Grade	7	Subje	ect	DT	Lesson number		1	Week number	1
Unit		Date			Tim	ne		Page number	
1		2 nd Septem	ber		45 min	nutes 14 - 20			
Equipmo	ent requir			Learning ob	jective	s			
Python I	book			1.1 Recogni programmi		imp	ortance of		
					1.3 Recogni lives.	se algc	orith	i ms in our dai	ly
Keyword	ds				Computer, programmir	•	•	programming, Je	
Starter/	Introducti	on activity							
Time		Introduce e	-safety	guide	lines as per t	he intr	odu	ction in the b	ook
10 minu	tes	(after unit 1	conter	nts). Yo	ou may choo	se to d	lo th	nis as an activi	ty
approx.		(crossword,	word s	earch,	etc.)				
Main									
Time	 This lesson will introduce what programming is and its uses and importance around us an an								
	Compu scientis		techno proble ams a tasks	ole now ology to ems. Writes nd code to easier on	Any a builds currer consid	nsw s upo nt jo ders	ole in future er that on the b role and future		
	Engine	er	Work	es, etc. any fields develop	techn Any a	olo <u>c</u> nsw	nents in gy. er that on the	-	

	and evaluate systems, to make new systems or improve existing systems.	current job role and considers future improvements in technology.
Information technologist	Supports company computer systems for different types of companies. Needs knowledge of technology, databases, computers and security.	Any answer that builds upon the current job role and considers future improvements in technology.

Before starting activity 2 provide an example to the students of one computer in the house and what it does. Do not use examples of a personal computer, laptops, tablets or smartphones. This could be an example of a computer system inside an appliance. For example, a microwave, which heats up food according to the temperature and time setting.

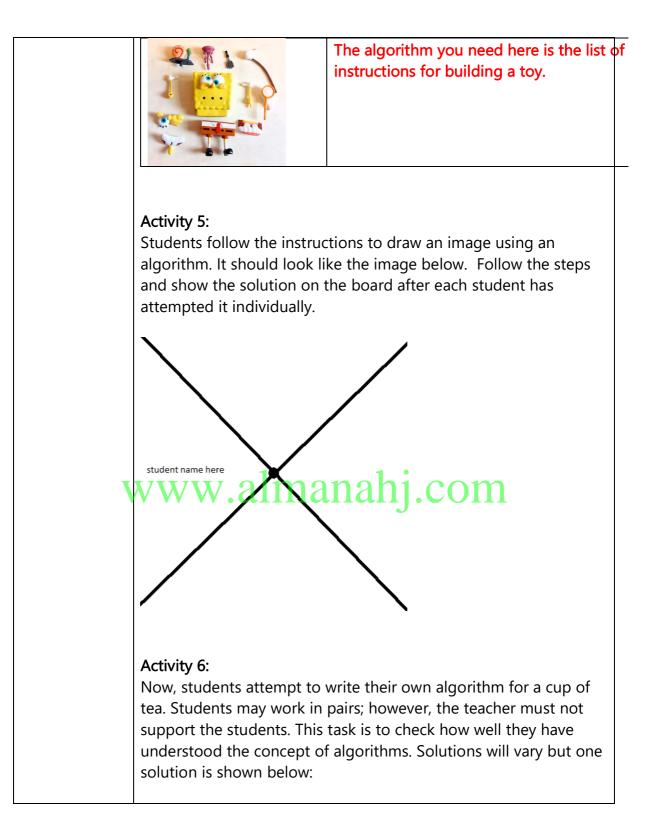
Activity 2: Students can complete the table in pairs. Some solutions below.

Number	Computer	What does it do?
1.	House alarm	Senses when an intruder is in the house and sounds the alarm.
2.	Washing machine	Washes clothes according to the wash cycle selected. Lasts for a certain length of time and keeps the water at a certain temperature.
3.	Fridge freezer	Keeps the inside running at a certain temperature that is cold enough for the food to stay fresh.

Discuss how these computers link to **programming** in terms of how they process the program step-by-step and how this is important in the technology around us. Refer to the 'did you know' box to explain high and low-level languages.

	Look at the timeline of programming languages and identify the popular programming languages with the students. Explain the examples for each on page 20.					
	Activity 3: Students will read the passages and fill in the blanks according to the popular programming languages discussed. Solutions below:					
	 Answers: The first computer algorithm was created by Ada Lovelace Short Code was one of the first high level languages made for a computer. C is the world's most popular programming language. Other languages such as C#, Java and Python have been developed from this. Pinterest and Instagram have been made using the Python programming language. 					
Plenary						
Time	Summarise the lesson, recapping the Learning objectives and key vocabulary used throughout. Complete any activities not completed in class as homework.					
Assessm focus	ent Recognise the importance of programming and the use of algorithms in our lives.					
Learning Curve	The entire course plus specific instructional videos are available on Learning Curve via this link (USE bit.ly): <u>https://learningcurve.moe.gov.ae/en/default/Course#/view/2280/fal</u> <u>se/2335/CourseMap/Session/View/51a2c7d8-5c0d-4430-bc17-</u> <u>6430e7a2462d</u> The access code is:					

Grade	7	Subject	DT	Lesson number	2	Week number	1	
Unit	t	Date		Time	Time Page num			
1		2 nd Septemb	er	45 minutes 21 - 23				
Equipme	nt requ	ired:		Learning ob	ojectives			
Compute	Computers with PyCharm				ise algo i	r ithms in our dail	v lives.	
Python b	ook			1.3 Recognise algorithms in our daily lives.				
Keywords	5			program, al	gorithm	i, flowchart		
Starter/In	ntroduc	tion activity						
Time						sson. You may cł	noose	
10 minut	es	to do this as an	activit	ty (crossworc	l, word s	search, etc.).		
approx.								
Main								
Time		Start introducin	g algo	prithms on pa	age 21.			
	V	Look at what algorithms are and how a computer uses them. Use an example to explain this: cup of coffee, page 21. Talk the students through the example explaining that the steps must be followed to achieve a result. What would happen if the order was changed? Answer on the same page after Fig 1.10. Activity 4: This is a matching task in which students need to match the images to the algorithm needed. This is to be done individually. Solutions below: You can find the algorithm to solve this					steps the e ually.	
		problem in a cookbook! The algorithm you need is a set of dir There might be different ways to the there, so you can have different algorithm					o the ge	



	Take a cup.					
	Put water in the kettle.					
	Boil the water in the kettle.					
	Put the teabag into the cup.					
	Pour boiling water into the cup.					
	Remove the teabag.					
	Add milk if required.					
	Add sugar if required.					
Plenary						
Time	Summarise the lesson through student feedback. Students to present their solution for Activity 6. Teacher to clarify any issues with the algorithms.					
	Complete any activities not completed in class for homework.					
Assessment	Recognise the importance of algorithms in our lives					
focus						
Learning	The entire course plus specific instructional videos are available					
Curve	on Learning Curve via this link (USE bit.ly):					
	https://learningcurve.moe.gov.ae/en/default/Course#/view/2280/f					
	alse/2335/CourseMap/Session/View/51a2c7d8-5c0d-4430-bc17-					
V	x ^{6430e7+2462} almanahj.com					
	The access code is:					

