Holy Family Catholic School – Faculty of Maths & Technology   Spring Half-Term 1   Year 8 Computing

Learning Intention	Vocab	Concept	Retrieval	Success Criteria	Hinge Questions for this lesson	Red Zone
Week 1 Understand what Python is and display output	Python, program, output, print()	Algorithms Programming & Development Data & Data Representation	What is a program? Name one programming language	I can write a program that prints text to the screen	What does print() do? Will text print without quotation marks?	Write a program that prints a welcome message and your name
Week 2 Use variables to store data	Variable, assignment, value, =	Algorithms Programming & Development Data & Data Representation	What does print() do?	I can create and use variables in a program	Does = mean "equals" or "assign"? Can variable names contain spaces?	Create two variables and print them in a sentence
Week 3 Get input from the user	Input, user input, string	Algorithms Programming & Development Data & Data Representation	What is a variable?	I can ask the user a question and store their answer	What data type does input() return? Why do we need variables with input?	Ask the user for their name and print a personalised message
Week 4 Use data types and arithmetic operators	Integer, float, string, operator, + - * /	Algorithms Programming & Development Data & Data Representation	What does input() return?	I can perform calculations using numbers	Why doesn't "5" + "5" equal 10? When do we need int() or float()?	Create a program that asks for two numbers and prints the result of a calculation

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Week 5 Use selection to make decisions	Selection, condition, if, elif, else, comparison operators	Algorithms Programming & Development Data & Data Representation	What operator is used for assignment?	I can use an if statement to make a decision	What is the difference between = and ==? What happens if no condition is true?	Write a program that checks if a number is positive or negative
Week 6 Apply Python skills to solve a problem	Algorithm, logic, test, debug	Algorithms Programming & Development Data & Data Representation	Which commands are used for input, output, and decisions?	I can create a working Python program using selection	How can we test if a program works correctly? Why is testing important?	Create a program that asks for user input and gives different outputs based on conditions