



Shadsworth Junior School



Curriculum

Year 6 Scheme of Work		
Term: Autumn 2		Topic: Computer Science
Key Skills and Knowledge:		
<p>National Curriculum Statement design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts use sequence, selection, and repetition in programs; work with variables and various forms of input and output use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs</p> <p>Key skills and competences</p> <ul style="list-style-type: none"> I can use technical vocabulary when describing the basics of how a computer and network work, including the internet. I can plan an adventure game using a decision tree. I can write algorithms and programs to achieve specific goals I can find errors in programs by checking each part of the program (debug) I can explain how my algorithms work I can write an algorithm to cause an event to happen in response to an input I can use logical reasoning to predict the outcome of a program or sequence of instructions that uses more sophisticated programming techniques. 		<p>Online safety – Using technology safely – Safer Internet Day Theme</p> <p>National Curriculum Statement use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact</p> <p>Online safety – Using Technology Safely Digital Foot Print/SMART rules</p> <ul style="list-style-type: none"> I acknowledge other people’s work when I have permission to use it. I know that using other people’s digital resources without permission may break copyright laws. I know that sharing, publishing or uploading some files or comments may be a criminal offence. I think carefully about the content of information I share online to ensure it is respectful, accurate and does not put others or myself at risk. I understand that I may be held responsible for anything uploaded in my personal areas and pages. I know that anything created using technology can be shared with others e.g. embarrassing videos and images.
Reading and Writing Opportunities (Long and Short Activities)		
Creative Ideas and Hooks		
Writing a back story for the adventure game Advertising the adventure game		Creative ideas and hooks Plan and create an adventure game about the Vikings
Links to PSHCE, Equality and British Values Work		
Respecting difference – linked to digital foot prints and the need to respect others.		
Key Vocabulary:	Resources Available / Visits/Visitors	Useful Websites:
Variable Broadcast Receive broadcast If Input Output Decision tree algorithm	Scratch online	Swiggle.org.uk - Child Friendly Search Engine for Kids Access the ProjectEvolve Toolkit ProjectEVOLVE