

Highgate Primary

Year 3 Computing Curriculum

Understanding Technology/Digital Literacy	Programming	Digital Citizenship and e-safety
<p>Pupils understand that computers (in various forms) generally accept inputs and produce outputs and can give examples of this.</p> <p>Pupils recognise - and can describe - some of the services offered by the Internet, especially those used for communication and collaboration.</p> <p>With increasing levels of autonomy, pupils are becoming confident 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"> • follow and expand on agreed lines of enquiry, using key words and phrases to effectively access digital content such as text, still images, video and audio • identify, collect and manipulate different types of data (e.g. numerical, research facts etc.) which they present as information, showing a greater awareness of purpose and audience. <p>present and communicate their learning to others in a variety of ways using text, still images, video and audio. They combine digital tools to achieve specific goals and think carefully about the impact on their audience.</p>	<p>Pupils create programs to accomplish specific goals using an increasing range of digital devices and applications.</p> <p>They can decompose programs to test them and understand how making even small changes to an algorithm can have a significant impact on the outcome.</p> <p>They begin using simple repetition (e.g. 'repeat x times' and 'repeat forever') and understand how this can be used to improve efficiency in their programs.</p>	<p>Pupils are able to identify a range of content, contact and conduct benefits and risks, describe how to manage them safely and respectfully and know where to go for help and support when they have concerns.</p> <p>They can explain what is meant by 'identity', how this might be represented differently in different situations and why others might mis-represent their identity. They develop their understanding of 'trust' and the importance of being careful about what is shared online and of giving and gaining consent.</p> <p>Pupils can describe positive and negative effects of online activity / behaviours and begin to understand how to make safer and healthier decisions, including considering the appropriateness of games and online content for different ages.</p> <p>Pupils can describe positive ways for someone to interact with others online and understand how this will positively impact on how others perceive them.</p>

Autumn 1 Palaeontology to Archaeology	Autumn 2 Chocolate	Spring 1 Treasures of Ancient Egypt	Spring 2 Race to the South Pole	Summer 1 From Source to Sea	Summer 2 Meadowsong
<p><u>Which museum is best?</u></p> <ul style="list-style-type: none"> Use trip advisor / Google to research, explore and rate museum websites from around the world <p><u>Stonehenge</u></p> <ul style="list-style-type: none"> Children use Minecraft to create a virtual Monolith Children can transfer plan to 3D printer to create a physical representation of the monoliths <p><u>Avoid the dinosaurs!</u></p> <ul style="list-style-type: none"> Children challenge each other to navigate an obstacle course of toy dinosaurs by assessing and pre-writing a set of instructions. Instructions then given to floor robots. <p><u>Device free moments</u></p> <ul style="list-style-type: none"> Children discuss benefits of screen time and benefits of screen free time <p>KS2 E-Safety assembly</p> <ul style="list-style-type: none"> Interland: Reality River 	<p><u>Mouse skills</u></p> <ul style="list-style-type: none"> Develop mouse accuracy https://mouseaccuracy.com <p><u>Chocolate Bar Advert</u></p> <ul style="list-style-type: none"> Children use Scratch Jr to create an advert for a chocolate bar using sprites and sound. Children review, improve and debug animations. <p><u>Putting a STOP to Online Meanness</u></p> <ul style="list-style-type: none"> Interland : Kind Kingdom <p>E-Safety Jenga (LKS2)</p>	<p><u>Explore the Pyramids</u></p> <ul style="list-style-type: none"> Use Google Earth/ Geo-mapping tools/ Wikipedia to go on a virtual Tour of the Pyramids. Use screenshots to create a digital scrapbook <p><u>We are digital citizens</u></p> <ul style="list-style-type: none"> Jargon buster / see it from both sides <p>KS2 E-Safety assembly</p>	<p><u>Explore the sea bed</u></p> <ul style="list-style-type: none"> Children create a complex sea bed environment. Floor robots used to navigate and visit specific places. Algorithms written, tested, debugged, evaluated and improved <p><u>That's Private!</u></p> <ul style="list-style-type: none"> Interland: Tower of treasure <p><u>Redesign the rules</u></p> <ul style="list-style-type: none"> Children look at HPS safety guidelines and illustrate a poster 	<p><u>What's your opinion?</u></p> <ul style="list-style-type: none"> Children use survey monkey to design and publish a survey based on water conservation. Results presented using tables / charts in word <p><u>Introduction to Scratch</u></p> <ul style="list-style-type: none"> Fundamentals and basic blocks – exploratory <p>We are digital citizens - Digital trails</p> <ul style="list-style-type: none"> BBC Own It: Where Are Your Photos Going? <p>KS2 E-Safety assembly</p>	<p><u>Microscopic worlds</u></p> <ul style="list-style-type: none"> Children use class digital microscopes to capture images of flowering plants. Images stitched together and presented as a slideshow with music. Films published on school website <p><u>Introduction to Scratch 2</u></p> <ul style="list-style-type: none"> Using 'if' and 'when' blocks to grow a flower Makey Makey and pots with water – when water level is correct, program informs. <p><u>Who is in your online community?</u></p> <ul style="list-style-type: none"> Band Runner: Share