

Year 9- Python Programming (Home Learning)

Lesson	Learning objective	Home learning links
1 (the number in the sequence of lessons)	The big question / the theme for the lesson	Where students can go during home learning
Lesson 1	<p>Identify the basic features of the Python Programming language</p> <p>Describe the purpose of the Print command</p> <p>Write simple programs to print lines</p>	<p>Lesson content in more detail on PowerPoint</p> <ul style="list-style-type: none"> • L1- Intro To Python & Print • PowerPoint, Worksheets + Solutions • https://classroom.thenational.academy/lessons/first-steps-6ctk4d • https://www.bbc.co.uk/bitesize/guides/zwmbgk7/revision/5
Lesson 2	<p>Describe the purpose of a variable</p> <p>Create programs using variables</p>	<p>Lesson content in more detail on PowerPoint</p> <ul style="list-style-type: none"> • L2- Variables • PowerPoint, Worksheets + Solutions • https://classroom.thenational.academy/lessons/first-steps-6ctk4d • https://www.bbc.co.uk/bitesize/guides/zwmbgk7/revision/2
Lesson 3	<p>Describe the purpose of the input command</p> <p>Create programs using the input command</p>	<p>Lesson content in more detail on PowerPoint</p> <ul style="list-style-type: none"> • L3- Input • PowerPoint, Worksheets + Solutions • https://classroom.thenational.academy/lessons/first-steps-6ctk4d • https://www.bbc.co.uk/bitesize/guides/zwmbgk7/revision/5
Lesson 4	<p>Describe the purpose of different Arithmetic Operators</p> <p>Create python programs using Arithmetic Operators</p>	<p>Lesson content in more detail on PowerPoint</p> <ul style="list-style-type: none"> • L4- Arithmetic Operators • PowerPoint, Worksheets + Solutions • https://classroom.thenational.academy/lessons/crunching-numbers-6gtked

		<ul style="list-style-type: none"> • https://www.bbc.co.uk/bitesize/guides/zwmbgk7/revision/1
Lesson 5	<p>Describe the purpose of different Comparison Operators</p> <p>Create python programs using Selection (IF Statements)</p>	<p>Lesson content in more detail on PowerPoint</p> <ul style="list-style-type: none"> • L5- Selection- IF ELSE • PowerPoint, Worksheets + Solutions • https://classroom.thenational.academy/lessons/at-a-crossroads-cgwkac • https://www.bbc.co.uk/bitesize/guides/z2p9kqt/revision/1
Lesson 6	<p>Describe the purpose of Selection</p> <p>Create python programs using ELIF statements- ELIF (ELSE IF Statements)</p>	<p>Lesson content in more detail on PowerPoint</p> <ul style="list-style-type: none"> • L6- Selection- IF ELIF ELSE • PowerPoint, Worksheets + Solutions • https://classroom.thenational.academy/lessons/more-branches-cmt32d • https://www.bbc.co.uk/bitesize/guides/z2p9kqt/revision/5
Lesson 7	<p>Describe the purpose of Iteration</p> <p>Create python programs using Iteration (FOR Loops)</p>	<p>Lesson content in more detail on PowerPoint</p> <ul style="list-style-type: none"> • L7- Iteration- Count Controlled Loops • PowerPoint, Worksheets + Solutions • https://classroom.thenational.academy/lessons/round-and-round-6cr6ae • https://www.bbc.co.uk/bitesize/guides/z3khpv4/revision/1
Lesson 8	<p>Describe the purpose of Iteration</p> <p>Create python programs using Iteration (WHILE Loops)</p>	<p>Lesson content in more detail on PowerPoint</p> <ul style="list-style-type: none"> • L8- Iteration- Condition Controlled Loops • PowerPoint, Worksheets + Solutions • https://classroom.thenational.academy/lessons/round-and-round-6cr6ae • https://www.bbc.co.uk/bitesize/guides/z3khpv4/revision/3
Lesson 9	<p>Re-learn keywords in Python Programming (Revision)</p> <p>Create python programs to solve real life problems</p>	<p>Lesson content in more detail on PowerPoint</p> <ul style="list-style-type: none"> • L9- Python Revision • PowerPoint, Worksheets + Solutions • https://classroom.thenational.academy/lessons/putting-it-all-together-cthkad

		<ul style="list-style-type: none"> • https://www.ocr.org.uk/Images/202838-20-code-challenges.pdf • https://www.ocr.org.uk/Images/260930-coding-challenges-booklet.pdf
Lesson 10	<p>Complete an End of unit assessment</p> <p>Peer Assess the End of Unit Assessment using the Mark Scheme</p>	<p>Lesson content in more detail on PowerPoint</p> <ul style="list-style-type: none"> • L10- Assessment • PowerPoint, Assessment + Mark Scheme available in T Drive:
Lesson 11	<p>Reflect on your End of Unit Assessment</p> <p>Apply improvements using DIRT (Dedicated Improvement and Reflection Time)</p>	<p>Lesson content in more detail on PowerPoint</p> <ul style="list-style-type: none"> • L11- DIRT & Mastery Week • PowerPoint, Assessment + Mark Scheme available in T Drive: • DIRT + Mastery sheet attached to Assessment for targets • List of Dirt targets available of T Drive: