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

Assessment Details

Duration: 45 minutes	Total Marks: 100
Topics Covered:	Introduction to Physics and Chemistry Fundamentals

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]

B) A change in velocity	
D) A change in force	
	[2 marks
tion?	
B) Decomposition	
D) All of the above	
	[2 marks
B) Saturn	
D) Uranus	
	[2 marks
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B) Photosynthesis	
D) Fermentation	
	D) A change in force B) Decomposition D) All of the above B) Saturn D) Uranus

What is the scientific term for the "building blocks of matter"?

A) Molecules	B) Cells
C) Tissues	D) Atoms

Section B: Short Answer Questions [40 marks]

Question 6	[8 marks
Describe the difference between a scalar and a vector quantity. Provide an example of each.	
Question 7	[8 marks
What is the difference between a mixture and a solution? Provide an example of each.	
Question 8	[8 marks
explain the concept of energy and its different forms.	
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Question 9	[8 marks
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Describe the process of photosynthesis and its importance in our ecosystem.	

Question 10	[8 marks]
What is the scientific method and how is it used in physics	and chemistry?

Section C: Essay Question [40 marks]

Question 11	[40 marks]
Choose one of the following essay questions and answer it in 2-3 pages.	
A) Describe the concept of energy and its different forms. Explain how energy is transferred and transformed from one form to another. Provide examples of each.	d
B) Explain the process of chemical reactions and the different types of reactions. Provide exame each and explain their importance in our daily lives.	nples of

Marking Guide

Multiple Choice Questions: 1 point each

Short Answer Questions: 2-3 points each

Essay Question: 10-15 points

Implementation Guidelines

Time allocation: 45 minutes

Administration tips:

- Ensure students have a clear understanding of the instructions and the format of the assessment.
- Provide students with a copy of the assessment and a pencil.
- Encourage students to ask questions if they are unsure about any of the instructions or questions.

Differentiation Options

To accommodate diverse learners, the following differentiation options will be available:

- For students with visual impairments: large print or braille versions of the assessment will be provided.
- For students with learning disabilities: extra time or a reader will be provided.
- For English language learners: a bilingual dictionary or a translator will be provided.
- For gifted students: additional challenging questions or a separate assessment will be provided.

Teaching Tips

To ensure academic rigor and alignment with learning objectives, teachers should:

- Review the learning objectives and ensure that the assessment aligns with them.
- Use a variety of question types to assess different levels of Bloom's Taxonomy.
- Provide clear instructions and examples to students.
- Encourage students to ask questions and seek help when needed.
- Use the assessment results to inform instruction and adjust teaching strategies.

This assessment is designed to evaluate your understanding of basic physics and chemistry concepts. Remember to read each question carefully and answer to the best of your ability. Good luck!
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Conclusion