



# OCR 21st Century GCSE Chemistry Paper 1 Revision Checklist

Focused OCR 21st Century Chemistry Paper 1 checklist for students aiming for Grades 8-9.

## Revision Topics

- C1 - Air and Water
- Composition of the atmosphere
- Air pollution
- Combustion
- Potable water
- Water treatment
- Climate change and human impact
- C2 - Chemical Patterns
- Atomic structure
- The periodic table
- Groups and periods
- Reactivity trends
- Predicting chemical properties
- C3 - Chemicals of the Natural Environment
- Acids and alkalis

- pH scale
- Neutralisation
- Making salts
- Carbonates
- Metal ores and extraction ideas
- C7 - Practical Skills
- Planning investigations
- Using apparatus safely
- Recording results
- Identifying variables
- Drawing conclusions from evidence
- C8 - Practical Skills
- Graph skills
- Calculations from results
- Evaluating methods
- Improving reliability and accuracy
- Applying practical knowledge to unfamiliar questions

## **Most Important Topics for Grade 8-9**

- Atomic structure and the periodic table
- Particle model and states of matter
- Acids, alkalis and neutralisation
- Making salts
- Reactivity series
- Balancing chemical equations
- Conservation of mass
- Electrolysis
- Required practical skills

## **Grade 9 Skills**

- Use precise chemistry keywords
- Balance equations accurately
- Explain trends using atomic structure
- Show full working in calculations with units
- Interpret graphs and tables carefully
- Use data to justify conclusions

- Evaluate practical methods
- Suggest realistic improvements to experiments
- Apply knowledge to unfamiliar contexts
- Write clear six-mark answers

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*Prepared for GCSE Sciences*