ENGLISH CURRICULUM OVERVIEW

Pearson
iLowerSecondary

Pearson Edexcel iLowerSecondary is not just a curriculum, but a complete teaching toolkit.

As well as the English, Mathematics and Science curricula, developed specifically for the international student, a complete suite of teaching support is included as part of the whole-school package. Furthermore, a comprehensive programme of Professional Development support is also available face-to-face, via webinar, and as part of our community forum.

Exemplar schemes of work and mapping enable you to access Pearson's world-renowned teaching resources. In addition fully integrated internal (Progress Tests) and external (Year Nine Achievement Tests) assessments are available, all created through Pearson Edexcel's World Class Qualifications framework.

The iLowerSecondary curriculum is organised into three year groups, each building on the knowledge and skills of the last. Each provides comprehensive learning objectives that ensure clear targets and progression for students. For iLowerSecondary English, the curriculum contains two main strands, with each split into sub-strands. Speaking and Listening skills are woven throughout the objectives to support learning. The curriculum promotes engagement and enjoyment while ensuring students are well placed to achieve highly in later examinations. The strands and sub-strands are:

Reading

- Reading for Meaning
- Responding to Texts
- Text Structure
- Language Use

Writing

- Writing Processes
- Whole Text
- Language Use

The iLowerSecondary English curriculum ensures students engage with a range of text types and learn to communicate effectively in written and spoken English. It provides students with the skills and knowledge they need to access the wider curriculum and gives an excellent foundation for either first or second language International GCSEs from Year 10.

On the following pages are examples of objectives from the iLowerSecondary English curriculum. These cover **Reading: Responding to Texts** for Years 7, 8 and 9.

Year 7

Reading: Responding to Texts

- Identify a writer's or speaker's intention and viewpoint
- Express a personal response to a text through writing, discussion or presentation, supported with some objective statements
- Support ideas with relevant evidence
- Make simple comparisons between two texts
- Express responses to questions in both formal written answers and considerate discussion

Year 8

Reading: Responding to Texts

- Explore a writer's or speaker's intention and viewpoint
- Express a critical response to a text through writing, discussion or presentation, by considering the text's features and their effects
- Select relevant, focused evidence to support ideas
- Make developed comparisons between two texts, including across different genres
- Express responses to prompts in formal factual writing, imaginative work and presentations, and develop discussion techniques

Year 9

Reading: Responding to Texts

- Respond to a writer's or speaker's intention and viewpoint
- Develop a critical response to a text through writing, discussion or presentation, by considering the text's features and their effects
- Select a range of relevant, focused evidence to support ideas
- Make specific comparisons between two texts, including across different genres
- Express responses to prompts with confidence in a range of techniques, including discussion, formal and imaginative writing, formal presentation and debate

Accessing the full programme for iLowerSecondary

Only registered iLowerSecondary centres will be able to access the full programme.
If you are not an iLowerSecondary centre and would like find out more then complete our Expression of Interest form on the Pearson Edexcel website.

MATHEMATICS CURRICULUM OVERVIEW

Pearson
iLowerSecondary

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The iLowerSecondary curriculum is organised into three year groups, each building on the knowledge and skills of the last. Each provides comprehensive learning objectives that ensure clear targets and progression for students. For iLowerSecondary Mathematics, the curriculum contains four main strands, with each split into sub-strands. The curriculum
promotes engagement and enjoyment while ensuring students are well placed to achieve highly in later examinations.
The strands and sub-strands are:

Number

- Integers
- Fractions and Decimals
- Percentages
- Calculation Skills
- Ratio and Proportion
- Standard Form (Year 9)

Algebra

- Expressions and Formulae
- Sequences
- Graphs
- Equations (from Year 8)
- Inequalities (Year 9)

Geometry and Measure

- Measure
- Angles
- Polygons
- Symmetry
- Transformations
- Constructions (Year 9)
- Congruence and Similarity (Year 9)
- Pythagoras' Theorem and Trigonometry (Year 9)

Statistics

- Data
- Charts and Diagrams
- Probability

The curriculum is designed to ensure that key Mathematics skills are properly embedded and that students are secure in their understanding of the concepts
needed to be strong mathematicians. Developed with the needs of second language learners in mind, the iLowerSecondary Mathematics curriculum gives an excellent platform for later learning and ensures students are well-prepared for their International GCSEs learning from Year 10.

