



**THREAD:** Safe Working

**AOLE: Science & Technology**

Progression Step 1

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



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Progression Step 2		
Knowledge and Skills	Vocabulary	Experiences and Characteristics
<p><b>Digital</b></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> <p><b>Physical</b></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>	<p>Safety</p> <p>Secure</p> <p>Technology</p> <p>Password</p> <p>Data</p> <p>Misuse</p> <p>Identity Theft</p> <p>Cookies</p> <p>Tools</p> <p>Materials</p> <p>Equipment</p> <p>Apparatus</p> <p>Hazard</p> <p>Risk</p> <p>Hygiene</p>	<p><b>Essential</b></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>Outdoor Learning</p> <p><b>Enrichment</b></p> <p>To visually demonstrate how personal data travels</p> <p>Using an online website to check password strength e.g. <a href="https://www.security.org/how-secure-is-my-password/">https://www.security.org/how-secure-is-my-password/</a></p> <p>Coding club</p>



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Progression Step 3		
Knowledge and Skills	Vocabulary	Experiences and Characteristics
<p><b><u>Digital</u></b></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><b><u>Physical</u></b></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>	<p>Safety</p> <p>Secure</p> <p>Technology</p> <p>Password</p> <p>Data</p> <p>Misuse</p> <p>Identity Theft</p> <p>Fraud</p> <p>Cookies</p> <p>Cyber Security</p> <p>Tools</p> <p>Materials</p> <p>Equipment</p> <p>Apparatus</p> <p>Hazard</p> <p>Risk</p> <p>Chemicals</p> <p>Hygiene</p> <p>Safety flame</p> <p>Heating flame</p> <p>Bunsen Burner</p> <p>Linisher</p> <p>Pillar Drill</p>	<p><b>Essential</b></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><b>Enrichment</b></p> <p>To visually demonstrate how personal data travels</p> <p>Using an online website to check password strength e.g. <a href="https://www.security.org/how-secure-is-my-password/">https://www.security.org/how-secure-is-my-password/</a></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><b><u>Digital</u></b></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> <p><b><u>Physical</u></b></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>	<p>Encryption</p> <p>Phishing</p> <p>Hacking</p> <p>Vulnerability</p> <p>Trojan</p> <p>Cyber attack</p> <p>Corrosive</p> <p>Harmful</p> <p>Irritant</p> <p>Flammable</p> <p>Acidic</p> <p>Alkaline</p> <p>Exothermic</p> <p>Brazing Hearth</p>	<p><b><u>Essential</u></b></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><b><u>Enrichment</u></b></p> <p>Sci-tech club</p> <p>Technocamps Encryption / cyber safety day</p> <p>Internet Safety Day</p>