

## Computing Termly Plan - Year 7 Term 3

Topics	Area of Computing	Objectives	Computing Vocabulary
<p><b>Computational thinking:</b> <b>Programming languages</b></p> <ul style="list-style-type: none"> <li>➤ Make a simple calculator</li> <li>➤ Input and output in Python</li> <li>➤ Make a Python program.</li> <li>➤ Add two numbers</li> <li>➤ Choose a language</li> <li>➤ Source code and machine code.</li> <li>➤ Check what you know</li> </ul>	<ul style="list-style-type: none"> <li>❖ making scripts</li> <li>❖ saving commands</li> <li>❖ exploring programming languages</li> <li>❖ make a python program</li> <li>❖ choosing a language</li> </ul>	<p><b>By the end of the topic learners should know:</b></p> <ul style="list-style-type: none"> <li>♣ How to make programs with scratch and python.</li> <li>♣ How to save commands as program files.</li> <li>♣ About the difference between programming languages.</li> <li>♣ What happens when a computer runs a program?</li> </ul>	<ul style="list-style-type: none"> <li>☺ Python shell</li> <li>☺ Error message</li> <li>☺ Machine code</li> <li>☺ IDE</li> <li>☺ source code</li> <li>☺ compile</li> <li>☺ assign</li> <li>☺ string</li> <li>☺ interface</li> <li>☺ executable file</li> </ul>
<p><b>Programming: It all adds up</b></p> <ul style="list-style-type: none"> <li>❖ Logical tests and choice</li> <li>❖ Add up a total</li> <li>❖ Conditional loop</li> <li>❖ A class project</li> <li>❖ Extend the project</li> <li>❖ Readable and user friendly</li> <li>❖ Assessment</li> </ul>	<ul style="list-style-type: none"> <li>❖ Use if structures</li> <li>❖ Make python programs</li> <li>❖ Find and fix errors</li> <li>❖ Make user friendly and readable programs.</li> </ul>	<ul style="list-style-type: none"> <li>♣ How to use conditional (if) structures in Python.</li> <li>♣ How to make python programs with loops.</li> <li>♣ How to find and fix errors in program.</li> <li>♣ How to make your programs user friendly and readable.</li> </ul>	<ul style="list-style-type: none"> <li>☺ conditional structure</li> <li>☺ logical test</li> <li>☺ indent</li> <li>☺ for loop</li> <li>☺ while loop</li> <li>☺ syntax error</li> <li>☺ logical error</li> <li>☺ user friendly</li> <li>☺ interface</li> <li>☺ readable</li> </ul>