Grade	7	Subject	DT	Lesson number	3	Week number	1		
Unit	;	Dat	e	Time		Page nun	nber		
1		2 nd Sept	ember	45 minutes 24 - 27					
Equipme	nt req	uired:		Learning objectiv	es				
Compute	rs wit	h PyCharm		1.2 Identify the ke	ey pro g	gramming term	าร.		
Python b	ook			1.5 Practise Pythc	on usin	g PyCharm inte	erface.		
Keyword	S			program, prograr language, Python	-		J		
Starter/In	ntrodu	ction activit	у						
Time		Recap pre	vious less	on about algorithr	ns. You	u may choose t	to do an		
10 minut	es	algorithm	on the bo	pard together as a	class.				
approx.									
Main									
Time		using the s Start with 24. Then, i program in Activity 7: Explain the (print() fur Demonstra project. Us to follow t Then, show project fol	software l introduce ntroduce n Python, page 24 e two main action and ate to the se the ste he steps w them he der can s	ng the Python pro PyCharm as the ID page 24. in elements that w	gramm E we v ill be u o set u ps 1-3 v Pytho	ing language, will be using to sed in the prog up a new PyCha). Allow the stu	page gram arm idents		
		Let students follow the remaining steps to complete the hello world program and run it. Clarify step 7 to the students. They will then answer the question on page 27. What did the print() function do in this program?							
		on page 27. What did the print() function do in this program?							

	The print function displayed the text between the brackets – hello world
Plenary	
Time	Summarise the lesson, recapping the learning objectives and the key vocabulary used throughout. Complete any activities not completed in class as homework.
Assessment	Be able to use PyCharm to create a Python program
focus	
Learning Curve	The entire course plus specific instructional videos are available on Learning Curve via this link (USE bit.ly): https://learningcurve.moe.gov.ae/en/default/Course#/view/2280/f alse/2335/CourseMap/Session/View/51a2c7d8-5c0d-4430-bc17- 6430e7a2462d The access code is:

Grade	7 Subject	DT	Lesson number	1	Week number	2			
Unit	Date		Time	Page number					
1	9 th		45 minutes		28 - 29				
	September								
Equipme	ent required:	Lear	Learning objectives						
compute	ers with	1.2 I	dentify the key pro g	grammir	ng terms.				
PyCharm	า	165	Review the code for	debuac	ina nurnoses				
Python b	book	1.01		ucbugg					
Keyword	ls	pro	gramming, Python,	PyChari	m, debugging				
Starter/I	ntroduction acti	vity							
Time	Recap previou	ıs less	on on how to set u	p a new	project and Pythor	n file in			
10	PyCharm. You	may	choose to do this a	s a stud	ent-led activity.				
minutes									
approx.									
Main									
Time		conce	ept of error handling	g throug	gh the example on	page			
	28.		1	1.					
	WW	W.	almana	in 1.	com				
		t the	new code (below) ir	nto a Py	thon file and answe	r the			
	question.								
		pr	int(hello world)						
	Answer:								
		not w	ork. The output will	display	a syntax error				
				alopidy	a syntax erron.				
	Use the book	to ex	plain how to identify	v errors	in a code and what				
			rocess of finding ar						
		· - 1•							
	Activity 8:								
	Students to id	entify	the error in the co	de, they	may also choose to	C			
	correct the co	-		,	-				
	The print func	tion i	s missing a closing	quotatic	on mark and closing)			
	bracket.								
	print("My name is Asma.")								
	Students work	s work through the two tasks on the next page. Solutions below:							
	Answer 1:								
	SyntaxError: E	OL wł	nile scanning string	literal					

	Answer 2: Both are syntax errors, which means the interpreter doesn't know how to run the code. SyntaxError: invalid syntax – this error means the code has not been written correctly. SyntaxError: EOL while scanning string literal – this means you are missing the end quotation mark					
Plenary						
Time		Summarise the lesson by recapping the learning objectives and the key vocabulary used throughout. Complete any activities not completed in class as homework.				
Assessme focus	ent	Be able to identify errors in programs/code				
Learning Curve		The entire course plus specific instructional videos are available on Learning Curve via this link (USE bit.ly): https://learningcurve.moe.gov.ae/en/default/Course#/view/2280/fal se/2335/CourseMap/Session/View/51a2c7d8-5c0d-4430-bc17- 6430e7a2462d				

Grade	7	Subject	DT	Lesson number	2	Week number	2	
Unit	t	Date		Time Page nu		Page numb	er	
1		9 th Septerr	nber	45 minutes	45 minutes 30 - 31			
Equipmen	t requir	ed:		Learning objectives				
Python bo	Python book			1.4 Construct flo	wchar	ts from algorith	ms.	
				1.7 Translate alg	orithm	ns into working		
				programs.				
Keywords				program, algorit	hm, fl	owchart		
Starter/Int	roducti	on activity						
Time 10 minute approx.	s		tudent	on on debugging s with some code		-		
Main								
Time	W	Activity 9: This lesson w getting ready encouraged ideas. Theref The teacher t students are they should l and stop poi	vill start v for sch to allow ore, wo then int familian be used nt and t	rithm is. This can l with students writh hool. Solutions for v each student to rking individually croduces the basic r with the four diff l. Clarify that the f that all the shapes e arrow shows the	ting a r this v come is bes s of a ferent lowch s are c	n algorithm for vill vary. It is up with their ov t. flowchart. Ensur shapes and whe art must have a onnected with a	re en start in	
		 Students will translate their algorithm for getting ready for school into a flowchart. They have been provided a starting point and must continue using the correct shapes as they go. The teacher may wish to do this together as a class depending on the ability of the class. Students need to use the output box to print each step of their algorithm. They should complete the flowchart with the stop symbol. 					o. ing heir	

Summarise the lesson by recapping the learning objectives and the key vocabulary used throughout. Show the flowchart shapes and allow the students to match the correct use of the shape. Students should complete any activities not completed in class as homework.
Be able to create flowchart from an algorithm
The entire course plus specific instructional videos are available on Learning Curve via this link (USE bit.ly): https://learningcurve.moe.gov.ae/en/default/Course#/view/228 0/false/2335/CourseMap/Session/View/51a2c7d8-5c0d-4430- bc17-6430e7a2462d The access code is:

