



CAMBRIDGE HOUSE GRAMMAR SCHOOL REVISION CHECKLIST

YEAR 8: SCIENCE

Winter 2025

Your Winter Examination will assess your knowledge and understanding of the topics listed (below).

Use this checklist to help you with your revision and identify any gaps in your knowledge.

I can:	✓	✗
1. State the names of the main areas of Science.		
2. List some activities which are carried out in Science.		
3. Give examples of jobs Scientists do		
4. Label and correctly spell the parts of a Bunsen burner.		
5. Light a Bunsen burner safely.		
6. Draw a conclusion from our observations in an experiment.		
7. Accurately draw the symbols for apparatus used in KS3 Science.		
8. Correctly spell the names for science apparatus.		
9. Identify the apparatus from diagrams.		
10. Recall the units for measurements.		
11. Choose appropriate scientific apparatus to make basic measurements.		
12. Use basic measurement apparatus to make accurate measurements.		
13. Plan a simple experiment using the scientific method		
14. Discuss the meaning of a <i>fair test</i> and plan a fair test experiment		
15. Be able to identify independent, dependent and controlled variables in an investigation		
16. Know when to use a line graph to represent results		
17. Successfully draw a line graph		
18. Know when to use a bar graph to represent results		
19. Successfully draw a bar graph		
20. Identify Hazard symbols		
21. Carry out a risk assessment		
22. Describe the three states of matter, solid, liquid and gas in terms of particle arrangement and movement		
23. Draw particle diagrams of solids, liquids and gases		



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I can:	✓	✗
24. Recall the physical properties of solids, liquids and gases		
25. Explain why some substances expand when heated and during changes of state		
26. Define and explain diffusion in liquids and gases		
27. Identify and name the changes of state between solids, liquids and gases		
28. Recall that changes of state are examples of physical changes		
29. Explain differences between physical and chemical changes		
30. Identify signs of a chemical change		
31. Recall that combustion is an example of a chemical change		
32. The 3 factors needed for a fire to burn		
33. Recognise living things		
34. List the seven characteristics of living things		
35. Know that all living things are made of cells		
36. Label the parts of an animal and a plant cell and describe their functions		
37. Identify similarities and differences between plant and animal cells		
38. Prepare an onion slide		
39. Label a microscope and develop practical skills using microscopes		
40. List and describe some specialised animal and plant cells		
41. Work out the magnification of a microscope		