

## Year 7: Careers

Topic	Career Link
<b>7.1 Digital Literacy</b> Using Google Workspace, staying safe online, and spotting fake news.	<b><a href="#">Social Media Manager</a></b> : Builds and protects a brand's online community.
	<b><a href="#">Cyber Intelligence Officer</a></b> : Gather information about where threats to information technology (IT) systems come from and how they work.
	<b><a href="#">Broadcast Journalist</a></b> : Researches facts and writes news scripts in Google Docs.
	<b><a href="#">Events Manager</a></b> : Uses digital calendars and shared drives to plan festivals.
<b>7.2 Programming</b> Writing code for the Micro:bit to show text, images, and use sensors.	<b><a href="#">Software Developer</a></b> : Builds the apps and computer programs we use daily.
	<b><a href="#">Robotics Engineer</a></b> : Programs machines to move and react to the real world.
	<b><a href="#">App Developer</a></b> : Designs and codes custom features for mobile phones.
	<b><a href="#">Lighting Technician</a></b> : Programs light sequences for theatre and concerts.
<b>7.3 Spreadsheets</b> Using formulas and data to create professional graphs and charts.	<b><a href="#">Data Analyst</a></b> : Solves problems by finding patterns in big sets of data.
	<b><a href="#">Management Accountant</a></b> : Uses formulas to track money and business costs.
	<b><a href="#">Meteorologist</a></b> : Uses data and charts to track climate and predict weather.
	<b><a href="#">Market Research Analyst</a></b> : Uses graphs to show what people want to buy.
<b>7.4 3D Modelling</b> Using SketchUp to design and build structures in a 3D world.	<b><a href="#">Architect</a></b> : Designs the look, layout, and safety of new buildings.
	<b><a href="#">Interior Designer</a></b> : Plans the layout and style of the inside of 3D spaces.
	<b><a href="#">Product Designer</a></b> : Models new items like trainers and gadgets in 3D.
	<b><a href="#">Civil Engineer</a></b> : Designs 3D models for big projects like bridges and railways.

## Year 8: Careers

Topic	Career Link
<b>8.1 Cyber Security</b> Protecting data, spotting phishing, and understanding hacking & bots.	<a href="#">IT Security Co-ordinator</a> : Legally "hacks" companies to find and fix security holes.
	<a href="#">Cyber Intelligence Officer</a> : Gather information about where threats to information technology (IT) systems come from and how they work.
	<a href="#">Forensic Computer Analyst</a> : Recovers hidden data as evidence to help solve crimes.
	<a href="#">Intelligence Analyst</a> : Monitors cyber threats to protect national security.
<b>8.2 Web Design</b> Coding the structure of the web with tags, images, and hyperlinks.	<a href="#">Web Developer</a> : Builds and maintains professional websites using code.
	<a href="#">UX Designer</a> : Ensures websites are easy to navigate and look great.
	<a href="#">Digital Marketer</a> : Uses HTML to design eye-catching online ad campaigns.
	<a href="#">SEO Specialist</a> : Codes sites so they appear at the top of Google searches.
<b>8.3 Photo Editing</b> Using masks, "magic cuts," and design rules to edit media in Photopea.	<a href="#">Graphic Designer</a> : Creates logos, posters, and artwork for brands.
	<a href="#">Advertising Art Director</a> : Decides the "look" of major ads on TV and social media.
	<a href="#">Photographer</a> : Uses advanced editing and masks to perfect their images.
	<a href="#">Illustrator</a> : Draws digital artwork for books, clothes, and video games.
<b>8.4 Game Design</b> Using Construct to build game logic, mechanics, and interactive levels.	<a href="#">Computer Games Developer</a> : Writes the logic and "brains" that make a game work.
	<a href="#">Games Tester</a> : Plays games to find and report bugs in the logic.
	<a href="#">VFX Artist</a> : Creates digital special effects like explosions and magic.
	<a href="#">Software Engineer</a> : Uses game logic to build complex, helpful software.

