

Science Revision Hub

Supporting Progress in Science from Year 1 to Year 11

GCSE Exam Board: AQA

Welcome to the Nightingale Community Academy Science Revision Hub.

This page provides revision resources, guidance and structured support to help students build knowledge, confidence and progress in Science at every key stage.

Key Stage 1

Years 1–2

Topics Include:

- Animals Including Humans
- Everyday Materials
- Plants
- Seasonal Changes

Recommended Resources

BBC Bitesize KS1 Science

<https://www.bbc.co.uk/bitesize/subjects/z6svr82>

National Geographic Kids

<https://www.natgeokids.com/uk/>

How to Revise at KS1

- Practise explaining ideas out loud
- Draw and label simple diagrams
- Learn key vocabulary
- Ask and answer “why” questions

Key Stage 2

Years 3–6

Topics Include:

- Forces and Magnets
- Rocks and Soils

- Light and Sound
- Electricity
- States of Matter
- Living Things and Habitats

Recommended Resources

BBC Bitesize KS2 Science

<https://www.bbc.co.uk/bitesize/subjects/z2pfb9q>

Oak National Academy

<https://www.thenational.academy/>

How to Revise at KS2

- Learn and practise definitions
- Write full explanations using key vocabulary
- Draw labelled diagrams
- Interpret simple data tables and graphs

Key Stage 3

Years 7–9

Including Entry Level Pathway

At Key Stage 3, students develop core knowledge in Biology, Chemistry and Physics. Some students may follow an Entry Level pathway to support progression towards GCSE.

Topics Include:

- Cells and Organisation
- Reproduction
- Chemical Reactions
- The Periodic Table
- Forces
- Energy
- Space Physics

Recommended Revision Resources

Seneca Learning (Highly Recommended)

<https://app.senecalearning.com>

Students must create a FREE student account using their school email address.

Once logged in:

- Select KS3 Science
- Students following Entry Level should focus on building strong core knowledge and vocabulary.

Seneca supports:

- Retrieval practice
- Knowledge checks
- Identifying gaps in understanding

BBC Bitesize KS3 Science

<https://www.bbc.co.uk/bitesize/levels/z4kw2hv>

Oak National Academy KS3 Science

How to Revise at KS3

- Create flashcards for key vocabulary
- Practise short explanation questions
- Strengthen understanding of basic calculations
- Regularly revisit previous topics

Key Stage 4 – GCSE Science

Years 10–11

Exam Board: AQA

Course Offered:

- AQA Combined Science: Trilogy

Students are entered for either:

- **Foundation Tier (Grades 1–5)**

- **Higher Tier (Grades 4–9)**

Students will be guided by their teachers regarding the most appropriate tier.

Essential GCSE Revision Resources (AQA Combined Science)

Seneca Learning (Highly Recommended)

<https://app.senecalearning.com>

Students must create a FREE student account using their school email address and select:

- **AQA GCSE Combined Science: Trilogy**

Students should ensure they select the correct tier where applicable (Foundation or Higher).

Seneca provides:

- Topic-by-topic revision
- Auto-marked exam-style questions
- Progress tracking

AQA Specification & Past Papers

Official AQA Website:

<https://www.aqa.org.uk>

Students should:

- Download the AQA Combined Science specification
- Practise past papers regularly
- Use mark schemes to understand how marks are awarded

Additional GCSE Resources

Physics & Maths Tutor

<https://www.physicsandmathstutor.com>

Cognito

<https://www.cognitoedu.org>

FreeScienceLessons (YouTube)

GCSE Revision Expectations

- ✓ Learn required equations (especially for Higher tier)
- ✓ Memorise required practical methods
- ✓ Complete exam questions weekly
- ✓ Practise timed papers
- ✓ Analyse and correct mistakes

Effective Science Revision Strategies (All Key Stages)

Students should:

- Use active recall (self-testing)
- Space revision over time
- Practise exam-style questions
- Use flashcards for definitions
- Review teacher feedback carefully

Avoid:

- Only rereading notes
- Highlighting without testing
- Leaving revision until the last minute

Stretch & Support

Students who would like additional support or challenge can:

- Complete extra Seneca assignments
- Use additional past papers
- Speak to their Science teacher for targeted revision

Need Further Support?

Students should speak to their Science teacher first for personalised advice and requested interventions. Science teachers are available in the Science Lab every Thursday after school for any drop in sessions.

For further information, please contact:

Head of Science

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