 Name three common tools used in technology. (3)

3.3 Why is it important to use tools carefully? (4)

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

Fill in the table below with the correct answers.

System Type	Example	Description
Manual system		
Automated system		

QUESTION 5: Technology and the Environment (10 marks)

5.1 How can technology help to protect the environment? Give two examples. (6)

5.2 What does it mean to **reuse** materials? Why is this important? (4)

MYST PATHWORKS

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 set of parts that work together to do a specific job or task. (3 marks)

1.2

- Three parts of every system:
 - Input
 - Process
 - Output (3 marks)

1.3

- Manual system: controlled by a person doing the work (e.g., hand washing clothes).
 - Automated system: uses machines or computers to do the work (e.g., washing machine). (4 marks)
-

QUESTION 2: Structures and Materials (10 marks)

2.1

- A frame structure is used to support weight and hold other parts together. (3 marks)

2.2

- Strong materials used in structures:
 - Wood
 - Steel
 - Concrete*(Any two correct = 4 marks)*

2.3

- Using the right materials makes the structure safe, strong, and long-lasting. (3 marks)
-

QUESTION 3: Processing and Tools (10 marks)

3.1

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

3.2

- Common tools:
 - Hammer
 - Screwdriver
 - Saw (3 marks)

3.3

- Using tools carefully prevents accidents and damage to materials or people. (4 marks)

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

System Type	Example	Description
Manual system	Hand washing clothes	Person does the work without machines
Automated system	Washing machine	Machine does the work using electricity and controls

(Each correct row = 5 marks; total 10 marks)

QUESTION 5: Technology and the Environment (10 marks)

5.1

- Technology helps protect the environment by:
 - Using solar power instead of electricity from coal
 - Recycling materials to reduce waste (6 marks)

5.2

- Reuse means using materials or objects again instead of throwing them away.
- It is important because it saves resources and reduces pollution. (4 marks)