

# Highgate Primary

## Year 5 Computing Curriculum

Understanding Technology/Digital Literacy	Programming	Digital Citizenship and e-safety
<p>Pupils know that there is a difference between the Internet and the World Wide Web and understand that the web is just one of the services offered by the Internet (as well as, e.g. email and VoIP services such as Skype).</p> <p>They appreciate how search results are ranked, including an understanding of the use of different algorithms to prioritise results. Pupils understand that the highest-ranking search results may not always be the most relevant. They appraise search results based on their relevance and trustworthiness, and can explain what is meant by 'fake news'</p> <p>Pupils are confident, capable and creative users of technology.</p> <p>Within both specific computing lessons and cross curricular contexts, pupils are able to:</p> <ul style="list-style-type: none"> <li>• create and effectively follow lines of enquiry to support their learning, and are discerning in evaluating digital content they encounter</li> <li>• identify, collect and analyse different types of data (e.g. numerical, words, images, video etc.) which they manipulate and re-present as information for a variety of audiences and purposes.</li> <li>• select and make effective use of digital tools to create digital artefacts both under instruction and of their own choosing;</li> </ul> <p>decide on the most appropriate way to present their learning - thinking about aesthetics, functionality and impact on the user, and responding appropriately.</p>	<p>Pupils create, deconstruct and refine programs to accomplish specific goals.</p> <p>They create programs with loops which terminate when conditions are met or continue whilst conditions are present (e.g. 'repeat until' and 'repeat whilst').</p> <p>Pupils understand and use simple selection (e.g. if/then and if/then/else) to create interactive programs based on conditions being met / not met.</p> <p>They begin to use simple operators within their programs.</p>	<p>Pupils identify and manage the benefits and risks of a range of online activities in terms of content, contact and conduct to ensure they are safe, respectful and responsible online. They know how to report concerns, seek support for themselves and others and persist until they get the help they need.</p> <p>Pupils make responsible choices about their own online identity and consider the potential impact of this on their digital footprint. They understand that online identities can be copied or modified and some of the possible implications of this.</p> <p>They can describe times when they might responsibly share personal information (including payment details), the importance of seeking permission and the need for strong passwords.</p> <p>They can describe ways technology may impact their own and others' physical and mental wellbeing (positively and negatively), understand their responsibilities in regard to this and can suggest a range of positive strategies to limit the negative impact of technology and online behaviours.</p>

Autumn 1 <b>A Victorian Education</b>	Autumn 2 <b>What Price Progress?</b>	Spring 1 <b>Our Place in Space</b>	Spring 2 <b>Highgate N6</b>	Summer 1 <b>Benin - An African Kingdom</b>	Summer 2 <b>A Village School</b>
<u>How search works</u> <ul style="list-style-type: none"> <li>BBC introduction to search technology <a href="https://www.bbc.co.uk/bit/size/clips/zspbcdm">https://www.bbc.co.uk/bit/size/clips/zspbcdm</a></li> </ul> <u>My Media Choices</u> <ul style="list-style-type: none"> <li>Digital Passport: Twalkers</li> <li>Net Aware: Apps, Games and Social Media Sites</li> </ul> <p>KS2 E-Safety assembly</p>	<u>Historical Dragon's Den</u> <ul style="list-style-type: none"> <li>Use iMovie to create film about inventors.</li> <li>Storyboard, film, edit and publish film</li> </ul> <u>Be a Super Digital Citizen</u> <ul style="list-style-type: none"> <li>Digital Passport: E-volve</li> <li>BBC Own It: Cyberbullying Quiz</li> </ul> <p>E-Safety Jenga (UKS2)</p>	<u>Virtual space stations</u> <ul style="list-style-type: none"> <li>TinkerCAD used to create virtual models based on drawings.</li> </ul> <u>Build a Starwars universe</u> <ul style="list-style-type: none"> <li>Drag and drop code shell <a href="https://studio.code.org/s/starwarsblocks/lessons/1/levels/1">https://studio.code.org/s/starwarsblocks/lessons/1/levels/1</a></li> </ul> <u>A Creator's Rights and Responsibilities</u> <ul style="list-style-type: none"> <li>Digital Passport: Mix-n-Mash</li> <li>Spotting Fake News</li> </ul> <p>Safer Internet Day</p>	<u>Introduction to Email</u> <ul style="list-style-type: none"> <li>Children use Google Classroom Emails to go on a treasure hunt with class mates</li> <li><a href="http://www.emmaclemen.com/email-treasure-hunts/">http://www.emmaclemen.com/email-treasure-hunts/</a></li> </ul> <u>Spooky Cartoons!</u> <ul style="list-style-type: none"> <li>Use Scratch to create a cartoon with 2 scenes and a jump scare.</li> </ul> <u>Private and Personal Information</u> <ul style="list-style-type: none"> <li>Digital Passport: Password Protect</li> <li>Band Runner: Lock</li> <li>ICO: Resources for Schools</li> </ul> <u>E-safety what if?</u> <ul style="list-style-type: none"> <li>Scenarios and responses</li> </ul>	<u>Artefact Hunters</u> <ul style="list-style-type: none"> <li>Children research, draw and digitise artefacts to create a virtual class museum.</li> </ul> <u>Our Online Tracks</u> <ul style="list-style-type: none"> <li>Digital Passport: Share Jumper</li> <li>Search It Up: My Popstar Disaster</li> <li><a href="https://www.youtube.com/watch?v=7pLLhXUle-s">https://www.youtube.com/watch?v=7pLLhXUle-s</a></li> </ul> <p>KS2 E-Safety assembly</p>	<u>Highgate Primary School</u> <ul style="list-style-type: none"> <li>Use iMovie to create film about Highgate Primary School to send to Partner school in Stoke by Nayland.</li> <li></li> <li>Storyboard, film, edit and publish film</li> <li></li> </ul> <u>Introduction to Python</u> <ul style="list-style-type: none"> <li>Fundamentals and basics</li> </ul> <u>Keeping Games Fun and Friendly</u> <ul style="list-style-type: none"> <li>The Adventures of Kara, Winston and the SMART Crew: Chapter 5</li> <li>Chicken-Shop Grooming</li> </ul>