

SMARTWIZ

GRADE 6 TECHNOLOGY EXAM

MARKS: 50

MARKS	

TIME: 1 hour

SCHOOL _____

CLASS (e.g. 4A) _____

SURNAME _____

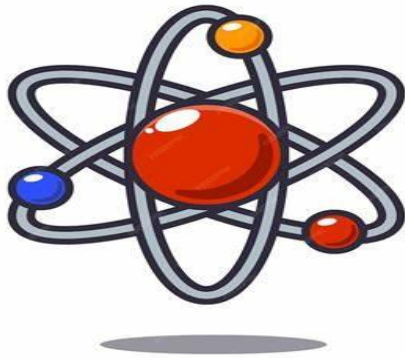
NAME _____

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: Structures (10 marks)



1.1 What is a *structure*? Give one example. (2)

1.2 Name **two natural structures** and **two man-made structures**. (4)

Natural structures: _____

Man-made structures: _____

1.3 What is the **purpose of a bridge**? (2)

1.4 Why is it important for buildings to have strong foundations? (2)

Question 2: Materials (8 marks)

2.1 What is meant by the term *material* in Technology? (2)



2.2 Complete the table below by writing whether each material is natural or processed: (6)

Material	Natural or Processed?
Wood	
Plastic	
Cotton	
Glass	
Wool	
Metal	

Question 3: Tools and Equipment (8 marks)

3.1 Name any **four tools** used for cutting or measuring. (4)

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

3.2 Why is it important to **use tools safely**? (2)

3.3 What **protective clothing** should you wear when working with tools? (2)

Question 4: Electrical Energy (8 marks)

4.1 What is **electrical energy**? (2)

4.2 Name **two appliances** that use electrical energy. (2)

1. _____
2. _____

4.3 Why should we **not touch plugs with wet hands**? (2)

4.4 What is the source of electricity in most homes? (2)

Question 5: Communication Technology (8 marks)

5.1 What is *communication technology*? (2)

5.2 Name **three examples** of communication devices. (3)

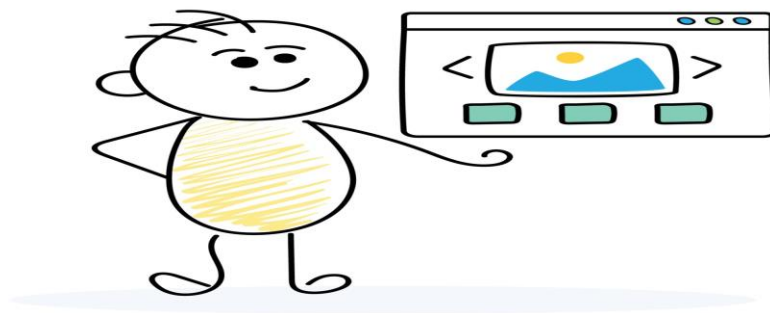
1. _____
2. _____
3. _____

5.3 What are two **advantages** of using cell phones? (2)

5.4 Mention one **disadvantage** of communication technology. (1)

MYST PATHWORKS

Question 6: Design Process (8 marks)



Web Design

6.1 List the **five steps** of the design process. (5)

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

6.2 Why is planning important before building something? (2)

6.3 What is a *prototype*? (1)

TOTAL: 50 MARKS



MEMO – Grade 6 Technology Exam

Total: 50 Marks

Question 1: Structures (10 marks)

1.1 A structure is something that has been built or made to support a load. Example: A house, bridge, chair. (2)

1.2

- Natural structures: Tree, mountain
- Man-made structures: Bridge, building (4)

1.3 To allow people or vehicles to cross over something like a river or road. (2)

1.4 Strong foundations help to support the structure and keep it stable and safe. (2)

Question 2: Materials (8 marks)

2.1 A material is what something is made from. It can be natural or processed. (2)

2.2

Material Natural or Processed?

Wood	Natural
Plastic	Processed
Cotton	Natural
Glass	Processed
Wool	Natural
Metal	Processed

(6 × 1 mark = 6)

Question 3: Tools and Equipment (8 marks)

3.1 Any four of the following:

- Ruler
- Measuring tape
- Scissors

- Hacksaw
 - Pliers
 - Hammer
- (Any correct = 4 marks)

3.2 To prevent injury or accidents while working. (2)

3.3 Gloves, goggles, apron, closed shoes. (Any correct protective clothing = 2)

Question 4: Electrical Energy (8 marks)

4.1 Electrical energy is the energy from electricity used to power devices. (2)

4.2 Any two:

- Kettle
 - Television
 - Microwave
 - Fan
 - Toaster
- (Any valid = 2)

4.3 Because it can cause electric shock, which is dangerous. (2)

4.4 Electricity from Eskom or power stations via power lines. (2)

Question 5: Communication Technology (8 marks)

5.1 It is technology used to send or receive messages and information. (2)

5.2

1. Cell phone
2. Computer
3. Television / Radio (Any valid = 3)

5.3

- Fast communication
 - Can access internet
- (Any 2 = 2)

5.4

- Expensive, causes distraction, reduces face-to-face interaction
- (Any valid = 1)

Question 6: Design Process (8 marks)

6.1

1. Investigate
 2. Design
 3. Make
 4. Evaluate
 5. Communicate
- (5 × 1 = 5)

6.2 So you can work carefully, solve problems, and avoid wasting time or materials. (2)

6.3 A model or first version of a product to test an idea. (1)

✓ **TOTAL: 50 MARKS**

