

Computer Science

| Outcomes | Internet Use | Webpage Design | Programming | Data in Computers | Computer Hardware |
|------------------|---|---|---|---|--|
| Basic | Can use the internet to search for information. Recognises that the internet contains dangers. | When helped can create a basic HTML webpage using text based software. Will correct errors when assisted | Can generate simple visual programs by reproducing previous examples. | Will understand that computers use binary to store data. Will be able to use binary representation with support. | Will be able to recall some of the components of a computer system. |
| Adequate | Can identify appropriate sources of information from the internet. Understands the dangers of inappropriate use of the internet including social media. | Can set up an HTML page when given a framework to follow. Can use basic tags independently. Can spot and correct some errors independently. | Can generate visual programs independently. Will be able to make use of iteration with support. | Will understand why computers use binary. Will be able to use binary representation independently. | Will be able to name the components of a computer system. Will understand the role of some of the components of a computer system. |
| Secure | Can evaluate sources of information. Understands how to protect against revealing personal information when using the internet | Can set up a page independently. Can use a tags to perform most formatting tasks Understands the importance of file extensions in use of the image tag Can spot errors most of the time but occasionally needs support | Can generate complex visual programs independently. Will make use of iteration independently. | Will be able to use binary representation independently Will have a concept of the use of hexadecimal to represent colours. Will understand that data, including images and sound can be compressed. | Will understand the role of the components of a computer system. Will know the different components combine to provide a working computer. |
| Advanced | Can evaluate sources of information and reference sources appropriately. Understands how to protect against revealing personal information when using the internet. Knows about different types of malware. | Can set up a page independently. Is able to make use of a wide variety of tags. Is able to research and apply additional tags as required. Has a working knowledge of hexadecimal and can create any colour. | Can generate complex visual programs independently. Will make use of iteration independently. Will create functions with support and use modularisation within code. | Will be able to use binary representation independently. Can use hexadecimal representation with support. | Will understand the role of the components of a computer system. Will know the different components combine to provide a working computer. Will be able to identify how changing certain components could affect computer performance. |
| Excelling | Can evaluate sources of information and reference sources appropriately. Understands how to protect against revealing personal information when using the internet. Knows about how to detect and protect against different types of malware. | Can set up a page independently using an appropriate range of tags. Is able to make use of tables and other layout approaches. Can use aspect ratio approaches to maintain appropriate layout on different size screens. | Can generate complex visual programs independently. Will make use of iteration, involving functions and modularisation independently. | Will be able to use binary or hexadecimal representation independently. Will understand how date including images and sound is compressed. Will understand the use of ASCII to represent text within a computer | Will understand the role of the components of a computer system and how they combine and interrelate. Will be able to select and recommend appropriate hardware for given scenarios. |