

# COMPUTING

## CODING

### National Curriculum Objectives

- 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
- understand computer networks including the internet; how they can provide multiple

### Key Vocabulary

object	output	control	event	programme
code	system	simulate	variable	command



Intents	Student
I can explain coding language such as Object, Action, Output, Control and Event.	
I can use a ZChart to represent a sequential program design.	
I can design and write a program that simulates a physical system.	
I can introduce selection in my programming by using the if command.	
I understand what a variable is in programming.	
I know what debugging means.	

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## e-Safety

### National Curriculum

- use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

The first lesson of each term throughout the year provides an important focus on e-safety. Children explore the ever-changing issues through discussion, presentation or group work.

safe	online	password	personal details
alert	e-safety	staying safe	awareness
support	report	trusted adults	pop-up
cyberbullying	suspicious	responsible	impact
permission	acceptable	unacceptable	



Intents	Student
I know how to keep safe using the internet.	
I know the impact on others when sharing photographs and the importance of seeking permission.	
I know what Cyberbullying means and how to deal with it.	
I know which information is safe to share online and which isn't.	
I know the importance of safety when talking to someone on line.	
I know acceptable and unacceptable behaviour when online.	