



Unit: Programming/python	Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5	Lesson 6
LESSON TOPIC QUESTION(S)	Can you apply Selection programming?	What is alteration, strings? Can you apply these in your programming?	Can you use statements in programming ?	What variables and can you use them in programming?	Can you apply skills gained to a mini project of your own?	END ASSESSMENT as per AP data
Knowledge & Skills development	<u>Theory Knowledge</u> <ul style="list-style-type: none"> Mathematics. ... Problem solving. ... Communication. ... Teamwork solving problems/errors 			<u>Digital Skills</u> <ul style="list-style-type: none"> Algorithms Coding language syntax 		
Assessment / Feedback Opportunities	Formative Assessment Workbook activity Class Discussion Questioning pupils Verbal Feedback Live Marking Teacher assessment of practical/knowledge skills during lessons verbal Targeted questioning throughout topic			Summative assessment Unit Assessment Student Portfolio		
Key Vocabulary	<p>Variable A named location in memory used to store data.</p> <p>Data Type The kind of value a variable holds (e.g., integer, string, boolean).</p> <p>Constant A variable whose value does not change during program execution.</p> <p>Operator A symbol used to perform operations (e.g., +, -, ==, &&).</p> <p>Expression A combination of variables, values, and operators that yields a result.</p>					

	<p>Statement A line of code that performs an action.</p> <p>Conditional Code that runs only if a certain condition is true (e.g., <code>if</code>, <code>else</code>).</p> <p>Loop A structure that repeats code (e.g., <code>for</code>, <code>while</code>).</p> <p>Break Exits a loop before it finishes normally.</p> <p>Continue Skips the rest of the loop and starts the next iteration.</p>
Literacy/Reading opportunities	<p>Beginning Programming All-in-One Desk Reference For Dummies by Wallace Wang-</p> <p>https://www.bbc.co.uk/bitesize/subjects/zvc9q6f - bbc bitesize support on topics</p>
Cross Curricular Themes	<p>Maths</p>
Personal Development (Including British Values, RSE, Citizenship)	<p>Working Together Respectful of others</p> <p>Team-based projects: Use pair or group programming to encourage collaboration, respect, and democratic decision-making.</p> <p>Debates on tech ethics: Topics like AI surveillance, data privacy, and social media</p>
Career Opportunities	<p>AI Engineer, Programmer, computer science teacher, software developer</p>