

Computing Key Knowledge Overview Summer 1

Substantive concepts: Computer Science, Information Technology and Digital Literacy Second order concepts: Function, System, Communication, Innovation and Responsibility		
Year group	Topic	Key Knowledge
1	Lego Builders	<ul style="list-style-type: none"> To know that in order to build things you need to follow instructions correctly and relate this to the term algorithm Understand how to follow instructions accurately Understand how to create effective instructions Know that correcting errors in an algorithm is debugging and be able to use this to debug errors
2	Presenting	<ul style="list-style-type: none"> To know that information can be presented and communicated online in different ways Improvements can always be made to digital media we create based on feedback we have been given Understand how to use a variety of software to manipulate and present ideas (quizzes, publisher fact file on purple mash, 2 create a story) and make decisions based on which one is most appropriate
3	Presenting using google slides	<ul style="list-style-type: none"> Know how to use google slides and how to edit content on this, including adding pictures. Know how to animate a slideshow Know how to create their own presentation on using google slides thinking about knowledge they have on using google slides and target audience. Know how to present effectively
4	Logo	<ul style="list-style-type: none"> Know how to navigate around 2-logo and follow simple instructions Understand the PU and PD commands and know how to use these and other instruction words to create shapes Use strategies to predict what will be created based on instructions given Understand procedures and use the procedure function to create pictures on 2-logo
	Animation	<ul style="list-style-type: none"> Understand how to use animation frames and how to make simple animation using 2 animate Know what the onion skin tool does in animation and how to use this Know how to use backgrounds and sounds to create a more interesting animation Understand what stop motion is and how to create their own stop motion animation
5	E-safety	<ul style="list-style-type: none"> Know what they share has an impact on themselves and others in the long term Know the consequences of promoting inappropriate content online and how to put a stop to such behaviour Understand the need to balance online and offline activities and the impact increased screen-time can have on your wellbeing Understand the risks and benefits of an online presence
6	Networks	<ul style="list-style-type: none"> Know the difference between the world wide web and the internet Know about our school network Understand the differences between more than two network types such as: LAN, WAN, WLAN and SAN Know strategies to research effectively and know the impact of Tim Berners-Lee