

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 cm³ of the acid in a tube.
He added the alkali 1 cm³ 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 cm³ of sodium hydroxide solution, and noted the temperature.
She added 10 cm³ 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 | citric 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.

a  _____ (1 mark)

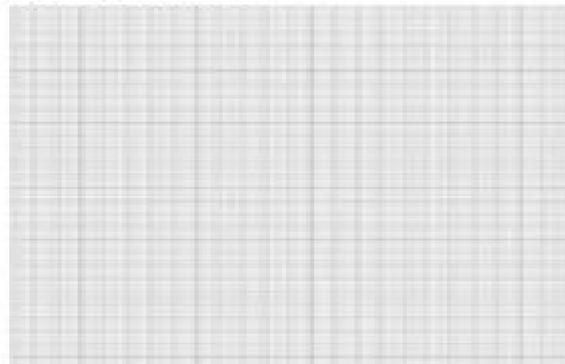
b  _____ (1 mark)

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)

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