Grade	7	Subject	DT	Lesson number	3	Week number	2	
Unit		Date		Time		Page numbe	er	
1		9 th Septer	nber	45 minutes 32				
Equipment	: req	uired:		Learning objectives				
Python bo				1.5 Practise Pythc	on usir	ng PyCharm interf	ace.	
Computers with PyCharm			1.7 Translate algo	orithm	s into working			
				programs.		5		
Keywords					mmine	g, algorithm, flowo	shart	
	rodu	ction activity		program, program	<u></u>	g, algorithin, nowe		
Time	Juu			on on flowchart sha	2005.2	nd their uses Pro	vido	
10 minutes	-			d allow the studen	•			
approx.)	algorithm.					Jusic	
Main		- 9						
Time		Activity 11:						
		•	l transla	te the algorithm fr	om th	e previous lesson	into	
		code. To do	this, the	y will use the print	:() fund	ction for each step	o in	
		the algorithr	n. 🔒	1 9	•			
		WWW	.al	manahi	I.C	om		
		The students		eate a new Python				
		project folde	er in PyC	harm. Teacher to r	ecap ł	how to do this. Th	ie	
		teacher will s	support	students in writing	g their	code and help wi	th	
		debugging.						
		Students she	uld be	encouraged to deb		ror for themselve	-	
		Some comm		-	Jug ei	for for themselve.	5.	
				e the print() function	on is r	not surrounded wi	ith "	
		" • A cm	oll n hac	not been used for	tha n	rint() function		
			ni h nas	not been used 101	uie p			
		Answers will	be in th	e format of:				
		print("step 1	") – whe	ere step 1 is the tex	t for t	he first step in the	e	
		algorithm						
		print("step 2	")					
		print("step 3	") etc.					
					~~			
				the question on pa	•			
Planan		Answer: The	ουτρυτ	shows the steps in	the a	igoritn m .		
Plenary								

Time	Summarise the lesson by recapping the learning objectives and the key vocabulary used throughout. Students should complete any activities not completed in class as homework.
Assessment	Be able to create a flowchart from an algorithm and translate this
focus	into a program
Learning	The entire course plus specific instructional videos are available on
Curve	Learning Curve via this link (USE bit.ly):
	https://learningcurve.moe.gov.ae/en/default/Course#/view/2280/f
	alse/2335/CourseMap/Session/View/51a2c7d8-5c0d-4430-bc17-
	6430e7a2462d
	The access code is:

Grade	7	Subject	DT	Lesson number	1	Week number	3
Unit		Date		Time	Time Page num		
1		16 th Septembe	er	45 minutes 33 - 35			
Equipmen required:	t	Learning obje	ctives				
Python bo computers with PyCh	S						
Keywords				g, programming algorithm, flowc	-	age, Python,	
Starter/Int	roduc	ction activity					
Time 10 minute approx.	s i				-	n algorithm/flow students to han	
Main							
Time		Activity 12: Students will be introduced to basic formatting: new line \n and ta The teacher should explain what each of these do (use the book for reference). Students will then apply their own details into the code snippet in the book to write a small piece of text formatted in code. They should add to this any information they like. Teacher to provide pop quiz for students to complete. **End of Unit 1**				ok for et in	
Plenary							
Time		Summarise the lesson by recapping the learning objectives and the key vocabulary used throughout. Students can type the code from the starter to see if it works. Students should complete any activitien not completed in class as homework.					e from
Assessmer focus	nt	To apply forma	tting to	a program			
Learning Curve		Learning Curve	via this	link (USE bit.ly):		deos are availabl Course#/view/22	

lse/2335/CourseMap/Session/View/51a2c7d8-5c0d-4430-bc17- 6430e7a2462d
The access code is:

Grade	7	Subject	DT	Lesson number	2	We num	_	3
Unit	Date			Time		Pag	age number	
2	2 16 th September						38 - 45	
Equipmen	Equipment required:			g objectives				
Python bo	ok		2.1 Defi	ine variables and co	nstants	5.		
computers	computers with PyCharm			ntify how to use vari	i ables t	o store	and ou	itput
Keywords	varia	able, data,	user					
Starter/Int	roductio	n activity						
Time	Activity	to recap t	he mean	ing of the keywords	s from I	Unit 1. T	This car	n be
10	done as	a matchir	ng or cro	ssword exercise.				
minutes								
approx.								
Main								
Time	 Start with an introduction to the unit (page 38). Introduce variables and good practice when naming variables (page 40). Key points to stress: It cannot have spaces. It should not start with a lowercase letter (this is good programming practice). It cannot start with a number. Refer to the example on page 40 explaining how a name can be stored. A key point to stress is that the name of the variable does not change, but what is stored inside does change.					ored.		
	Activity		nloto Act	tivity 1 to identify a	uitabla	variable	namo	-
				tivity 1 to identify su that needs to be sto				
		rmation to		Variable				
	Exampl			Example:				
	My age			myAge				
	Your address yourAddress							
	First na	ime		firstName				
	Second	l name		secondName				

Date of birth	dateOfBirth	
This will lead to ass be explained.	igning a value to a variabl	e. The following table mu
Variable name	Value	
myName	= "Asma"	
provided with the v	ssigning values to a variab ariable name (they know t eed to come up with a valu ign the value.	he information required
Variable name	Value	Assigning
Example: studentGrade	Example: 7	Example: studentGrade = 7
myAge	Any answer, e.g. 11	myAge = 11
teacherName	Teachers name, e.g. Mohammed	Remind students abo using quotation mark around text:
		teacherName = "Mohammed"
numOfStudentsIn(lass	The number of studentin the class, e.g.30	t numOfStudentsInClas 30
		e friendsName = "Asma

	This activity will take the students through the process of creating a variable in a Python file. Support the students during this process as they answer the questions. Solutions below:					
	numOfFalcons = 4This line assigns the value 4 to the variable numOfFalcons.					
	print(numOfFalcons This line prints the value, 4, assigned to the numOfFalcons variable.					
Plenary						
Time Summarise the lesson by recapping the learning objectives a key vocabulary used throughout. Students can practise e variables and values from Activity 2. Students should completed in class as homework.						
Assessmer focus	ment To understand how variables work					
Learning Curve The entire course plus specific instructional videos are available of Learning Curve via this link (USE bit.ly): https://learningcurve.moe.gov.ae/en/default/Course#/view/2280, se/2335/CourseMap/Session/View/51a2c7d8-5c0d-4430-bc17- 6430e7a2462d The access code is:						

Grade	7	Subject	DT	Lesson number	3	Week number	3
Unit		Date		Time Page num			ber
2	16	th September		45 minutes 46 - 49			
Equipme	nt required	l:		Learning object	tives		
Python b	ook			2.2 Identify ho	w to u	se variables to	
compute	rs with PyC	harm		store and outp	out dat	ta.	
				2.3 Use the inp	out fur	n ction to get	
				information fro	om a u	iser.	
Keyword	S			Variable, data,	user, i	input, output	
Starter/Ir	ntroduction	activity					
Time	Recap pre	evious lesson o	on good	practice for nar	ning v	ariables. This ca	an
10	be done a	as a quiz.					
minutes							
approx.							
Main							
Time	Students will be introduced to the difference between variables that change values and those that don't. These are called variables and constants. Wall and Andrew Science Start on page 46 and explain how a variable's value can change. Solution for the question: 5 Then compare this to using constant values in a variable. Explain the content on page 46. Activity 4: Students complete Activity 4 to identify variables and constants from a requirement. They will be provided with the use of the variable and the variable name. Solutions below:				ution n a		
	Example	1	Va	ariable name	Variable or constant?		
	The level number in a computer gamelevelVariable – the level will increase during the game						
	High sco	the game core in a game highScore Variable – the score is always changing and updating during the game					d

	yer name in a game nus multiplier in a me	playerName bonus	Constant – this stays the same throughout the game Constant – this is always set to multiply a value by this amount, for example: If the player collects an item worth 10 points but they have a bonus multiplier active, it will multiply 10 by the value in the				
This it be and belo Run 13	Activity 5: This activity will involve the students trying code in PyCharm to see how it behaves. It is important that the students try this code for themselves and answer the questions through their own experiences. Solutions below: Run the program. What are the outputs? Answer: 13 155						
	Which variable(s) change their value? Answer: myHeight						
Which variable(s) are constant? Answer: grade7Age and grade8Age							
Plenary							
Time	Summarise the lesson b	by recapping the le	earning objectives and the				
key vocabulary used throughout. Student activities not completed in class as homewo							
Assessment focus	To understand how vari	ables work					

