



THREAD: Safe Working

AOLE: Science & Technology

Progression Step 1

Knowledge and Skills	Vocabulary	Experiences and Characteristics
Explain how to keep myself safe when using a device, with support. E.g Online stranger danger	Safe Dangerous Password Tools Materials Risk	Essential Explore logging on to a device or website
Begin to be aware not to share my personal information		Use age-appropriate tools safely
Use and store my password with some support for the websites I use		Outdoor learning
Use tools safely that are selected for me		Enrichment Coding club



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Progression Step 2		
Knowledge and Skills	Vocabulary	Experiences and Characteristics
<p>Digital</p> <p>Use and store my password correctly for the websites I use with increasing independence</p> <p>Begin to explain the importance of securing the technology e.g. personal data.</p> <p>Begin to explain how to secure technology e.g Strong passwords</p> <p>Begin to show an understanding of the difference between personal and private information and when to share it safely</p>	Safety Secure Technology Password Data Misuse Identity Theft Cookies Tools Materials Equipment Apparatus Hazard Risk Hygiene	<p>Essential</p> Identify the possible risks, hazards and control measures <p>Have the opportunity to handle a range of tools and equipment safely</p> <p>Outdoor Learning</p> <p>Enrichment</p> To visually demonstrate how personal data travels <p>Using an online website to check password strength e.g. https://www.security.org/how-secure-is-my-password/</p> <p>Coding club</p>
<p>Physical</p> <p>Select and safely use a wider of appropriate tools, materials and equipment to construct purposeful outcomes.</p> <p>Increasingly work safely and independently whilst identifying the potential risks and hazards. E.g. tools, equipment, chemicals</p>		



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Progression Step 3		
Knowledge and Skills	Vocabulary	Experiences and Characteristics
<p>Digital</p> <p>Explain the importance of securing the technology e.g. personal data.</p> <p>Explain how to secure technology e.g Strong passwords</p> <p>Recognise consequences of not securing technology in the home, school and workplace. E.g. Fraud, misuse</p> <p>Realise that data can be collected about myself when online and the benefits and risks of this e.g. cookies</p> <p>Recognise the how to protect myself and the consequences of sharing personal data online e.g. identity theft.</p> <p>Explain how my data is used by various services e.g. comparing giving data to the doctors compared to an online marketing company.</p> <p>Physical</p> <p>Select and safely use wider range of appropriate tools, materials and equipment to construct purposeful outcomes.</p> <p>Work safely and independently whilst identify the potential risks and hazards. E.g. tools, equipment, chemicals</p>	Safety Secure Technology Password Data Misuse Identity Theft Fraud Cookies Cyber Security Tools Materials Equipment Apparatus Hazard Risk Chemicals Hygiene Safety flame Heating flame Bunsen Burner Linisher Pillar Drill	<p>Essential</p> <p>Identify the possible risks, hazards and control measures</p> <p>Have the opportunity to handle a range of tools and equipment safely</p> <p>Enrichment</p> <p>To visually demonstrate how personal data travels</p> <p>Using an online website to check password strength e.g. https://www.security.org/how-secure-is-my-password/</p> <p>Outdoor Learning</p> <p>Internet safety day</p>



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Progression Step 4

Knowledge and Skills	Vocabulary	Experiences and Characteristics
<p>Digital</p> <p>Explain the techniques used to store and transfer data safely e.g. encryption</p> <p>Identify vulnerabilities of data. E.g. cyber security, hacking, Phishing, Trojan etc.</p>	Encryption Phishing Hacking Vulnerability Trojan Cyber attack Corrosive Harmful Irritant Flammable Acidic Alkaline Exothermic Brazing Hearth	<p>Essential</p> <p>Science practicals e.g. Exothermic investigation, burning fuels investigation</p> <p>Workshop induction e.g. Safe use of tools and equipment</p> <p>Enrichment</p> <p>Sci-tech club Technocamps Encryption / cyber safety day Internet Safety Day</p>
<p>Physical</p> <p>Select and safely use specialist tools and techniques in order to develop and construct my outcomes and experiments.</p> <p>Select and safely use scientific apparatus in order to develop and carry out practical work.</p>		