

Year 10 Chemistry Assessment

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

Duration: 45 minutes	Total Marks: 100
Topics Covered:	 Definition and types of bases Chemical formulas for bases Strong and weak bases Real-world applications of bases

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 definition of a base in chemistry?		
A) A substance that donates a proton (H+ ion)	B) A substance that accepts a proton (H+ ion)	
C) A substance that is neutral in pH	D) A substance that can conduct electricity	
Question 2	[2 marks]	
Which of the following is an example of a strong ba	ase?	
A) Sodium hydroxide (NaOH)	B) Ammonia (NH3)	
C) Acetic acid (CH3COOH)	D) Hydrochloric acid (HCI)	
Question 3	[2 marks	
What is the chemical formula for calcium hydroxide	e?	
A) Ca(OH)2	B) CaH2	
C) CaO	D) CaCl2	

Section B: Short Answer Questions [40 marks]

Question 4	[10 marks]
Describe the difference between a strong base and a weak bas	se. Provide one example of each.
Question 5	[10 marks]
Write the chemical formula for aluminum hydroxide and explain	n its common use.
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Question 6	[10 marks]
What is the pH of a strong base? Explain your answer.	

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Section C: Essay Question [40 marks]

Question 7	[40 marks]
Choose one real-world application of bases (such as in soap making, water treat pharmaceuticals) and describe how bases are used in this application. Be sure bases involved, their properties, and why they are suitable for this particular use	to include the types of

Additional Space for Answers