Learning	The entire course plus specific instructional videos are available on
Curve	Learning Curve via this link (USE bit.ly):
	https://learningcurve.moe.gov.ae/en/default/Course#/view/2280/fal se/2335/CourseMap/Session/View/51a2c7d8-5c0d-4430-bc17- 6430e7a2462d
	The access code is:

Grade	7	Subject	DT		son nber	1	Week number	4
Unit		Date Time Page number		Time Page nu			er	
2	23	B rd September		45 minutes 50 - 51				
Equipme	nt require			Learni	ng objec	tives		
Python b compute	2.2 Identify how to use variables to store and output data.2.3 Use the input function to get							
					ation fro			
Keyword				variab	le, data,	user, i	nput, output	
Time 10 minutes approx.			n on goo	od pract	ice for n	aming	variables. This	can
Main								
Time	Introduction to inputs in code: start on page 50 and explain how inple work and how they are used when we require an input from the userWWW.amanaj.comActivity 6:Student will write and run the code so they can answer the questionThis is multiple choice, solution below:The program will not ask for the user's age.The program prints nothing.The program asks the user for their age, then outputs the valent entered.The program prints nothing.				n. or alue			
	Activity 7: Students practise with more code to see how it behaves. In this task, the students need to find the correct code to ask for the user's name and age; however, it only prints the name. They must try each code to see what the output is. Solution below: name = "" age = 0 print(name) print(age)					ne		

	name = input("Enter your name") age = input("Enter your age")						
	print(name)						
	name = input("Enter your name")						
	print(name)						
	print(age)						
	name = input("Enter your name")						
	age = input("Enter your age")						
Dianany							
Plenary Time	Summarise the lesson by recapping the learning objectives and the						
	key vocabulary used throughout. Students should explain what the						
	other blocks of code do for activity 7. Students should complete any activities not completed in class as homework.						
Assessment focus	t To understand how an input works						
Learning	The entire course plus specific instructional videos are available on						
Curve	Learning Curve via this link (USE bit.ly): https://learningcurve.moe.gov.ae/en/default/Course#/view/2280/fal se/2335/CourseMap/Session/View/51a2c7d8-5c0d-4430-bc17- 6430e7a2462d						
	The access code is:						

Grade	7	Subject	DT	Lesson number	2	Week number	4
Unit	Date			Time Page n		Page num	ber
2	23 rd S	eptember		45 minutes		52 - 53	}
Equipmer	nt required	:	Learnin	g objectives			
Python bo	ook		2.1 Defi	ne variables ar	nd con s	stants.	
computer	rs with PyC	harm	2.2 Ider	ntify how to use	e <mark>varia</mark> l	bles to store a	and
compaters with rycham			output				
				the input func	tion to	get informat	ion
			from a				
				nonstrate the s	kiiis iea	arned by writi	ng
Keywords	•			r ograms .		tout	
	troduction	activity	variable	e, data, user, inp	Jut, Ou	ipui	
Time	L.	revious lesson d	n using	inputs in code	Provid	he the studen	tc
10		pets of code to	-	•			
minutes			2 identity	mat the lipu			
approx.							
Main	XX /	$\mathbf{W}\mathbf{W}$	ma	nahi	\mathbf{c}	m	
Time	This less	on will introduc	e the stu	idents to plann	ing co	de before the	ey
	write any						
	Activity & Spend so planning class. Stu Explain t are need code. Solution What va What w	Activity 8: Spend some time with the students explaining each stage of the planning document. This can be done step-by-step with the whole class. Students must understand the importance of planning code. Explain that students must know how the code will work, what variables are needed and which functions will be used before they can write the code. Solution for the planning table below: What variables will you need? age address What will the input text say? input("Enter your age") input("Enter your address")				ables	
		ne whole code					
		nput("Enter you = input("Enter		drocs")			
		address = input("Enter your address")					

	print(age) print(address)				
	Students will then type their code in to a new PyCharm file to see if it works.				
Plenary					
Time	Summarise the lesson by recapping the learning objectives and the				
	key vocabulary used throughout. Students should complete any				
	activities not completed in class as homework.				
Assessmer	t To understand the importance of planning code				
focus	To be able to write their own code from planning				
Learning	The entire course plus specific instructional videos are available on				
Curve	Learning Curve via this link (USE bit.ly):				
	https://learningcurve.moe.gov.ae/en/default/Course#/view/2280/fal				
	se/2335/CourseMap/Session/View/51a2c7d8-5c0d-4430-bc17-				
	6430e7a2462d				
	The access code is:				

Grade	7	Subject	DT	Lesson number	3	Week number	4
Unit	nit Date			Time Page number			ber
2	2	3 rd Septembe	er	45 minute	s	53, 58 and	59
Equipme	ent requir	ed:		Learning object	tives		
Python b	ook			2.1 Define varia	ables a	nd constants .	
compute	ers with P		2.2 Identify how	v to us	e variables to <mark>s</mark>	tore	
				and output dat			
				2.3 Use the inp		•	
				information fro			
				2.4 Demonstrat		,	/
	-			writing short p	-		
Keyword				variable, data, ι	user, in	put, output	
		on activity		<u> </u>			
Time		•		sons for planning			
10	Import	ant. This can l	be done a	is a multiple-cho	nce qu	IZ.	
minutes							
approx. Main				010001	00		
Time	Contin			standing code fr	om th		20
	Activity 8: Students complete the second program for Activity 8. The box provide a reminder of how to start a new line and how to indent. Solution for the planning table below:				rides		
	What	variables do y	you need'	? nickname message			
	What	text say?	input("Enter input("Enter	-			
	Write	the whole co	de below				
	nickname input("Enter your nickname") print("Hello", nickname) message = input("Enter your message") print(message)						

	Anything similar to this is fine, as long as it meets the requirements. Students then type their code in to a new PyCharm file to see if it works. Students to complete the end of unit assessment.			
Plenary				
Time	Summarise the lesson by recapping the learning objectives and the key vocabulary used throughout. Students should complete any activities not completed in class as homework.			
Assessme focus	nt To understand the importance of planning code To be able to write own code from planning Complete end of unit assessment to test understanding			
Learning Curve	The entire course plus specific instructional videos are available on Learning Curve via this link (USE bit.ly): https://learningcurve.moe.gov.ae/en/default/Course#/view/2280/fal se/2335/CourseMap/Session/View/51a2c7d8-5c0d-4430-bc17- 6430e7a2462d The access code is:			

