	Computer Science CAT Descriptor	Computer Science CVC Interpretation
Level 1	Recognise elements of algorithms/systems/applications	<ol> <li>When developing a product, system or program, can, with help, recognise and plan for a few needs of the end user.</li> <li>Can, with help, implement solutions that meet a few end user needs.</li> <li>Can construct/edit/test simple linear algorithms.</li> <li>With help can combine materials provided to complete a basic product, system or algorithm.</li> <li>Can recognise/talk about one or two basic features to make a product easy to use and/or help reduce errors.</li> <li>Can identify one or two good and bad features of finished product.</li> <li>Understands a computer system is made from parts and can identify some of these.</li> <li>Understands how to use a small selection of ICT tools safely and respectfully.</li> </ol>
Level 2	Follow elements of algorithms/systems/applications	<ol> <li>When developing a product, system or program, can, with help, recognise and plan for a few needs of the end user.</li> <li>Can, with help, implement solutions that meet a few end user needs.</li> <li>Can construct/edit/test simple linear algorithms or parts of more complex algorithms.</li> <li>With help can select from materials provided to complete a basic product, system or algorithm.</li> <li>Can recognise/talk about a range of basic features to make a product easy to use and/or help reduce errors.</li> <li>Can identify some good and bad features of finished product.</li> <li>Understands the difference between hardware and software and can give some examples.</li> <li>Understands how to use a small selection of ICT tools safely and respectfully.</li> </ol>
Level 3	Design/Implement elements of algorithms/systems/applications Use provided digital assets for a solution	<ol> <li>When developing a product, system or program, can identify and plan for a few needs of the end user.</li> <li>Can implement a solution that meets a few needs of the end user.</li> <li>Can construct/edit/test/debug simple linear algorithms or parts of more complex algorithms.</li> <li>Can select from materials provided to complete a basic product, system or algorithm.</li> <li>Can identify some basic features to make a product easy to use and/or help reduce errors.</li> <li>Can identify some good and bad features and suggest improvements to finished product.</li> <li>Understands the difference between hardware and software and can give a range of examples.</li> <li>Understands how to use a selection of ICT tools safely and respectfully.</li> </ol>

	Computer Science CAT Descriptor	Computer Science CVC Interpretation
Level 4	Create/edit simple algorithms/systems/applications or digital assets	<ol> <li>When developing a product, system or program, can plan for and describe a range of end user needs.</li> <li>Can implement a solution that meets some needs of the end user.</li> <li>Can construct/edit/test/debug simple non-linear algorithms or parts of more complex algorithms in a programming language.</li> <li>Can source and edit suitable materials to complete a product, system or algorithm.</li> <li>Can include some basic features to make a product easy to use and/or help reduce errors.</li> <li>Can describe some good and bad features of finished product and make improvements.</li> <li>Understands that a computer system is made up of hardware &amp; software and understands the different hardware categories.</li> <li>Understands how to use ICT tools safely and respectfully.</li> </ol>
Level 5	Complete a simple program/system/application (several algorithms/parts combined)	<ol> <li>When developing a product, system or program, can plan for and describe a range of end user needs.</li> <li>Can implement a solution that meets a range of user needs.</li> <li>Can construct/test/debug simple non-linear algorithms and parts of more complex algorithms in at least one programming language.</li> <li>Can source and edit suitable materials to complete a product, system or algorithm.</li> <li>Can include some high level features to make a product easy to use and help reduce errors.</li> <li>Can describe a range of good and bad features of finished product and make improvements.</li> <li>Understands that a computer system is made up of hardware &amp; software, understands how they work together.</li> <li>Understands how to use ICT tools safely and respectfully.</li> </ol>
Level 6	Complete a complex program/system/application	<ol> <li>When planning the development of a product, system or program, is able to describe a wide range of end user needs.</li> <li>Is able to implement a complete solution that meets most of these needs.</li> <li>Can construct/test/debug complex algorithms using selection and iteration in two different programming environments to form complete solutions to problems.</li> <li>Can source, evaluate and edit materials required to complete a quality product, system or algorithm.</li> <li>Can include some high level features to make a product easy to use and help reduce errors.</li> <li>Can evaluate the success of the finished product using feedback to make improvements.</li> <li>Understands how a typical computer system works and can explain a few of the composite parts.</li> <li>Understands how to use ICT tools safely respectfully and efficiently.</li> </ol>

