



CAMBRIDGE HOUSE GRAMMAR SCHOOL REVISION CHECKLIST YEAR 10: PHYSICS

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:	✓	✗
1. Define density and recall its units		
2. Explain why different objects have different densities		
3. Explain floating and sinking in terms of density		
4. Recall and use the density equation		
5. Describe and conduct an experiment to find the density of a liquid		
6. Graphically analyse experimental results to determine the relationship between mass and volume		
7. Describe and conduct an experiment to find the density of an irregular object		
8. Give examples of high- and low-pressure situations		
9. Define pressure and discuss how it can be increased/decreased		
10. Recall and use the equation for pressure		
11. Recall a mass of 1kg is equivalent to 10N		
12. Complete an experiment to calculate a person's pressure		
13. Discuss how pressure affects our everyday lives		
14. Give examples of levers and what they are used for		
15. Recall the definition of moment		
16. Use the equation for moment		
17. Investigate the relationship between clockwise and anticlockwise moments		
18. Recall and apply the Principle of Moments		



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19. Define centre of gravity		
20. Determine the centre of gravity for regular and irregular objects		
21. Explain how objects can be made more stable and the role centre of gravity plays in this		
22. Recall the names and definitions of the most common forces in our everyday lives		
23. Describe and explain the effect of balanced and unbalanced forces on objects		
24. Define and calculate the resultant force acting on an object		
25. Design and conduct an experiment to investigate the relationship between force and extension of springs		
26. Recall Hooke's Law		
27. Recall and use the equation for Hooke's Law		
28. Recall and discuss the key points of a graph to represent Hooke's Law		
29. Define and categorise transverse and longitudinal waves		
30. Label crest, trough, compression and rarefaction on a wave diagram		
31. Define amplitude, wavelength and frequency		
32. Determine amplitude and wavelength from a wave diagram		
33. Calculate the frequency of a wave		
34. Recall and use the wave equation to find wavelength, wave speed or frequency		
35. Use standard form to represent large and small numbers		
36. Use prefixes to represent large and small numbers		
37. Recall the electromagnetic spectrum in order of wavelength		
38. Give three common properties of all parts of the electromagnetic spectrum		
39. Recall and explain the uses and dangers of each part of the electromagnetic spectrum		
40. Describe the difference between heat and temperature, including units		



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41. Recall that heat energy travels from hot to cold places		
42. Describe & explain the differences between conductors & insulators, including their uses		
43. Conduct an experiment to determine which materials are the best conductors		
44. Define convection and describe how it takes place		
45. Explain examples of convection in everyday situations		
46. Conduct an experiment to show convection in liquids		
47. Define infrared radiation and understand where it comes from		
48. Conduct an experiment to show which materials are good reflectors and absorbers of radiation		
49. Give examples of good emitters/reflectors/absorbers of heat		
50. Explain how heat loss can be reduced in the home		
51. Label a diagram of the vacuum flask		
52. Discuss how its design minimises heat loss		
53. Design & conduct an experiment to show the shiny surface on the inside of the flask reflects heat		