Grade	7	Subject	DT	Lesson number	1	Week number	5
Unit		Date		Time		Page number	
2	30	th Septembe	er	45 minutes	5	54 - 57	
Equipment		- ·	ng obje	ctives			
Python boo	ok	2.2 Ide 2.3 Us 2.4 De	 2.1 Define variables and constants. 2.2 Identify how to use variables to store and output data 2.3 Use the input function to get information from a us 2.4 Demonstrate the skills learned by writing short programs. 				
Keywords		variab	le, data,	user, input, outpu	ut		
Starter/Intr	1						
Time 10 minutes approx.		oduction to	the tasl	k sheet.			
Main							
Time	Tea Stu The poe hap The nev Bef tab This Solu	dent will int dent will cre inputs outputs formatti program we m. The poe open after al title must h v line. ore they sta le given to p	ormatting gram will ask the user to enter a title and each lir he poem will be four lines long. The poem output after all the lines have been entered. must be indented; each line of the poem must s mey start, the program must be planned. They m ren to plan your program. on will focus on the planning stage of the task s below:		nd each line of a bem output will c em must start on d. They must use	only a	

· · · · · · · · · · · · · · · · · · ·		
		poemLine3
		poemLine4
	Vhat will the input text	input("Enter the title for the poem")
	ay?	input("Enter line 1 of the poem")
		input("Enter line 2 of the poem")
		input("Enter line 3 of the poem")
	//	input("Enter line 4 of the poem")
	Vhat will you use to	\n
	tart a new line?	
	Vhat will you use to	\t
ir	ndent?	
V V	Vrite the whole code bel	ow
	olution 1	
_	oemTitle = input("Enter	the title for the poem")
-	oemLinel = input("Enter	
-	oemLine2 = input("Enter	
-	oemLine3 = input("Enter	
p	oemLine4 = input("Enter	line 4 of the poem")
	rint("\t", poemTitle)	
	rint poemLinel	anahj.com
	rint (poemLine2)	
p	rint(poemLine3)	
p	rint(poemLine4)	
S	olution 2	
p	<pre>ooemTitle = input("Enter</pre>	the title for the poem")
_	<pre>ooemLinel = input("Enter</pre>	
-	<pre>poemLine2 = input("Enter</pre>	
	<pre>poemLine3 = input("Enter poemLine4 = input("Enter</pre>	
	<pre>ooemLine4 = input("Enter</pre>	The 4 of the poem")
	print("\t", poemTitle, "\	n", poemLinel, "\n",
		emLine3, "\n", poemLine4)
Plenary		
	Summarica the lasses	by recomping the learning phiesting, and
Time		by recapping the learning objectives and
	the key vocabulary use	ed throughout. Students should complete
	any activities not comp	leted in class as homework.
A		
Assessment focus	To be able to plan own	code

Learning Curve	The entire course plus specific instructional videos are available on Learning Curve via this link (USE bit.ly):
	https://learningcurve.moe.gov.ae/en/default/Course#/view/2280 /false/2335/CourseMap/Session/View/51a2c7d8-5c0d-4430- bc17-6430e7a2462d
	The access code is:

Grade	7	Subject	DT	Lesson number	2	Week number	5
Unit		Date		Time	9	Page nur	nber
2		30 th Septembe	er	45 minι	utes	54 - 5	7
Equipme	ent require	d:		Learning ob	jectives		
Python b	ook			2.1 Define v	ariables	and constant	S.
compute	ers with Py	Charm		2.2 Identify	how to u	ise variables	to
				store and o	•		
					•	nction to get	
				information			
						skills learned	d by
14	1			writing shor	· ·		
Keyword				variable, da	ta, user, i	nput, output	
	ntroductio	•				·	
Time		ecap planning	g trom last	t lesson and a	address a	any issues.	
10 minu	tes						
арр							
Main				0 10 0 0		122	
		I continue wo					
	•	rom the previ ne solution is l			iust now	type the coc	ie into
			Delow.				
S	olution 1						
_		input ("Enter	the title	for the poem'	')		
-		input ("Enter					
_		input ("Enter input ("Enter					
-		input ("Enter					
	rint("\t", rint(poemLi	poemTitle)					
-	rint(poemLi						
-	rint(poemLi						
p	rint(poemLi	ine4)					
I							

	Soluti							
		itle = input ("Enter the title for the						
	_	<pre>nel = input("Enter line 1 of the poem") ne2 = input("Enter line 2 of the noem")</pre>						
	-	<pre>ne2 = input("Enter line 2 of the poem") ne3 = input("Enter line 3 of the poem")</pre>						
	-	<pre>Line3 = input("Enter line 3 of the poem") Line4 = input("Enter line 4 of the poem")</pre>						
	poeniz	inc. input intoi int or the poo	/					
	print	<pre>("\t", poemTitle, "\n", poemLinel, "\ poemLine2, "\n", poemLine3, "\n", po</pre>						
		ents should then test that it all works a below, student should tick either yes		completing the				
			Yes	No				
	Does	s the program run with no errors?						
	Can	you enter each line of the poem?						
		s the output show the title	hj.co	m				
		s the output show each line of the n on a new line?	U					
	.	ents to complete the evaluation.						
		of Unit 2**						
DI								
Plena	ry							
Time		Summarise the lesson by recapping	the learning ob	jectives and the				
		key vocabulary used throughout. Stu	udents should c	omplete any				
		activities not completed in class as h		. ,				
Asses	smen	To be able to write and test own coo						
	t focus							
Learning The entire course plus specific instructional videos are available on								
Curve Learning Curve via this link (USE bit.ly):								
https://learningcurve.moe.gov.ae/en/default/Course#/view			e#/view/2280/false					
/2335/CourseMap/Session/View/51a2c7d8-5c0d-4430-bc1								
		6430e7a2462d						
		The access code is:						

Grade	7	Subject	DT	Lesson number	3	Week number	5
Unit		Date		Time		Page numb	er
3	3 30 th September		45 minute	S	62 - 67		
Equipment re	Equipment required:			Learning object	tives		
Python book			3.1 Define data	a types	s and their purp	ose.	
computers w	ith Py	/Charm		3.2 Recognise	the th	ree main data t y	ypes.
Keywords				data type, strir	ng, inte	eger, float, conv	rert
Starter/Introd	ductio	on activity					
Time 10 minutes a	рр	with som	e questic	ut data from a u ons on the board on statement fo	d for th	nem to come up	
Main							
In the exan Stress Activ Stud varia whic	e Use the book to introduce data types in a pro- In the table, students must be shown the three examples of each. The teacher must explain to Stress that for string data type the text must Activity 1 Students will complete the table for Activity 1 variable name and must identify the data to so which of the three main data types it is: float, below:			own the three r ust explain the ne text must be ananj for Activity 1. The the data to stor	nain d coding surrou CC he stud re in th	g examples clear nded with " " DMD dents are given he variable and	а
Var	iable		Data			Data type	
Exa	mple	:	Example	2:		Example:	
nan	ne		"Asma"			string	
frie	(any na surrour			nmed" ne is fine but m ded by quotatic		string	
age			11 (any inte	integer nteger value is correct)		integer	
em	irateL	iving	"Dubai"			string	
gan	neSco	ore	2000			integer	

gameLevel	1	integer
distanceToSchoolKm	10.5	float
PLAYERI THE CALE BOOL OF THE CALE OF THE C	Player	

Go through page 66 to explain how and why we move between different data types. Take the students through the stages of doing this using the explanation from the book. The two lines for input and converting to integer can be condensed into one line but explain this to the students as two separate lines to ensure they understand the process.

