



Computing

Key Stage 3 Framework for Learning

Year 8 2016-2017: Creative Foundations

Autumn 1

Knowledge	E-Safety (5hours)
Skills	E-Safety – pupils will research E-Safety Issues and determine how to safe when online and social networking. <ul style="list-style-type: none"> • Planning • Finding • Communicating information • Evaluating
Assessment	<ul style="list-style-type: none"> • E-Safety Podcast • Binary Leaflet • Reliability Worksheet
Reward & enrichment	Best podcasts to be used in the upcoming Digital Safety Week
Character	QofS – Curiosity CV – Self-Help & Self Responsibility Pupils will develop these qualities as they learn about the online risks and how to avoid these. They will become responsible digi champions as they create digital products to help other stay safe online.



Autumn 2

Knowledge	Binary (5 hours)
Skills	Binary, Text & Digits Pupils will learn about the history of Binary. They will learn how to convert text, numbers, sound and images onto binary. They will collect interesting facts about India and China and convert them into a newsletter for fellow year 8 pupils all about Binary.
Assessment	<ul style="list-style-type: none"> • Python Code Chatbot • Holiday animation • Webpage with animation • End of term assessment
Reward & enrichment	Best Newsletter to be published on the FrogOS.
Character	QofS – Creativity & Motivation CV –Solidarity & Social Responsibility Pupils will develop their ability to solve mathematical problems in computing through the use of binary.






Spring 1

Knowledge	Info Reliability (5hours)
Skills	Pupils will be learning about the importance of different search methods and how to test for bias information. They will learn: <ul style="list-style-type: none"> • Boolean • Bias • Reliability • Search Engines • Advanced Searches
Assessment	<ul style="list-style-type: none"> • E-Safety Podcast • Binary Leaflet • Reliability Worksheet
Reward & enrichment	Code Club will allow pupils to partake in extra curricular activites with programming.
Character	QofS – Resiliency & Practice CV – Equality & Equity Pupils will be using advanced searches and Boolean to practice their effective use of searching the internet.





Spring 2	
Knowledge	Python (6 hours)
Skills	Python Quiz – Pupils will create a quiz to test fellow pupils on saving the planet. They will be taught how to create variables, identify and correct syntax errors through tests. Ultimately, they will create an interactive quiz that requires input from the user.
Assessment	<ul style="list-style-type: none"> Python Code Chatbot Holiday animation Webpage with animation End of term assessment
Reward & enrichment	Code Club will allow pupils to partake in extra curricular activities with programming.
Character	QofS – Optimism & Empathy CV – Openness & Honesty Pupils will learn to communicate through the use of a computer language known as Python. They will develop optimism as they see their skills grow in an area new to many of them. <div style="float: right; text-align: center;">  </div>
Summer 1	
Knowledge	Networks (5 hours)
Skills	Pupils will research these areas and decide which components would be used for a specific computer. They will also study the different types of network topologies and identify the most suitable one for different needs. They will collect prices and input data into a spreadsheet then present their key findings in a business style pitch.
Assessment	<ul style="list-style-type: none"> E-Safety Podcast Binary Leaflet Reliability Worksheet
Reward & enrichment	Code Club will allow pupils to partake in extra curricular activities with programming.
Character	QofS – Reflection CV – Caring for Others & Self-Help Pupils will reflect on their skills learnt throughout the year as they develop their revision techniques for the summer exams. <div style="float: right; text-align: center;">  </div>
Summer 2	
Knowledge	Animations (4 hours)
Skills	Pupils will be learning about animated banners and the use of effective banners in webpages. They will: <ul style="list-style-type: none"> build an animated banner create effective movements plan and build a webpage export the animation to insert on the webpage evaluate and improve
Assessment	<ul style="list-style-type: none"> Python Code Chatbot Holiday animation Webpage with animation End of term assessment
Reward & enrichment	Code Club will allow pupils to partake in extra curricular activities with programming.
Character	QofS – Responsibility CV – Democracy Pupils will develop their qualities in learning how to use ICT in a responsible way to create an animation fit for purpose. <div style="float: right; text-align: center;">  </div>