



## Summer 2026

Your summer 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:	✓	x
1. Define acids and alkalis		
2. Name some common acids found in everyday substances and food		
3. Name laboratory acids and their formulae (HCl, H <sub>2</sub> SO <sub>4</sub> , HNO <sub>3</sub> )		
4. Name common alkalis (Ammonia and Sodium hydroxide)		
5. Name uses for common alkali substances		
6. Recall meanings for hazard symbols and be able to draw and explain meaning		
7. Know what an indicator is		
8. Describe how to make red cabbage indicator		
9. Know the colour changes for litmus and universal indicator		
10. Recall what ions are released when Acids are dissolved in water		
11. Recall what ions are released when alkalis are dissolved in water		
12. State the equation between Average Speed, distance travelled and time taken.		
13. Use the equation between Average Speed, distance travelled and time taken to carry out calculations.		
14. State the units of Speed.		
15. Interpret a Distance – time graph.		
16. Draw a distance – time graph from information given.		
17. Use information from a Distance – time Graph to calculate speed.		
18. Use a Distance – time graph to describe an objects journey.		
19. State the definition of Thinking Distance.		
20. State the definition of Braking Distance.		
21. State how to calculate the total braking distance.		
22. Write down how total stopping distance can be increased.		
23. Interpret a thinking distance/braking distance chart.		



# CAMBRIDGE HOUSE GRAMMAR SCHOOL REVISION CHECKLIST

## YEAR 9: Science

I can:	✓	x
24. Name the 7 food groups and their role in the body		
25. Match foods with the nutrients found in it.		
26. Recall how to carry out the food test: Protein; Sugar ; Starch; Fat		
27. Recall the consequences of imbalances in the diet, including obesity, starvation and deficiency diseases		
28. Recall the investigation to measure energy content in food		
29. Digestive system – know the main organs and their function		
30. Chemical digestion - know the definition of an enzyme, the names of 3 digestive enzymes and their role.		
31. Sort substances into elements and compounds		
32. Interpret chemical formulae		
33. Understand the idea of energy change during compound formation		
34. Describe the formation of iron sulfide from its elements : iron and sulfur		
35. Describe how elements can react with the substances around them		
36. Explain that metals often react with the elements in the air to form compounds		
37. Explain that thermal decomposition means to break down a compound using heat energy		
38. Evidence for a chemical reaction has taking place		
39. Recognise that reactions can take place between elements or compounds		
40. Explain observations in terms of reacting particles		
41. Classify materials as elements, compounds and mixtures		
42. Explain that mixtures do not have a fixed composition and cannot be represented by a chemical formula		
43. Know that particles in a mixture are not chemically joined together		
44. Know that elements and compounds melt and boil at a particular temperature		
45. Explain how the melting and boiling points can be used to identify substances		
46. Know that mixtures do not melt or boil at a fixed temperature		
47. Recall what a solvent and a solute are		
48. Recall what a solution is.		



# CAMBRIDGE HOUSE GRAMMAR SCHOOL REVISION CHECKLIST

## YEAR 9: Science

I can:	✓	x
49. Recall what dissolving means.		
50. Recall what soluble means.		
51. Recall how temperature affects the solubility of a solid.		
52. Recall how stirring affects the solubility of a solid.		
53. Recall how to separate Immiscible liquids.		
54. Recall how to separate miscible liquids.		
55. Recall how to separate pigments.		
56. Recall how to separate a soluble substance from an insoluble substance.		
57. Recall how to separate pure water from salt water.		
58. Recall what a Liebig Condenser is.		
59. Recall the benefits of exercise.		
60. Recall the respiration equation and the ways energy is used in food.		
61. The structure and function of gas exchange system in humans.		
62. The mechanism of breathing to move air in and out of the lungs.		
63. Recall the test for carbon dioxide		
64. Recall the composition of air		
65. Simple measurements of lung volume.		
66. The impact of exercise, asthma and smoking (tar, nicotine, & carbon monoxide) and vaping on the human gas exchange system.		
67. The role of leaf stomata in gas exchange in plants.		
68. Describe electric current as the flow of electrons.		
69. Describe electric circuits.		
70. Recognise a complete working circuit.		
71. Recall circuit symbols for common components		
72. Relate bulb brightness to current.		
73. Identify series and parallel circuits.		
74. Describe what happens to current in series and parallel circuits.		
75. Calculate the current at different places in a series and parallel circuit.		



# CAMBRIDGE HOUSE GRAMMAR SCHOOL REVISION CHECKLIST

## YEAR 9: Science

76. State the effect of removing a light bulb in each type of circuit.		
77. Define the terms conductor and insulator.		
78. Design and build a circuit to test if a material conducts electricity.		
79. Categorize materials as conductors and insulators.		
80. Describe resistance.		
81. Define conductors and insulators in terms of resistance.		
82. Give examples of variable resistors in everyday life.		
83. Where living things get their energy		
84. The equation for respiration		
85. The equation for photosynthesis		
86. How to test a leaf for starch		
87. Know the structure of a leaf		
88. Explain how gases can enter and leave the leaf		
89. Compare leaves and appreciate the similarities and differences between them.		
90. Know the structure of a leaf.		
91. The key terms for food chains		
92. How energy is lost in food chains		
93. What a food chain and food web are		
94. What happens if an organism is removed from a food web How to draw pyramids of numbers		
95. The key terms habitat, environment & adaptation		
96. The ways certain animals & plants are adapted to their environment		