Activity 2:

This activity can be done on the computer. The students need to enter the two lines of code for each question and write the output. The teacher can encourage the students to attempt this in the book first, before trying it on the computer, depending on time. Solutions below:

weight = 45.5 weight = int(weight)	45
length = 100 length = float(length)	100.0
<pre>streetName = "34b street" streetName = int(streetName)</pre>	ValueError
airportCode = "DXB" airportCode = string(airportCode)	DXB

size	eSize = input("Enter your shoe e") eSize = int(shoeSize) Any number entered by the user without decimals
Plenary	
Time	Summarise the lesson by recapping the learning objectives and the key vocabulary used throughout. Recap the three main data types. Students should complete any activities not completed in class as homework.
Assessment focus	Knowing what data types are and the three main types as well as how to convert between them
Learning Curve	The entire course plus specific instructional videos are available on Learning Curve via this link (USE bit.ly); https://learningcurve.moe.gov.ae/en/default/Course#/view/2280/f alse/2335/CourseMap/Session/View/51a2c7d8-5c0d-4430-bc17- 6430e7a2462d
	The access code is:

Grade	7	Subject	DT	Lesson num	ber	1	Week number 6	
Unit		Date		Tin	ne		Page number	
3		7 th Octob	er	45 mir	nutes		69 - 71	
Equipme	nt re	equired:		Learning ob	jectiv	ves		
Python book computers with PyCharm				 3.2 Recognise the three main data types. 3.3 Formulate the code which will convert between data types. 3.6 Use correct operators to perform calculations. 				
Keyword	s			data type, s	tring,	intege	er, float, convert	
Starter/Ir	ntro	duction activ	vity					
TimeRecap the three main of10This can be done as a sminutesto convert.appImage: State of the s								
Main								
Time	Use page 68 to introduce how different data types can be combined and used together. Stress the keyword concatenation . This is when we join different bits of data together. Activity 3 Students handwrite code for a game lobby as per the instructions in the book. They can then type this into PyCharm to test if it works. Solution below: score = 0 username = input("Enter a username for the lobby") print("Welcome ", username, "your current score is ", score) Introduce operators, on page 70, and how they work in code. Use the examples in the table to explain that we can perform calculations .					er the instructions in to test if it works.		
	Activity 4:Students practice the use of operators through writing a score-keeper program as per the instructions in the book. Students first need to plan the different stages of the code. This will get them thinking about how the program is constructed. Solution below:What variable names will you need?score - variable hitValue - constant							

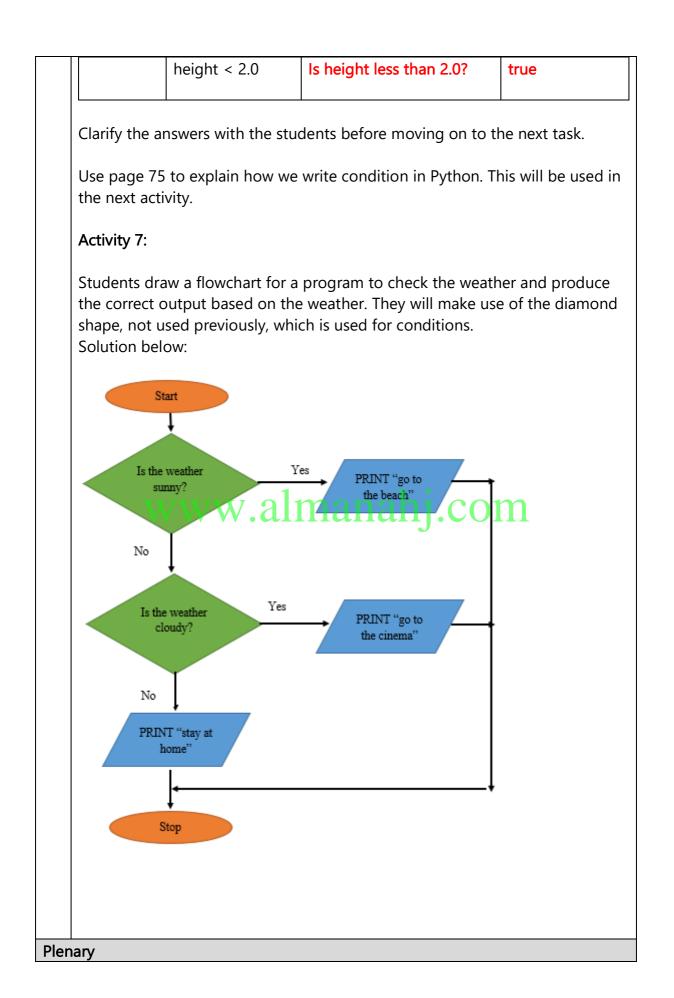
Col Wh ou Wh de Wr sco hit sco	hich is a variable and which is a nstant? hich keyword will you use to tput the score? hich operator will you use to duct the value from the score? hite the whole code below: ore = 100 Value = 5 ore = score – hitValue ore = score – hitValue	print() - (subtract)				
Wr If y Ch An	nt(score) ite this code in a new Python file your code did not work, try to de eck for any red lines in your code swer: score = 90	bug it to see where any errors are.				
Plenary		J				
Time Summarise the lesson by recapping the learning objective the key vocabulary used throughout. Students can type thei into PyCharm to test if it works. Students should complet activities not completed in class as homework. and solv errors in the program code.						
A						
Assessment	To create programs that combi	ine data types and use				
focus Learning	mathematical operators.					
Curve	The entire course plus specific instructional videos are available on Learning Curve via this link (USE bit.ly):					
	https://learningcurve.moe.gov.ae/en/default/Course#/view/2280/ false/2335/CourseMap/Session/View/51a2c7d8-5c0d-4430- bc17-6430e7a2462d					
	The access code is:					

