

STEAM Assessment Question Sheet

Student Name:	Class:
Student ID:	Date: {{DATE}}

Assessment Details

Duration: 2 hours	Total Marks: 100
Topics Covered:	ScienceTechnologyEngineeringArtsMathematics

Instructions to Students:

- 1. Read all questions carefully before attempting.
- 2. Show all working out marks are awarded for method.
- 3. Calculator use is permitted except where stated otherwise.
- 4. Write your answers in the spaces provided.
- 5. If you need more space, use the additional pages at the end.
- 6. Time management is crucial allocate approximately 1 minute per mark.

Section A: Multiple Choice [20 marks]

Question 1	[2 marks
What is the primary goal of the scientific	method?
A) To prove a hypothesis	B) To disprove a hypothesis
C) To develop a theory	D) To test a theory
Question 2	[2 marks
	[2 marks
Question 2	[2 marks

Section B: Short Answer Questions [40 marks]

[10 marks
[10 marks

Section C: Project-Based Task [40 marks]

Question 5	[40 marks]
Design and propose a solution to a real-world problem using STEAM principles.	
a) Identify the problem and its significance [5 marks]	
b) Develop a design brief and proposal [15 marks]	
c) Create a prototype or model [10 marks]	
d) Evaluate and refine the solution [10 marks]	
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Activity 1: STEAM Principles Matching Game

Match the STEAM principle with its definition:

1. Science	
2. Technology	
3. Engineering	
4. Arts	
5. Mathematics	

Definitions:

- The study of the natural world around us.
- The application of scientific knowledge for practical purposes.
- The process of designing, building, and testing solutions.
- The expression of human creativity.
- The study of numbers, quantities, and shapes.

Activity 2: Design a Solution

/hat is the problem? [5 marks]
ow can STEAM principles be applied to solve the problem? [10 marks]
/hat materials and resources are needed? [5 marks]
ow will the solution be presented and communicated? [10 marks]

Activity 3: STEAM Concept Mapping

Create a concept map showing the connections between different STEAM principles.		

Include the following:

- Science
- Technology
- Engineering
- Arts
- Mathematics
- How each principle relates to the others
- Examples of how STEAM principles are used in real-world applications

Activity 4: STEAM Principles Quiz

Complete the quiz to assess your understanding of STEAM principles.

Question 1	[2 marks
What is the primary goal of the scientific	method?
A) To prove a hypothesis	B) To disprove a hypothesis
C) To develop a theory	D) To test a theory
o) to develop a mostly	b) To test a theory
Question 2	
Question 2	[2 marks
	[2 marks

Activity 5: Reflective Journaling

reflect on your learning and understanding of STEAM concepts.
a) What did you learn about STEAM principles? [5 marks]
b) How can STEAM principles be applied to solve real-world problems? [10 marks]
c) What challenges did you face during the assessment? [5 marks]
d) What would you do differently next time? [10 marks]