Pearson Edexcel · International A-Level · Chemistry Syllabus
Checklist · 大纲自查表

Tick one box per statement: ☐ not yet ☐ nearly ☐ confident. 每条打一个勾：尚未掌握 / 快会了 / 有把握。

1. Structure, Bonding and Introduction to Organic Chemistry

结构、键合与有机化学导论

1.1 Formulae, equations and amount of substance (Topic 1) 公式、方程与物质的量（主题 1）

☐☐☐ Formulae, equations and amount of substance (Topic 1)

1.2 Atomic structure and the periodic table (Topic 2) 原子结构与元素周期表（主题 2）

☐☐☐ Atomic structure and the periodic table (Topic 2)

1.3 Bonding and structure (Topic 3) 键合与结构（主题 3）

☐☐☐ Bonding and structure (Topic 3)

1.4 Introductory organic chemistry and alkanes (Topic 4) 有机化学导论与烷烃（主题 4）

☐☐☐ Introductory organic chemistry and alkanes (Topic 4)

1.5 Alkenes (Topic 5) 烯烃（主题 5）

☐☐☐ Alkenes (Topic 5)

2. Energetics, Group Chemistry, Halogenoalkanes and Alcohols

热化学、族化学、卤代烷和醇

2.1 Energetics (Topic 6) 能量学（主题 6）

☐☐☐ Energetics (Topic 6)

2.2 Intermolecular forces (Topic 7) 分子间作用力（主题 7）

☐☐☐ Intermolecular forces (Topic 7)

2.3 Redox chemistry and Groups 1, 2 and 7 (Topic 8) 氧化还原化学及第 1、2 和 7 族元素（主题 8）

☐☐☐ Redox chemistry and Groups 1, 2 and 7 (Topic 8)

2.4 Introduction to kinetics and equilibria (Topic 9) 动力学与平衡导论（主题 9）

☐☐☐ Introduction to kinetics and equilibria (Topic 9)

2.5 Halogenoalkanes and alcohols (Topic 10) 卤代烷与醇（主题 10）

☐☐☐ Halogenoalkanes and alcohols (Topic 10)

3. Practical Skills in Chemistry I 化学实践技能 I

3.1 Planning and implementing (Unit 3 spec) 规划与实施（单元 3 大纲）

□□□ Planning and implementing (Unit 3 spec)

3.2 Analysis and evaluation (Unit 3 spec) 分析与评价（单元 3 大纲）

□□□ Analysis and evaluation (Unit 3 spec)

4. Rates, Equilibria and Further Organic Chemistry

反应速率、平衡与进一步有机化学

4.1 Kinetics (Topic 11) 动力学（主题 11）

□□□ Kinetics (Topic 11)

4.2 Entropy and energetics (Topic 12) 熵与能量变化（主题 12）

□□□ Entropy and energetics (Topic 12)

4.3 Chemical equilibria (Topic 13) 化学平衡（主题 13）

□□□ Chemical equilibria (Topic 13)

4.4 Acid-base equilibria (Topic 14) 酸碱平衡（主题 14）

□□□ Acid-base equilibria (Topic 14)

4.5 Carbonyls, carboxylic acids and derivatives (Topic 15) 羰基化合物、羧酸及其衍生物（主题 15）

□□□ Carbonyls, carboxylic acids and derivatives (Topic 15)

5. Transition Metals and Organic Nitrogen Chemistry 过渡金属与有机氮化学

5.1 Redox equilibria and electrochemistry (Topic 16) 氧化还原平衡与电化学（主题 16）

□□□ Redox equilibria and electrochemistry (Topic 16)

5.2 Transition metals and their chemistry (Topic 17) 过渡金属及其化学性质（主题 17）

□□□ Transition metals and their chemistry (Topic 17)

5.3 Arenes (Topic 18) 芳香烃（主题 18）

□□□ Arenes (Topic 18)

5.4 Amines, amides and amino acids (Topic 19) 胺、酰胺及氨基酸（主题 19）

□□□ Amines, amides and amino acids (Topic 19)

5.5 Organic synthesis (Topic 20) 有机合成（主题 20）

□□□ Organic synthesis (Topic 20)

6. Practical Skills in Chemistry II 化学实践技能 II

6.1 Planning and implementing at A2 (Unit 6 spec) A2（Unit 6 大纲）中的规划与实施

□□□ Planning and implementing at A2 (Unit 6 spec)

6.2 Analysis, evaluation and uncertainty at A2 (Unit 6 spec) A2（Unit 6 大纲）中的分析、评估与不确定性

□□□ Analysis, evaluation and uncertainty at A2 (Unit 6 spec)