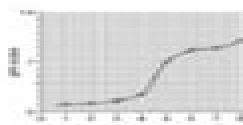


4. State the colour of universal indicator in solutions of
- an acid \_\_\_\_\_ (1 mark)
  - an alkali \_\_\_\_\_ (1 mark)
5. a Do acids taste sweet or sour? \_\_\_\_\_ (1 mark)
- b Which is dangerous: acid, alkali or they can both be dangerous? \_\_\_\_\_ (1 mark)

6. Aaf' wanted to investigate the pH changes when an acid reacts with an alkali.

He put 5 cm<sup>3</sup> of the acid in a tube.  
He added the alkali 1 cm<sup>3</sup> at a time.  
Each time he added the alkali, he measured the pH of the solution.  
His results are shown on the graph.



- a Suggest a way in which Aaf' could have measured the pH of the solution. \_\_\_\_\_ (1 mark)
- b State the volume of alkali Aaf' needed to make the solution neutral. \_\_\_\_\_ (1 mark)
- c Explain what the graph shows. \_\_\_\_\_ (2 marks)

7. A substance has a pH of 12.  
State the hazard symbol that should be on a bottle. \_\_\_\_\_ (1 mark)
- Is the substance an acid or an alkali? \_\_\_\_\_ (1 mark)
8. An indicator called bromothymol blue is yellow in an acid and blue in an alkali.  
Suggest the colour of bromothymol blue in a neutral solution. \_\_\_\_\_ (1 mark)
9. The word equation for a reaction is  
nitric acid + potassium hydroxide → potassium nitrate + water  
a State the names of the two reactants in the word equation. \_\_\_\_\_ (2 marks)
- b State the name of the salt in the word equation. \_\_\_\_\_ (1 mark)
10. Hydrochloric acid reacts with calcium oxide to make calcium chloride and water.  
Write the word equation for this reaction. \_\_\_\_\_ (2 marks)

11. Elen investigated the temperature rise when different acids were added to sodium hydroxide solution.  
She measured 10 cm<sup>3</sup> of sodium hydroxide solution, and noted the temperature.  
She added 10 cm<sup>3</sup> of an acid to the sodium hydroxide solution and noted the new temperature.  
She calculated the temperature rise.  
She repeated the experiment with the same volume of the sodium hydroxide solution but added different acids to it.  
Her results are in the table.

Acid added to sodium hydroxide solution	Temperature rise (°C)
nitric acid	5.0
hydrochloric acid	13.0
nitric acid	13.0
sulphuric acid	8.0

6. Answer the following questions using one of the substances in the box below.
- |            |              |           |       |               |
|------------|--------------|-----------|-------|---------------|
| pure water | citrus juice | indicator | sugar | soapy cleaner |
|------------|--------------|-----------|-------|---------------|
- a Which substance contains an acid? \_\_\_\_\_ (1 mark)
- b Which substance contains an alkali? \_\_\_\_\_ (1 mark)
- c Which substance changes colour to show an acid or an alkali? \_\_\_\_\_ (1 mark)
7. State what each of these hazard symbols means.



\_\_\_\_\_ (1 mark)

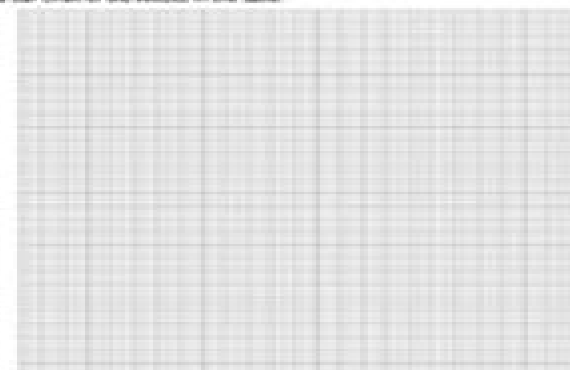


\_\_\_\_\_ (1 mark)



8. A bottle of acid is labelled with this hazard symbol.  
State two safety precautions you would take before using that acid in an experiment.  
Precaution 1 \_\_\_\_\_ (1 mark)

- a. State which variable has been changed in this experiment (the independent variable). \_\_\_\_\_ (1 mark)
- b. State which variable has been measured (the dependent variable). \_\_\_\_\_ (1 mark)
- c. State the word that describes the reaction between an acid and an alkali. \_\_\_\_\_ (1 mark)
- d. Plot a bar chart of the results in the table. \_\_\_\_\_ (2 marks)



e. Write a title for the chart. \_\_\_\_\_ (1 mark)

# Science 7e 7f

**Michael Rajnik**



**Science 7e 7f:**

## Whispering the Techniques of Language: An Emotional Journey through **Science 7e 7f**

In a digitally-driven earth where monitors reign supreme and immediate interaction drowns out the subtleties of language, the profound strategies and psychological nuances concealed within words usually get unheard. However, located within the pages of **Science 7e 7f** a fascinating fictional value pulsating with raw emotions, lies an exceptional journey waiting to be undertaken. Written by a talented wordsmith, this wonderful opus encourages visitors on an introspective journey, gently unraveling the veiled truths and profound impact resonating within the fabric of each and every word. Within the mental depths with this touching review, we can embark upon a genuine exploration of the book is key subjects, dissect its captivating publishing style, and yield to the powerful resonance it evokes heavy within the recesses of readers hearts.

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### **Table of Contents Science 7e 7f**

1. Understanding the eBook Science 7e 7f
  - The Rise of Digital Reading Science 7e 7f
  - Advantages of eBooks Over Traditional Books
2. Identifying Science 7e 7f
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Science 7e 7f
  - User-Friendly Interface
4. Exploring eBook Recommendations from Science 7e 7f
  - Personalized Recommendations

- 
- Science 7e 7f User Reviews and Ratings
  - Science 7e 7f and Bestseller Lists
5. Accessing Science 7e 7f Free and Paid eBooks
    - Science 7e 7f Public Domain eBooks
    - Science 7e 7f eBook Subscription Services
    - Science 7e 7f Budget-Friendly Options
  6. Navigating Science 7e 7f eBook Formats
    - ePub, PDF, MOBI, and More
    - Science 7e 7f Compatibility with Devices
    - Science 7e 7f Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Science 7e 7f
    - Highlighting and Note-Taking Science 7e 7f
    - Interactive Elements Science 7e 7f
  8. Staying Engaged with Science 7e 7f
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Science 7e 7f
  9. Balancing eBooks and Physical Books Science 7e 7f
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Science 7e 7f
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Science 7e 7f
    - Setting Reading Goals Science 7e 7f
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Science 7e 7f
    - Fact-Checking eBook Content of Science 7e 7f

- Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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