

Curriculum Intent Statement for Computer Science

At Chase Terrace Academy we aspire for all of our pupils to achieve greater things than they ever thought possible.

We pride ourselves on being a warm and welcoming school that places community at the heart of everything we do. Our ambitious curriculum is enriching and inclusive, providing challenge and breadth for all. This empowers our students to become compassionate, confident and creative individuals who are resilient, respectful and equipped with a desire to take up a fulfilling role in society and the wider world.

In Computer Science we aspire to enrich students with a varied and deep understanding of computing developments, concepts and the impact of technology on our society and environment. Students learn a diverse range of skills such as programming in a range of languages and also study the theory behind the science of computing, the Internet and the ever growing importance of our personal security and privacy. Ultimately, we aim to give students the knowledge and experience they need to study Computing to degree level, to use technology in their day to day lives or careers and to manipulate technology and tools to compliment almost any future study or job.

Year 8 Curriculum Implementation Plan (Computer Science)

Computer Science				
Knowledge and Skills –	Reading, Literacy and	Formative Assessment	Summative Assessment	Link to GCSE Content
Students will be taught	Numeracy			
to				
Understand, describe	Reading:	On screen reviews of	Four end of unit on	Binary/Logic – Unit 2.4
and apply common	 Regular use of 	student work	screen tests.	and 2.6
searching algorithms:	on screen			
Linear search	sources of	Regular self assessment	One end of year	Financial education –
Binary search	information	at key stages against	assessment	Links directly to GCSE
bindiy sourch	Research and	level descriptors		ICT coursework and
Understand, describe,	online reading			also Business Studies
apply and discuss the	and extracts	Regular opportunities to		
benefits and	Literacy:	revisit previous tasks		Networks and the
drawbacks of the	 Use of spelling 	and improve based on		internet – GCSE
bubble sort algorithm	and grammar	feedback		Computer Science Unit
	tools			1.4 and 1.5
	Regular review	Verbal feedback on an		
	of in class work	individual basis		



Understand that	focussed on level		Programming – GCSE
computers use the	of written	Whole class feedback	Computer Science unit
Binary number system	response		2.2, 2.3
	 Modelling of 	Microsoft Forms based	,
Perform simple number	appropriate level	quizzes and quick tests	
conversions between	of written	with visual feedback	
decimal and binary	response	WIIIT VISOUI TEEDDOCK	
decirridi drid biridiy	•	-	
	Numeracy:		
Perform simple binary	 Algebra 		
addition	Logic and		
	conditions such		
Follow simple Boolean	as AND, IF		
logic (AND, OR, NOT)	 Comparators – 		
	Greater than,		
Understand how	Less than		
computers represent	Boolean logic		
text, images and sound	Binary addition		
Understand a range of			
financial issues and skills			
such as:			
 Interest 			
 Inflation 			
The effect of			
interest and			
inflation on			
borrowing and			
spending			
Safe and			
manageable			
borrowing			
Types of			
borrowing			
The cost of living			
	1	1	



		N.	
Setting career goals and			
ambitions			
 Investing, stock 			
markets and			
shares			
How the networks work			
and what they are:			
Networking terms			
 The need for networks 			
 How data travels 			
through a			
network			
Networking			
hardware			
What the internet is			
The difference			
between the			
WWW and the			
internet			
Packets and			
routing			
How to make simple			
web pages in HTML			
Programming skills:			
Making decisions			
using IF			
Manipulating			
input			
 Data types 			



Connecting to sources of data		
 Further Online Safety: Online Identity Online stereotypes Online Bias 		