A-Level Chemistry

Scheme of Work · 教学计划

A starting allocation over 56 teaching weeks, weighted by each topic's syllabus statements and share of past-paper marks — adjust to your own calendar. The last column lists the Library material that already covers the topic. 这是按各主题的大纲条目数与真题分值占比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. Atomic structure** 原子结构	1.1, 1.2, 1.3, 1.4	Handout · 6 Learn lessons · Slide deck · Vocabulary list · Starter quiz · 4 exercise sheets · 4 past-paper sheets · Unit test
3–4	**2. Atoms, molecules and stoichiometry** 原子、分子与化学计量	2.1, 2.2, 2.3, 2.4	Handout · 6 Learn lessons · Slide deck · Vocabulary list · Starter quiz · 4 exercise sheets · 4 past-paper sheets · Unit test
5–6	**3. Chemical bonding** 化学键	3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7	Handout · 9 Learn lessons · Slide deck · Vocabulary list · Starter quiz · 7 exercise sheets · 7 past-paper sheets · Unit test
7	**4. States of matter** 物质的状态	4.1, 4.2	Handout · 3 Learn lessons · Slide deck · Vocabulary list · 2 exercise sheets · 2 past-paper sheets · Unit test
8–9	**5. Chemical energetics** 化学能量学	5.1, 5.2	Handout · 3 Learn lessons · Slide deck · Vocabulary list · Starter quiz · 2 exercise sheets · 2 past-paper sheets · Unit test
10	**6. Electrochemistry** 电化学	6.1	Handout · 2 Learn lessons · Slide deck · Vocabulary list · Starter quiz · 1 exercise sheet · 1 past-paper sheet · Unit test
11–12	**7. Equilibria** 平衡	7.1, 7.2	Handout · 7 Learn lessons · Slide deck · Vocabulary list · Starter quiz · 2 exercise sheets · 2 past-paper sheets · Unit test
13	**8. Reaction kinetics** 反应动力学	8.1, 8.2, 8.3	Handout · 3 Learn lessons · Slide deck · Vocabulary list · Starter quiz · 3 exercise sheets · 3 past-paper sheets · Unit test
14–15	**9. The Periodic Table: chemical periodicity** 元素周期表：化学周期性	9.1, 9.2, 9.3	Handout · 4 Learn lessons · Slide deck · Vocabulary list · Starter quiz · 3 exercise sheets · 3 past-paper sheets · Unit test
16	**10. Group 2** 第 2 族	10.1	Handout · 2 Learn lessons · Slide deck · Vocabulary list · Starter quiz · 1 exercise sheet · 1 past-paper sheet · Unit test
17–18	**11. Group 17** 第 17 族	11.1, 11.2, 11.3, 11.4	Handout · 4 Learn lessons · Slide deck · Vocabulary list · Starter quiz · 4 exercise sheets · 4 past-paper sheets · Unit test
19	**12. Nitrogen and sulfur** 氮与硫	12.1	Handout · 2 Learn lessons · Slide deck · Vocabulary list · 1 exercise sheet · 1 past-paper sheet · Unit test
20–21	**13. An introduction to AS Level organic chemistry** AS Level 有机化学导论	13.1, 13.2, 13.3, 13.4	Handout · 6 Learn lessons · Slide deck · Vocabulary list · Starter quiz · 4 exercise sheets · 4 past-paper sheets · Unit test
22–23	**14. Hydrocarbons** 烃	14.1, 14.2	Handout · 4 Learn lessons · Slide deck · Vocabulary list · Starter quiz · 2 exercise sheets · 2 past-paper sheets · Unit test
24	**15. Halogen compounds** 卤素化合物	15.1	Handout · 2 Learn lessons · Slide deck · Vocabulary list · Starter quiz · 1 exercise sheet · 1 past-paper sheet · Unit test
25	**16. Hydroxy compounds** 羟基化合物	16.1	Handout · 2 Learn lessons · Slide deck · Vocabulary list · Starter quiz · 1 exercise sheet · 1 past-paper sheet · Unit test
26	**17. Carbonyl compounds** 羰基化合物	17.1	Handout · 2 Learn lessons · Slide deck · Vocabulary list · Starter quiz · 1 exercise sheet · 1 past-paper sheet · Unit test
27	**18. Carboxylic acids and derivatives** 羧酸及其衍生物	18.1, 18.2	Handout · 2 Learn lessons · Slide deck · Vocabulary list · Starter quiz · 2 exercise sheets · 2 past-paper sheets · Unit test
28	**19. Nitrogen compounds** 含氮化合物	19.1, 19.2	Handout · 2 Learn lessons · Slide deck · Vocabulary list · 2 exercise sheets · 2 past-paper sheets · Unit test
29	**20. Polymerisation** 聚合	20.1	Handout · 1 Learn lesson · Slide deck · Vocabulary list · 1 exercise sheet · 1 past-paper sheet · Unit test
30	**21. Organic synthesis** 有机合成	21.1	Handout · 2 Learn lessons · Slide deck · Vocabulary list · 1 exercise sheet · 1 past-paper sheet
31	**22. Analytical techniques** 分析技术	22.1, 22.2	Handout · 2 Learn lessons · Slide deck · Vocabulary list · 2 exercise sheets · 2 past-paper sheets · Unit test