Grade	7	Subject	DT	Lesson number	2	Week number 6		
Unit		Dat	е	Time		Page number		
3		7 th Oct	ober	45 minutes		72 - 73		
Equipme	nt re	quired:		Learning objectiv	es			
Python b				-		main data types .		
compute	rs wi	ith PyCharm	1			n of different data		
				types to form a m 3.6 Use correct o		5 1		
				calculations.	peruto			
Keywords	s			data type, string,	intege	er, float, convert		
Starter/In	ntrod	luction activ	vity					
Time	R	ecap conca	tenation	and operators fror	n prev	ious lesson. Teachers		
10	Ca	an help by g	giving ex	amples on the boa	rd for	using concatenation		
minutes	a	and variables. Operators can be done as a fill-in-the-blanks exercise						
арр		in which students must solve a mathematical problem by filling in						
N A A A	th	ne operator	and savi	ng the result in a v	variable	2		
Main								
Time			•			vriting a program that		
		onibines us		ts, operators and co	Unicate			
	A	ctivity 5:						
		•	can eithe	er do the task step-by-step with students				
	(r	ecommend	ed), or le	et the students attempt each step on their own				
	b	efore going	through	n the solution. Whichever option you choose				
	d	epends on	the abilit	y of the students.				
	D	lan and writ	o a calci	llator program that	ŧ.			
				. 2	ι.			
				or two numbers. umbers to a float c	or inter	nor		
				numbers to a float or integer.				
		•		ition on the numbers. ult in the following way: 'the addition answer is				
		•		it in the following v	way. U			
		(answ		anting on the second	la ave			
		•		raction on the num		ha a huaat		
		•		Ilt in the following way: 'the subtraction answer				
		is (ans	-	·				
		•		iplication on the nu				
		•		It in the following v	way: 'T	he multiplication		
		answe	er is (ansv	wer)'.				

10. prints the result in the folic (answer)'. Solution below: What variable names will you	wing way: 'The division answer is userNum1
need?	userNum2 addAnswer subAnswer multiAnswer divAnswer
Which keyword will you use to output the results?	print()
Write the whole code below	
userNum1 = input("Enter a value userNum1 = float(userNum1)	e for number 1")
userNum2 = input("Enter a value userNum2 = float(userNum2)	e for number 2") 1anj.com
addAnswer = userNum1 + userN print("The addition answer is", ad	
<pre>subAnswer = userNum1 - userN print("The subtraction answer is"</pre>	
multiAnswer = userNum1 * user print("The multiplication answer	
divAnswer = userNum1 / userNu print("The division answer is", div	/Answer)
Write this code in a new Python If your code did not work, try to are. Check for any red lines in yo	debug it to see where any errors

Plenary	
Time	Summarise the lesson by recapping the learning objectives and the key vocabulary used throughout. Students should complete
	any activities not completed in class as homework. and solve any
	errors in the program code.
Assessment	To create programs that uses inputs, concatenation and
focus	mathematical operators
Learning	The entire course plus specific instructional videos are available
Curve	on Learning Curve via this link (USE bit.ly):
	https://learningcurve.moe.gov.ae/en/default/Course#/view/228
	0/false/2335/CourseMap/Session/View/51a2c7d8-5c0d-4430-
	bc17-6430e7a2462d
	The access code is:

Grade	7	Subject	DT		Lesson number	3	Week number	6	
Unit	:	Dat	te		Time		Page numb	ber	
3		7 th Oct	tober	45 minutes 74 - 76					
Equipme	nt req	uired:		Lea	rning objectives				
Python b	ook			3.5	Apply the know	ledge c	of conditional		
compute	rs with	n PyCharm		stat	ements to deter	mine t	he correct outp	out.	
Keyword	s			sele	ction, if, elif, els	e, outp	ut		
Starter/I	ntrodu	ction activity							
	Time 10 minutes app Recap concatenation and operators from previous lesson. Teachers can help by giving examples on the board for using concatenation and variables. Operators can be done as a fill-in-the-blanks exercise in which students must solve a mathematical problem by filling in the operator and saving the result in a variable.							on cise	
Main			<u> </u>						
e che Acti Stud	ck thei i vity 6: dents v	r understand will identify w	ing of th hat a co	nditi	erators and wha the next activity on statement is Solutions are b	y.CO	m		
	Assign value	Condi	tion		What is it aski	ng?	True / Fal	se	
live	es = 5	lives > 0		ls l	ives more than :	zero?	true		
		lives == 4	ļ	ls l	ives equal to 4?		false		
	nirate = man"	= emirate = "Ajman"	=		emirate equal to nan?)	false		
		emirate = "ajman"	=		emirate equal to nan?)	true		
	rEngin 1.2	e carEngine	!= 1.2	ls o 1.2	car engine not e ?	qual to	false		
he 1.5	ight =	height < 1	1.0	ls l	neight less than	1.0?	false		



Time	Summarise the lesson by recapping the learning objectives and the key vocabulary used throughout. Students should complete any activities not completed in class as homework.
Assessment	To understand selection and produce a flowchart with selection.
focus	
Learning	The entire course plus specific instructional videos are available on
Curve	Learning Curve via this link (USE bit.ly):
	https://learningcurve.moe.gov.ae/en/default/Course#/view/2280/fa
	lse/2335/CourseMap/Session/View/51a2c7d8-5c0d-4430-bc17-
	6430e7a2462d
	The access code is:

Grade	7 Subject	DT	Lesson number	1	Week number 7			
Unit	Date		Time		Page number			
3	14 th October	r	45 minutes		77 - 79			
Equipment	t required:		Learning objectiv	'es				
Python bo	ok		3.5 Apply the knc	wledg	e of conditional			
computers	with PyCharm		statements to de	termin	e the correct output .			
Keywords			selection, if, elif, e	else, ou	utput			
Starter/Int	roduction activity							
Time	Recap of the corr	rect u	ses of the selectior	n opera	ators. This can be done			
10	as an activity in w	vhich	the students must	use th	ne correct operator to			
minutes	make the condition	on tru	ie or false.					
арр								
Main								
Time		-			d else and how they			
			in Python code. Us		explanation and			
	sample code on p	page	77 to help with thi	S.				
	Activity 8:	v.a	lmanal	ij.	com			
	Students analyse	code	to identify the cor	rect o	utput.			
	Solution:							
	Number 1 is equ	al to '	15					
	Activity 9:							
		•	• •		le for the flowchart			
					riables and keywords ed. Solution below:			
	What variable names will you need?weather							
	Which keywords	s pi	rint()					
	will you use in	if						
	the program?	el	, elif					
		el	se					
Plenary								

Time	Summarise the lesson by recapping the learning objectives and the key vocabulary used throughout. Students should complete any activities not completed in class as homework.
Assessment	To understand how to write selection statements in Python
focus	
Learning	The entire course plus specific instructional videos are available
Curve	on Learning Curve via this link (USE bit.ly):
	https://learningcurve.moe.gov.ae/en/default/Course#/view/2280
	/false/2335/CourseMap/Session/View/51a2c7d8-5c0d-4430-
	bc17-6430e7a2462d
	The access code is:

Grade	7	Subject	DT	Lesson number	2	Week number	7		
Unit		Date		Time		Page number			
3		14 th Octobe	r	45 minute	s	79			
Equipm	ent requ	iired:		Learning object	tives				
Python	book			3.5 Apply the k	nowled	dge of conditional			
computers with PyCharm				statements to a output.	determ	ine the correct			
Keyword	ds			Selection, if, eli	f, else,	output			
Starter/	Introduc	tion activity							
Time		Recap of the	e correct u	ses of the select	ion op	erators. This can be			
10 minu	utes	done as an a	activity in v	which the studer	nts mus	st use the correct			
арр		operator to	make the	condition true o	r false.				
Main									
Time	Activity 9 continued: Students complete the planning process for the code for the flowchart created for Activity 7. Solution below: What variable weather								
	names need?	s do you							
		-	orint()						
	-		if						
	the pr	- 3	elif						
			lse						
	-	the whole co							
	weath	er = input("Ei	nter the w	eather")					
	if (wea	ather == "sun	ny"):						
		print ("	go to the	beach")					
	elif (w	eather == "cl	oudy"):						
		print ("	go to the	cinema")					
	else:								
		print ("	stay at ho	me")					
	Write	this code in a	new Pyth	on file. Did it wo	rk?				
	-	r code did no for any red li	-	-	ee whe	ere any errors are.			

