Computing / ICT Skills Ladder

Pathfinders 1 / Pathfinders 2

DC1 Use strategies to stay safe when using ICT and the internet

DC2 Use technology safely and respectfully, keeping personal information private

DC3 Identify when and where to go for help and support when they have concerns about material on the internet

CS1 Recognise and understand that algorithms are implemented as programs on digital devices, executing by following precise and unambiguous instructions

CS2 Create and debug simple programs

CS3 Use logical reasoning to predict the behaviour of simple programs

D1 Collect, sort, record and represent information to inform investigations and designs

D2 Draw conclusions from data collected

IT1 Explore digital resources by using hyperlinks and simple menus

IT2 Use the internet and other digital sources to find out about significant issues, events and people and explore real and imaginary locations

IT3 Identify common uses of information technology beyond school

Mm1 Use technology purposefully to create, capture, organise, store, manipulate, retrieve and present digital content

Mm2 Try alternatives using a range of tools and techniques to alter text, images and sounds

Mm3 Combine written text with graphics, tables., sounds and images and present work appropriately

Mm4 Use ICT to communicate with unknown audiences

Mm5 Plan, discuss and review work developed using ICT in order to improve it

Science and Technology

Computing / ICT Skills Ladder

Adventurers 1 / Adventurers 2

DC4 Verify the accuracy and reliability of the information found, distinguishing between fact and opinion

DC5 Use ICT to exchange ideas and collaborate with others remotely

DC6 Use ICT safely and appreciate the need to keep electronic data secure

CS4 Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems

CS5 Solve problems by decomposing them into smaller parts

CS6 Use sequence, selection, and repetition in programs

CS7 Work with variable and various forms of input and output

CS8 Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs

D3 Identify how ICT can be used to collect and structure information, so that it can be searched and analysed

D4 Capture, record and analyse data using sensors in order to support observations and investigations

IT4 Save and use stored information to follow lines of enquiry

IT5 Identify the opportunities computer networks offer for communication and collaboration

IT6 Use key words to search for and select appropriate information from the internet and other digital sources

IT7 Understand computer networks including the Internet, recognizing how they can provide multiple services, such as the world-wide web

Mm6 Explore alternative approaches to develop and refine work

Mm7 Use a variety of ICT tools to create, refine and present work in a variety of ways

Mm8 Use features of layout, presentation and organisation in print and on screen

Mm9 Use editing skills for visual effects

Science and Technology

Computing / ICT Skills Ladder

Navigators 1 / Navigators 2

DC7 Verify the accuracy and reliability of the information found online, detect bias and distinguish evidence from opinion

DC8 Identify a range of ways to report concerns and inappropriate behaviour

DC9 Use ICT safely, respectfully and responsibly, managing risk and showing awareness of other users

CS4 Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems

CS5 Solve problems by decomposing them into smaller parts

CS6 Use sequence, selection, and repetition in programs

CS7 Work with variable and various forms of input and output

CS8 Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs

D5 Use ICT to explore and develop simple models by changing variable and simple formulae

D6 Answer questions by using ICT to identify, collect, store, analyse and present information

D7 Represent data from analysis in appropriate ways, including the use of graphs

IT7 Understand computer networks including the Internet, recognizing how they can provide multiple services, such as the world-wide web

IT8 Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content

Mm10 Analyse, describe and discuss the effectiveness of the work with ICT

Mm11 Use a variety of ICT tools to create, develop and refine presentations and performances, integrating effect to enhance outcomes

Mm12 Select, use and combine a variety of software (including internet services) on a range of digital devices to accomplish given goals, including collecting, analysing, evaluating and presenting data and information

Mm13 Organise and adjust communication according to the needs of the audience and the technology, including taking account of the quality and content of the communication

Mm14 Use a variety of ICT tools to create, refine and present work in a variety of digital and printed formats using appropriate forms and conventions.

Science and Technology