



## CCSC Careers In Our Curriculum

## Computer Science/iMedia

	Curriculum Links	Employer Encounters/Ideas	Career Opportunities
<b>Year 7</b>	<ul style="list-style-type: none"> <li>Digital Literacy skills to navigate a computer and use general applications such as Word/PowerPoint/Excel (loads of jobs?)</li> <li>How the Internet Works: Network Admin</li> <li>Basic Programming: System Developer</li> <li>HTML: Web Design</li> </ul>	<ul style="list-style-type: none"> <li>Newcastle College: Lego Stem league and resources</li> <li>STEM ambassador program</li> </ul>	<ul style="list-style-type: none"> <li><a href="#">3D printing technician</a></li> <li><a href="#">App developer</a></li> <li><a href="#">Archivist</a></li> <li><a href="#">Business analyst</a></li> <li><a href="#">Cartographer</a></li> <li><a href="#">Computer games developer</a></li> <li><a href="#">Cyber intelligence officer</a></li> <li><a href="#">Digital marketer</a></li> <li><a href="#">Digital product owner</a></li> <li><a href="#">Forensic computer analyst</a></li> <li><a href="#">Geospatial technician</a></li> <li><a href="#">Head of IT (IT director)</a></li> <li><a href="#">IT project manager</a></li> <li><a href="#">IT security co-ordinator</a></li> <li><a href="#">Librarian</a></li> <li><a href="#">Media researcher</a></li> <li><a href="#">Network manager</a></li> <li><a href="#">Robotics engineer</a></li> <li><a href="#">Security Service personnel</a></li> <li><a href="#">Social media manager</a></li> <li><a href="#">Software developer</a></li> <li><a href="#">Systems analyst</a></li> <li><a href="#">Technical architect</a></li> <li><a href="#">User researcher</a></li> <li><a href="#">Web developer</a></li> </ul>
<b>Year 8</b>	<ul style="list-style-type: none"> <li>eSafety</li> <li>How Computers Work: Tech Support</li> <li>Artificial Intelligence.: Literacy skills for abstract concepts and debate</li> <li>Ethics of Computing: Balanced opinions and computing legislation</li> </ul>	<ul style="list-style-type: none"> <li>Newcastle College: Lego Stem league and resources</li> <li>STEM ambassador program</li> </ul>	
<b>Key Stage 4</b>	<ul style="list-style-type: none"> <li>Intermediate Programming in Python: Numerous system development jobs, independent working skills</li> <li>Binary/Hexadecimal: Numeracy skills</li> <li>Living in a Digital World: Literacy and legislation in society</li> <li>Networks and Security: Network jobs</li> <li>Algorithms: transferable problem-solving skills</li> <li>Advanced programming: independence, teamwork, system developer jobs</li> <li>Network protocols and topologies: network admin jobs</li> <li>System security: Security jobs (eg: cryptography)</li> <li>Independent 20-hour project: deadlines, report writing, programming, planning, evidencing</li> <li>Robust Programming: Software testing jobs</li> <li>Logic Gates: electrical engineering</li> <li>Ethical, legal and cultural issues: PSHCE knowledge and digital literacy skills</li> </ul>	<ul style="list-style-type: none"> <li>Past pupils: 3<sup>rd</sup> Year Keele Computer Science student explaining career pathways beyond GCSEs.</li> <li>Staffordshire University: Computing, Gaming, AI and Robotics</li> <li>Keele Univesity: Computing and iMedia pathways</li> <li>Newcastle College: Lego Stem league and resources</li> <li>Graham Stow – software engineer</li> </ul>	