

UNIT OVERVIEW: [PHP Part 1](#)

Lesson	Course	Exercises	Objectives	Progression Pathways	Time (min)
1	Introduction to PHP	1 - 13	<ul style="list-style-type: none"> Understand what PHP is, it's syntax and what it's used for Demonstrate basic mathematical operations Create variables and store values in them Output text and variables to the browser using echo 	L1 algorithms L3 programming	20
2	Conditionals and Control Flow	1 - 4	<ul style="list-style-type: none"> Use the comparison operators Construct If and If/ Else statements 	L1/3 algorithms L4 programming	15
3	Control Flow: Switch	1 - 6	<ul style="list-style-type: none"> Construct If/ Else if/ Else statements Understand Switch syntax and construct a switch statement Understand the concept of falling through 	L4 algorithms L4 programming	20
4	Arrays	1 - 7	<ul style="list-style-type: none"> Understand and construct arrays Demonstrate different ways of accessing arrays by offset Modify and delete array entries 	L6 data L6 programming	15
5	For Loops in PHP	1 - 7	<ul style="list-style-type: none"> Understand the uses of For and ForEach loops Construct For and ForEach loops 	L4/5 algorithms L8 programming	20
6	While Loops in PHP	1 - 7	<ul style="list-style-type: none"> Understand the uses of While loops and construct them Demonstrate correct EndWhile syntax Construct a Do/While loop 	L8 programming	20

Computational thinking concepts: - Abstraction - Generalisation - Algorithms - Evaluation - Decomposition

UNIT OVERVIEW: [PHP Part 2](#)

Lesson	Course	Exercises	Objectives	Progression Pathways	Time (min)
7	Functions, Part 1	1 - 8	<ul style="list-style-type: none"> Understand the uses of functions and how to call functions Use substr(), strtoupper() and strtolower() to modify strings Use strlen() and strpos() to gain more information about a string Understand the functions rand(), array_push(), sort(), rsort() and join(); use these functions to print a random element from an array 	L6/7 programming 	30
8	Functions, Part 2	1 - 7	<ul style="list-style-type: none"> Review how to call functions using strlen() Create a function which outputs text and call it Understand the return keyword and use it to create a function which returns text entered as a parameter 	L6/7 programming 	20
9	Objects in PHP	1 - 10	<ul style="list-style-type: none"> Understand how a class works and it's uses Create a class and instances of it Create global properties and and a constructor within a class Create a method within a class 	L8 programming 	35
10	Object-oriented PHP	1 - 8	<ul style="list-style-type: none"> Review creating a class and instances of it Understand and demonstrate that built-in methods can be used with objects Create a class which inherits from the previous class and overrides a method Use the final keyword to prevent overriding Understand constants and output them using the scope resolution operator Use the static keyword to output elements from within a class 	L8 programming 	35
11	Advanced Arrays	1 - 7	<ul style="list-style-type: none"> Review outputting a string concatenated with array items Understand the difference between a normal array and an associative array Create an associative array Use a ForEach loop to loop through the contents of an associative array and output each one 	L6/8 data L8 programming L8 hardware 	20