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32–33	**23. Chemical energetics** 化学能量学	23.1, 23.2, 23.3, 23.4	Handout · 4 Learn lessons · Slide deck · Vocabulary list · 4 exercise sheets · 4 past-paper sheets · Unit test
34–35	**24. Electrochemistry** 电化学	24.1, 24.2	Handout · 3 Learn lessons · Slide deck · Vocabulary list · 2 exercise sheets · 2 past-paper sheets · Unit test
36–37	**25. Equilibria** 平衡	25.1, 25.2	Handout · 4 Learn lessons · Slide deck · Vocabulary list · 2 exercise sheets · 2 past-paper sheets · Unit test
38–39	**26. Reaction kinetics** 反应动力学	26.1, 26.2	Handout · 4 Learn lessons · Slide deck · Vocabulary list · 2 exercise sheets · 2 past-paper sheets · Unit test
40	**27. Group 2** 第 2 族	27.1	Handout · 2 Learn lessons · Slide deck · Vocabulary list · 1 exercise sheet · 1 past-paper sheet · Unit test
41–43	**28. Chemistry of transition elements** 过渡元素化学	28.1, 28.2, 28.3, 28.4, 28.5	Handout · 6 Learn lessons · Slide deck · Vocabulary list · 5 exercise sheets · 5 past-paper sheets · Unit test
44–45	**29. An introduction to A Level organic chemistry** A Level 有机化学导论	29.1, 29.2, 29.3, 29.4	Handout · 4 Learn lessons · Slide deck · Vocabulary list · 4 exercise sheets · 4 past-paper sheets · Unit test
46	**30. Hydrocarbons** 烃	30.1	Handout · 2 Learn lessons · Slide deck · Vocabulary list · 1 exercise sheet · 1 past-paper sheet · Unit test
47	**31. Halogen compounds** 卤素化合物	31.1	Handout · 1 Learn lesson · Slide deck · Vocabulary list · 1 exercise sheet · 1 past-paper sheet
48	**32. Hydroxy compounds** 羟基化合物	32.1, 32.2	Handout · 2 Learn lessons · Slide deck · Vocabulary list · 2 exercise sheets · 2 past-paper sheets · Unit test
49–50	**33. Carboxylic acids and derivatives** 羧酸及其衍生物	33.1, 33.2, 33.3	Handout · 3 Learn lessons · Slide deck · Vocabulary list · 3 exercise sheets · 3 past-paper sheets · Unit test
51–52	**34. Nitrogen compounds** 含氮化合物	34.1, 34.2, 34.3, 34.4	Handout · 4 Learn lessons · Slide deck · Vocabulary list · 4 exercise sheets · 4 past-paper sheets · Unit test
53	**35. Polymerisation** 聚合	35.1, 35.2, 35.3	Handout · 3 Learn lessons · Slide deck · Vocabulary list · 3 exercise sheets · 3 past-paper sheets

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54	**36. Organic synthesis** 有机合成	36.1	Handout · 1 Learn lesson · Slide deck · Vocabulary list · 1 exercise sheet · 1 past-paper sheet · Unit test
55–56	**37. Analytical techniques** 分析技术	37.1, 37.2, 37.3, 37.4	Handout · 4 Learn lessons · Slide deck · Vocabulary list · 4 exercise sheets · 4 past-paper sheets · Unit test