On the following pages are examples of objectives from the iLowerSecondary Mathematics curriculum. These cover **Algebra: Expressions and formulae** for Years 7, 8 and 9.

Year 7

Algebra: Expressions and Formulae

- Use letters to represent unknown values
- Write simple expressions using correct algebraic notation and the four operations
- Simplify simple linear algebraic expressions by collecting like terms
- Simplify simple linear algebraic expressions involving multiplication and division
- Expand brackets by multiplying a single positive number term over a bracket
- Substitute positive integers into simple formulae written in words
- Substitute integers into formulae written in letters
- Write simple formulae using letters
- Solve missing number problems and problems involving formulae

Year 8

Algebra: Expressions and Formulae

- Use index notation for algebraic powers
- Simplify simple algebraic expressions involving powers using the index laws
- Expand and simplify expressions involving brackets by multiplying a negative number term, or terms involving letters and numbers, over a bracket
- Factorise expressions
- Substitute values into expressions and formulae involving powers or brackets
- Solve problems involving formulae

Year 9

Algebra: Expressions and Formulae

- Substitute values into expressions and formulae involving powers, roots and brackets
- Write expressions and formulae involving more than one variable
- Substitute values into a formula and find the value of a variable that is not the subject
- Change the subject of a simple formula involving one or two of the four operations
- Expand and factorise expressions involving powers
- Use index notation and index laws for positive and negative integer powers, including 0
- Expand the product of two linear expressions (where both expressions have x coefficient 1)
- Factorise quadratic expressions of the form $x^2 + bx + c$ (where the squared term has the coefficient 1)
- Distinguish between expressions, identities and equations
- Solve problems involving formulae and expressions

Accessing the full programme for iLowerSecondary

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SCIENCE CURRICULUM OVERVIEW

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The iLowerSecondary curriculum is organised into three year groups, each building on the knowledge and skills of the last. Each provides comprehensive learning objectives that ensure clear targets and progression for students. For iLowerSecondary Science, the curriculum contains four main strands, with each split into topic areas. The curriculum promotes engagement and enjoyment while ensuring students are well placed to achieve highly in later examinations. The strands are:

Scientific Enquiry
Biology
Chemistry
Physics

Scientific enquiry is embedded within the other three strands and students are encouraged to take an engaged and investigative approach to their learning. Developed with the needs of second language learners in mind, the iLowerSecondary Science curriculum gives an excellent platform for later learning and ensures students are well-prepared for their International GCSEs learning from Year 10.

On the following pages are examples of objectives from the iLowerSecondary Science curriculum. These cover a range of Biology topics for Years 7, 8 and 9.

Year 7

Biology: Cells and Organisation

- Know the structure of a typical animal cell
- Know the similarities and differences between plant and animal cells
- Understand the basic parts of a simple light microscope and their functions
- Understand the level of cellular detail that can be seen with a simple light microscope
- Know the cell wall, cell membrane, cytoplasm, nucleus, permanent vacuole, mitochondria and chloroplasts in a range of familiar and less familiar animal and plant cells
- Know the functions of the cell wall, cell membrane, cytoplasm, nucleus, permanent vacuole, mitochondria and chloroplasts
- Know the hierarchical organisation of multicellular organisms from cells to tissues to organs to organ systems to organisms
- Know the major organs and organ systems of the human body and describe their functions
- Apply knowledge of human organs and organ systems to other vertebrates

Year 8

Biology: Breathing and Respiration

- Recognise the main components of the respiratory system and their functions
- Explain the role of cartilage in keeping airways open
- Know and describe the mechanism of breathing to move air in and out of the lungs
- Understand the term gas exchange
- Describe the effects of smoking
- Understand the term *aerobic respiration* and correctly use the terms *breathing* and *respiration*

Year 9

Biology: Life Processes

- Know the basic structure of viruses and understand that viruses are obligate parasites causing harm to the cells of living things
- Know how a virus reproduces and use this to explain why viruses may not be classed as living organisms
- Know that plant and animal cells respire to produce ATP to provide energy for cells
- Know how to model respiration using a word equation and a balanced symbol equation

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