## Year 9: Careers

Topic	Career Link
<b>9.1 Binary Data</b> Understanding how computers use bits, bytes, hex, and logic gates to "think" and store images.	<b><a href="#">IT support technician</a></b> : Designs circuits and motherboards using logic gates and binary.
	<b><a href="#">Network Engineer</a></b> : Manages how data units (packets) travel across the internet using IP addresses.
	<b><a href="#">Database Administrator</a></b> : Manages massive amounts of data and ensures it is stored efficiently in bits and bytes.
	<b><a href="#">Electronics Engineer</a></b> : Design and develop systems for industry, from mobile communications to manufacturing and aerospace.
<b>9.2 Programming</b> Using text-based code for music (Ear Sketch), graphics (Turtle), and logical quiz games.	<b><a href="#">Software Developer</a></b> : Writes professional code in languages like Python to build modern software.
	<b><a href="#">Data Scientist</a></b> : Uses Python code and maths to find answers in huge amounts of information.
	<b><a href="#">Systems Analyst</a></b> : Investigates how code and software can be used to solve business problems.
	<b><a href="#">Machine Learning Engineer</a></b> : Uses advanced Python logic to help computers learn and make their own decisions.
<b>9.3 AI &amp; Ethics</b> Exploring machine learning, how to train AI models, and the "rules" for using AI safely.	<b><a href="#">AI Engineer</a></b> : Builds and trains the "brains" of AI systems to solve complex tasks.
	<b><a href="#">Cyber Intelligence Officer</a></b> : Uses AI tools to track down threats and stop hackers before they attack.
	<b><a href="#">IT Security Coordinator</a></b> : Manages the ethics and safety of how a company uses technology and data.
	<b><a href="#">Business Analyst</a></b> : Decides how AI can be trained to help a company work faster and smarter.
<b>9.3.4 Escape Room</b> Using Google Forms "Response Validation" and "Go to section based on answer" to create logic puzzles.	<b><a href="#">User Experience (UX) Designer</a></b> : Designs how users move through apps and websites so they don't get stuck.
	<b><a href="#">Systems Analyst</a></b> : Tests "if/then" logic to make sure business systems work without errors.
	<b><a href="#">Cyber Intelligence Officer</a></b> : Gather information about where threats to information technology (IT) systems come from and how they work.
	<b><a href="#">Market Researcher</a></b> : Builds complex smart-surveys that change based on what the person clicks.

## GCSE: Careers

Topic	Career Link
<b>Systems Architecture &amp; Software</b> (1.1 CPU, 1.2 Memory/Storage, 1.5 OS) Learning how the CPU, RAM, and Operating Systems manage hardware and data.	<b>Computer Hardware Engineer:</b> Designs CPUs and circuit boards based on the Von Neumann architecture.
	<b>IT Project Manager:</b> Plan and organise the work of a project team to deliver digital products and services on time and on budget.
	<b>Systems Analyst:</b> Investigates how hardware and software can be improved to make a business work better.
	<b>IT Support Technician:</b> Fixes hardware issues and manages utility software to keep systems healthy.
<b>Networks &amp; Security</b> (1.3 Networks, 1.4 Network Security) Studying LANs, WANs, protocols (TCP/IP), and defending against threats like SQL injection.	<b>Network Engineer:</b> Builds the physical and virtual networks that connect computers across the world.
	<b>Cyber Intelligence Officer:</b> Monitors networks for suspicious activity and defends against large-scale hacking.
	<b>Penetration Tester:</b> Acts as an "Ethical Hacker" to test a company's security and find gaps before criminals do.
	<b>Security Architect:</b> Designs complex, high-security computer systems for banks and governments.
<b>Impacts of Technology</b> (1.6 Ethical, Legal, Cultural & Environmental) Analysing the laws (Data Protection Act) and the environmental costs of digital tech.	<b>Data Protection Officer:</b> Ensures organisations handle personal data legally and ethically.
	<b>Forensic Computer Analyst:</b> Recovers data from devices to provide legal evidence in police investigations.
	<b>Business Analyst:</b> Advises companies on how to use technology while following legal and social rules.
	<b>Environmental Consultant:</b> Helps tech companies reduce their carbon footprint and manage e-waste responsibly.
<b>Algorithms, Logic &amp; Programming</b> (2.1-2.5 Computational Thinking, Python, Logic) Designing algorithms, writing robust code, and using Boolean logic to solve problems.	<b>Software Developer:</b> Uses logic and programming languages (like Python) to create apps and software.
	<b>Computer Games Developer:</b> Uses algorithms and code to create game mechanics and AI characters.
	<b>Data Scientist:</b> Writes complex code and logic to find patterns in massive amounts of information.
	<b>AI Engineer:</b> Uses advanced Python logic to help computers learn and make their own decisions.