

What I need to know: Y4 Computing – Computational Thinking

We nurture the curiosity to learn, the courage to lead and the compassion to care.

Name:

Class:

In this unit we are learning to understand that problems can be solved more easily with computational thinking.

What I will know	✓	Start	End
Use decomposition to solve a problem by finding out what code was used		<input type="radio"/>	<input type="radio"/>
Use decomposition to understand the purpose of a script of code.		<input type="radio"/>	<input type="radio"/>
Know the four strands of computational thinking: decomposition, pattern recognition, abstraction and algorithm		<input type="radio"/>	<input type="radio"/>
Create algorithms for a specific purpose		<input type="radio"/>	<input type="radio"/>
Using abstraction and pattern recognition to modify code		<input type="radio"/>	<input type="radio"/>
Know that combining computational thinking skills can help you to solve a problem.		<input type="radio"/>	<input type="radio"/>
Understand that pattern recognition means identifying patterns to help them work out how a code works.		<input type="radio"/>	<input type="radio"/>
Understand that algorithms can be used for a number of purposes e.g. animation, games design etc		<input type="radio"/>	<input type="radio"/>

Skills I may use...	
Remember: name, identify, describe	Analyse: investigate, infer, select, clarify, imagine
Understand: predict, recall, interpret	Create: plan, design, construct, speculate
Apply: use, show, relate, demonstrate	Evaluate: compare, assess, judge

Vocabulary I need to know...		
1. I have heard the word, but I don't know what it means	2. I understand what the word means	3. I can explain what the word means and give other examples
abstraction, algorithm, code, computational thinking, decomposition, input, logical reasoning, output, pattern recognition, script, sequence, variable		

Opportunities to support English and Maths
<ul style="list-style-type: none"> Maths: solve problems involving multiplying and adding. 2-D shapes and 3-D shapes. recognising angles. English: Spoken Language – develop understanding through speculating, hypothesising, imagining and exploring ideas.

Curriculum Links and Enrichment Activities
<ul style="list-style-type: none"> Physical Education: perform dances using a range of movement patterns.

Respect

Responsibility

Reflection

Resilience