

Transferable skills subject interpretation for the Pearson Edexcel International GCSE in Information and Communication Technology (ICT) (9-1)

Transferable skills will help students cope with the different demands of degree study and provide a solid skills base that enables them to adapt and thrive in different environments across educational stages; and ultimately into employment.

A good international education should enable students to start developing transferable skills as early as possible. Developing these transferable skills where they naturally occur as part of the International GCSE curriculum can help build learner confidence and embed the importance of this well-rounded development. This builds the foundations to ensure students are ready for A-level and higher education.

Our approach to enhancing transferable skills in our International GCSEs ensures that it is not only the academic and cognitive skills that are developed, but those broader elements that universities highlight as being essential for success. Skills such as self-directed study, independent research, self-awareness of own strengths and weaknesses and time-management are skills that students cannot learn from a textbook but have to be developed through the teaching and learning experience that can be provided through an international curriculum.

To support the design of our qualifications, the Pearson Research Team selected and evaluated seven global 21st-century skills frameworks. Following on from this process, we identified the National Research Council's (NRC) framework as the most evidence-based and robust skills framework.

In the tables below, we have taken the NRC framework skills and provided an explicit definition of how each skill can be interpreted for this subject. This will enable teachers and learners to understand examples of how they can develop each skill through this International GCSE.

Intrapersonal skills		Interpersonal skills		Cognitive skills	
Intellectual Openness		Teamwork and collaboration		Cognitive Processes and Strategies	
Adaptability	Ability to select and apply knowledge and understanding of ICT processes, which is not prompted or provided to ICT problems.	Communication	Communicating ideas and techniques using ICT tools, verbally or in documents, to peers and teachers and answer questions from others.	Critical thinking	Using many different pieces of information from ICT and synthesise this information to make judgements.
Personal and social responsibility	Appreciate ethical issues in ICT.	Collaboration	Carrying out a peer review to provide supportive feedback to another.	Problem solving	Apply the principles and concepts of ICT in different contexts.
Continuous Learning	Planning and reflecting on own learning-setting goals and meeting them regularly.	Teamwork	Working with other students in an ICT based problem-solving exercise.	Analysis	Analyse and interpret data and draw conclusions.
Intellectual interest and curiosity	Identifying a problem under own initiative, planning a solution and carrying this out.	Co-operation	Sharing own resources and own learning techniques with other students.	Reasoning/argumentation	Evaluate information related to ICT making judgements on the basis of information given.
Work ethic/conscientiousness		Interpersonal skills	Using verbal and non-verbal communication skills in discussions about ICT issues.	Interpretation	Developing the ability to correctly explain the meaning of a question or idea in the fields of global politics, economic development and new technologies, and to provide fully relevant answers to any questions posed.
Initiative	Using ICT knowledge and skills, without guided learning, to further own understanding.	Leadership		Decision Making	Evaluate data, drawing conclusions, with evidence from secondary sources. Suggest possible improvements and further work.
Self-direction	Planning and carrying out ICT based problem solving under own direction.	Leadership	Leading others in a group activity to effectively solve a problem based on Information and Communication Technologies.	Adaptive learning	By its very nature, ICT is a vehicle for adaptive learning. Using skills, knowledge and understanding acquired to respond to new and innovative technologies and methods of communication.

Responsibility	Taking responsibility for any errors or omissions in own work and creating a plan to improve.
Perseverance	Actively seeking new ways to continue and improve own learning despite setbacks.
Productivity	Develop a fluency in technical language so sophisticated answers of depth are produced in extended answers to ICT issues.
Self-regulation (metacognition, forethought, reflection)	Developing and refining a strategy over time for applications of ICT, to different contexts reflecting on the success or otherwise of the strategy.
Ethics	Producing output with an ICT moral purpose for which one is accountable.
Integrity	Taking ownership for own work and willingly responds to questions and challenges.
Positive Core Self Evaluation	
Self-monitoring/self-evaluation/self-reinforcement	Planning and reviewing own work as a matter of habit.

Responsibility	Taking responsibility for the outcomes of a team exercise even if one is not solely responsible for the output.
Assertive communication	Chairing a debate, allowing representations and directing the conversation to a conclusion.
Self-presentation	Presenting a problem or idea to an audience to seek solutions using Information and Communication Technologies.

Executive Function	Using skills practised in using ICT tools, students will develop effectiveness in applying those skills both within the confines of the subject specification and within the wider curriculum.
Creativity	
Creativity	Apply existing knowledge of ICT to situations set in an unfamiliar context.
Innovation	Using a novel strategy to apply existing knowledge of ICT concepts in unaccustomed situations.