	Computer Science CAT Descriptor	Computer Science CVC Interpretation
Level 7	Model a complex real world system (is able to follow a brief?) Combine multiple applications to create a solution.	<ol> <li>When planning the development of a product, system or program, is able to explain most end user needs, including one accessibility feature.</li> <li>Is able to implement a complete solution that meets most of these needs.</li> <li>Can construct/test/debug and combine complex algorithms and subroutines in two different programming environments to form complete solutions to problems.</li> <li>Can create, source, evaluate and edit materials required to complete a quality product, system or algorithm.</li> <li>Can include a few advanced features to make a product easy to use and help reduce errors.</li> <li>Can evaluate the success of the finished product using feedback to make improvements, explaining decisions taken.</li> <li>Understands how a typical computer system works and can explain a range of the composite parts.</li> <li>Understands how to use a range of ICT tools safely respectfully and efficiently.</li> </ol>
Level 8	Develop efficient modular systems to solve a complex task	<ol> <li>When planning the development of a product, system or program, is able to explain the end user needs, including some accessibility features.</li> <li>Is able to implement a complete solution that meets most of these needs.</li> <li>Can construct/test/debug and combine complex algorithms and subroutines with parameters in two different programming environments to form complete solutions to problems.</li> <li>Can create, source, evaluate and edit materials required to complete a quality product, system or algorithm.</li> <li>Can include a range of advanced features to make a product easy to use, help reduce errors and improve efficiency.</li> <li>Can evaluate the success of the finished product using feedback from more than one person to make improvements and explain decisions taken.</li> <li>Understands how a typical computer system works and can explain a wide range of composite parts.</li> <li>Understands and demonstrates how to use a wide range of ICT tools safely respectfully and efficiently.</li> </ol>

	Computer Science CAT Descriptor	Computer Science CVC Interpretation
Level 9	Develop complete quality solutions using advanced techniques.	<ol> <li>When planning the development of a product, system or program, is able to analyse the end user needs, including accessibility features.</li> <li>Is able to implement a complete solution that fully meets these needs.</li> <li>Can construct/test/debug and combine complex algorithms and subroutines in at least two different programming environments to form complete solutions to problems.</li> <li>Can create, source, evaluate and edit materials required to complete a quality product, system or algorithm.</li> <li>Can include a wide range of advanced features to make a product easy to use, significantly reduce errors and improve efficiency.</li> <li>Analyses success of product making improvements where necessary.</li> <li>Understands how a typical computer system works and can explain the composite parts.</li> <li>Understands and consistently demonstrates how to use a wide range of ICT tools safely, respectfully and efficiently.</li> </ol>
Level 10	Develop complete quality solutions using advanced techniques fully independently	<ol> <li>When planning the development of a product, system or program, is able to work fully independently to analyse the end user needs, including accessibility features.</li> <li>Is able to implement a complete solution that fully meets these needs.</li> <li>Can construct/test/debug and combine complex algorithms and subroutines in at least two different programming environments to form complete solutions to problems.</li> <li>Can create, source, evaluate and edit materials required to complete a quality product, system or algorithm.</li> <li>Can include a wide range of advanced features to make a product easy to use, significantly reduce errors and improve efficiency.</li> <li>Independently analyses success of product, making improvements where necessary.</li> <li>Understands how a typical computer system works and can explain the composite parts.</li> <li>Understands and consistently demonstrates how to use a wide range of ICT tools safely, respectfully and efficiently.</li> </ol>