A-Level Physics

Scheme of Work · 教学计划

A starting allocation over 56 teaching weeks, weighted by the lessons the teaching plan gives each topic, and beyond the plan by each topic's syllabus statements and past-paper marks on the same scale — adjust to your own calendar. The last column lists the Library material that already covers the topic. 这是按教学计划中各主题的课时 (计划未覆盖的主题按大纲条目与真题分值折算) 分配的起始教学计划, 可按实际校历调整; 最后一栏列出资料库中已有的配套材料。

Weeks	Topic	Subtopics	Library material
1–2	**1. Physical quantities and units** 物理量与单位	1.1, 1.2, 1.3, 1.4	Handout · 4 Learn lessons · Slide deck · Vocabulary list · Starter quiz · 4 exercise sheets · 4 past-paper sheets · Unit test
3–5	**2. Kinematics** 运动学	2.1	Handout · 3 Learn lessons · Slide deck · Vocabulary list · Starter quiz · 6 exercise sheets · 6 past-paper sheets · Unit test
6–8	**3. Dynamics** 动力学	3.1, 3.2, 3.3	Handout · 3 Learn lessons · Slide deck · Vocabulary list · Starter quiz · 6 exercise sheets · 5 past-paper sheets · Unit test
9–11	**4. Forces, density and pressure** 力、密度与压强	4.1, 4.2, 4.3	Handout · 3 Learn lessons · Slide deck · Vocabulary list · Starter quiz · 5 exercise sheets · 5 past-paper sheets · Unit test
12–13	**5. Work, energy and power** 功、能量与功率	5.1, 5.2	Handout · 2 Learn lessons · Slide deck · Vocabulary list · Starter quiz · 4 exercise sheets · 4 past-paper sheets · Unit test
14–15	**6. Deformation of solids** 固体的形变	6.1, 6.2	Handout · 2 Learn lessons · Slide deck · Vocabulary list · Starter quiz · 3 exercise sheets · 3 past-paper sheets · Unit test
16–18	**7. Waves** 波	7.1, 7.2, 7.3, 7.4, 7.5	Handout · 5 Learn lessons · Slide deck · Vocabulary list · Starter quiz · 6 exercise sheets · 6 past-paper sheets · Unit test
19–20	**8. Superposition** 叠加	8.1, 8.2, 8.3, 8.4	Handout · 4 Learn lessons · Slide deck · Vocabulary list · Starter quiz · 4 exercise sheets · 4 past-paper sheets · Unit test
21–22	**9. Electricity** 电学	9.1, 9.2, 9.3	Handout · 3 Learn lessons · Slide deck · Vocabulary list · Starter quiz · 4 exercise sheets · 4 past-paper sheets · Unit test
23–25	**10. D.C. circuits** 直流电路	10.1, 10.2, 10.3	Handout · 3 Learn lessons · Slide deck · Vocabulary list · Starter quiz · 6 exercise sheets · 6 past-paper sheets · Unit test

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26–27	**11. Particle physics** 粒子物理	11.1, 11.2	Handout · 3 Learn lessons · Slide deck · Vocabulary list · Starter quiz · 5 exercise sheets · 5 past-paper sheets · Unit test
28–29	**12. Motion in a circle** 圆周运动	12.1, 12.2	Handout · 2 Learn lessons · Slide deck · Vocabulary list · 2 exercise sheets · 2 past-paper sheets · Unit test
30–31	**13. Gravitational fields** 引力场	13.1, 13.2, 13.3, 13.4	Handout · 4 Learn lessons · Slide deck · Vocabulary list · 4 exercise sheets · 4 past-paper sheets · Unit test
32–33	**14. Temperature** 温度	14.1, 14.2, 14.3	Handout · 3 Learn lessons · Slide deck · Vocabulary list · 3 exercise sheets · 3 past-paper sheets · Unit test
34–35	**15. Ideal gases** 理想气体	15.1, 15.2, 15.3	Handout · 3 Learn lessons · Slide deck · Vocabulary list · 4 exercise sheets · 3 past-paper sheets · Unit test
36–37	**16. Thermodynamics** 热力学	16.1, 16.2	Handout · 2 Learn lessons · Slide deck · Vocabulary list · 2 exercise sheets · 2 past-paper sheets · Unit test
38–39	**17. Oscillations** 振动	17.1, 17.2, 17.3	Handout · 3 Learn lessons · Slide deck · Vocabulary list · 4 exercise sheets · 3 past-paper sheets · Unit test
40–41	**18. Electric fields** 电场	18.1, 18.2, 18.3, 18.4, 18.5	Handout · 5 Learn lessons · Slide deck · Vocabulary list · 5 exercise sheets · 5 past-paper sheets · Unit test
42–43	**19. Capacitance** 电容	19.1, 19.2, 19.3	Handout · 3 Learn lessons · Slide deck · Vocabulary list · 3 exercise sheets · 3 past-paper sheets · Unit test
44–46	**20. Magnetic fields** 磁场	20.1, 20.2, 20.3, 20.4, 20.5	Handout · 5 Learn lessons · Slide deck · Vocabulary list · 7 exercise sheets · 5 past-paper sheets · Unit test
47–48	**21. Alternating currents** 交流电	21.1, 21.2	Handout · 2 Learn lessons · Slide deck · Vocabulary list · 2 exercise sheets · 2 past-paper sheets · Unit test
49–50	**22. Quantum physics** 量子物理	22.1, 22.2, 22.3, 22.4	Handout · 4 Learn lessons · Slide deck · Vocabulary list · 5 exercise sheets · 4 past-paper sheets · Unit test

Weeks	Topic	Subtopics	Library material
51–52	**23. Nuclear physics** 核物理	23.1, 23.2	Handout · 3 Learn lessons · Slide deck · Vocabulary list · 4 exercise sheets · 2 past-paper sheets · Unit test
53–54	**24. Medical physics** 医学物理	24.1, 24.2, 24.3	Handout · 3 Learn lessons · Slide deck · Vocabulary list · 5 exercise sheets · 3 past-paper sheets · Unit test
55–56	**25. Astronomy and cosmology** 天文学与宇宙学	25.1, 25.2, 25.3	Handout · 3 Learn lessons · Slide deck · Vocabulary list · 3 exercise sheets · 3 past-paper sheets · Unit test