	Wha	at is the outpu	ut if you enter the types of weather below:				
	sunr	у	go to the beach				
	raini	ing	stay at home				
	clou	dy	go to the cinema				
	Stude	ents code the	ir program in PyCharm and test their outputs.				
Plenary		-					
Time		Summarise	the lesson by recapping the learning objectives and the				
		key vocabulary used throughout. Students should complete any					
		activities no	t completed in class as homework.				
Assessm focus	nent	To understa	nd how to write selection statements in Python				
Learning		The entire c	ourse plus specific instructional videos are available on				
Curve	9		rve via this link (USE bit.ly):				
			ningcurve.moe.gov.ae/en/default/Course#/view/2280/fal				
		se/2335/CourseMap/Session/View/51a2c7d8-5c0d-4430-bc17-					
		6430e7a246	2d				
		The access	code is:				

Grade	7	Subject	DT	Lesson number		3	Week number	7
Unit		Date		Time			Page numbe	er
3		14 th October		45 minutes 80 - 83				
Equipme	nt requi	ired:		Learning ob	jecti	ves		
Python b	ook			3.7 Distingu	ish k	oetwee	n the different ty	pes
compute	rs with l	PyCharm		of software	licer	nses.		-
				3.8 Describe	e UA	E law a	round piracy .	
Keyword	s			software us	age,	licensi	ng, piracy	
Starter/Ir	ntroduct	tion activity						
Time 10 minutes app		o the uses of ents with the			y thi:	s to the	e completed code	ed
Main								
	Use the information from page 80 to explain the different versions of PyCharm. Activity 10, and an a teacher-led class activity. Students will be introduced to the different versions of PyCharm, the licenses they have and why they have these particular licenses. Solutions below: Software type License type							nave
	PyCł	narm Professi	onal Ed		Single user: the software can only be installed on one computer.			
	PyCł	narm Commu	nity Edi	sı d	oons	ored b not pro	: cannot be y a company and ovide profitable	
	PyCharm Educational EditionEducation software: marked for distribution to educational institutions and students at a reduced price.Use the definition of software piracy on page 81 and why it is illegal, well as the UAE law for piracy.							or
								al, as
	Activi	ity 11:						

	The answer for this task will come from explaining the box on page 81.					
	Students to complete pop quiz.					
	End of Unit 3					
Plenary						
Time	Summarise the lesson by recapping the learning objectives and the key vocabulary used throughout. Students should complete any activities not completed in class as homework.					
Assessme focus	To understand the different types of software licences and the laws around piracy.					
Learning Curve	The entire course plus specific instructional videos are available on Learning Curve via this link (USE bit.ly): https://learningcurve.moe.gov.ae/en/default/Course#/view/2280/fal se/2335/CourseMap/Session/View/51a2c7d8-5c0d-4430-bc17- 6430e7a2462d The access code is;					
	www.almanahj.com					

Grade	7	Subject	DT	Lesson number	1	Week number	8	
Unit		Date		Time		Page number		
4	,	WC: 21/10/ ⁻	18	45 minutes		86 - 92		
Equipm	Equipment required:			Learning objectiv	ves			
Python	book			4.1 Define iterati	on and	l use iteration in		
comput	computers with PyCharm			programs.	programs.			
			4.2 Practise loops by writing short programs.			ims.		
Keyword	ds			iteration/ loops,	for loo	p, while loop		
Starter/	ntroduc	ction activity	/					
Time	Recap	o some of th	ne key te	rms covered so fa	r as a v	vord search or		
10	crossy	word puzzle						
minutes								
арр								
Main								
				eration and loops		•		
	coding. A loop is how we iterate in code. Use the coding					ding examples on	page	
	88 to de	emonstrate	how they	y are more efficier	nt.			
			\boldsymbol{J}	manah	1.0	om.	al	
				oops (for and whi	J	•	a	
	nave an	i idea of whe	en to use	e a for loop and w	nen to	use a while loop.		
	This less	son will focu	is on the	uses of a for loop	o. Use p	bage 90 to explair	n how	
	to write	a for loop.	We use t	two keywords: for	and ra	nge.		
		1.						
	Activity			an into a Duthan fi	ila in D	Charm and recor	d tha	
			-	en into a Python fi	lie in P	ycharm and recor	a the	
	1 3 6 10	Solution belo	JW.					
	13010	515						
	Activity	2.						
	•		e their o	wn for loop. It ma	v be be	est to do this as a		
		-			-		loop	
	whole class so all can follow while the teacher explains each step. The loop must count from 0 to 20 in 2s. Solution below:							
	for num in range (0, 21, 2):							
	print(num)							
	Students will then try the code in PyCharm and identify any errors.							
						-		
Plenary								

Time	Provide the students with some problems to write loops for. They must identify whether a for or while loop must be used. Summarise the lesson by recapping the learning objectives and the key vocabulary used throughout. Students should complete any activities not completed in class as homework.
Assessment focus	To know what a for loop is and why loops are needed in programs
Learning Curve	The entire course plus specific instructional videos are available on Learning Curve via this link (USE bit.ly): https://learningcurve.moe.gov.ae/en/default/Course#/view/2280/fal se/2335/CourseMap/Session/View/78c627fd-d286-4b10-9595- 62d32de23aef The access code is:

Grade	7	Subject	DT	Lesson number	2	Week number	8
Unit		Date		Time Page		Page numb	er
4	4 WC: 21/10/18			45 minutes 93 - 97			
Equipme	ent requ	uired:		Learning objectives			
Python book				4.2 Practise loops by writing short programs.			
				4.3 Identify how loops can make code efficient.			9
Keyword	łs			iteration/ loops	s for lo	on while loon	
		ction activity			<u>, ioi ic</u>		
Time			s used in	a for loop. Follo	w un v	with a problem w	vhere
10				e for loop. They		•	
minutes		lesson to help v					
арр		- 1.					
Main							
Tim St	tudents	learn how to w	rite a wh	ile loop. Use the	samp	le code to help v	with
A	ctivity 3	3:		above and expla			s can
TI	he code	as a class activi will run while t num at the end	the value	of num is less tl	han 10	. It will print eac	h
sł	now the			code and analys n file on the boa			can
St	Activity 4: Students understand the importance and efficiency of using a loop through writing code with and without a loop for the same output.						
lo	Students see how writing code in a loop is more efficient than not using a loop. Part A asks the students to plan their program as they have done before and to write the code. Solution below:						
	What va	ariables do you	need?	age year			

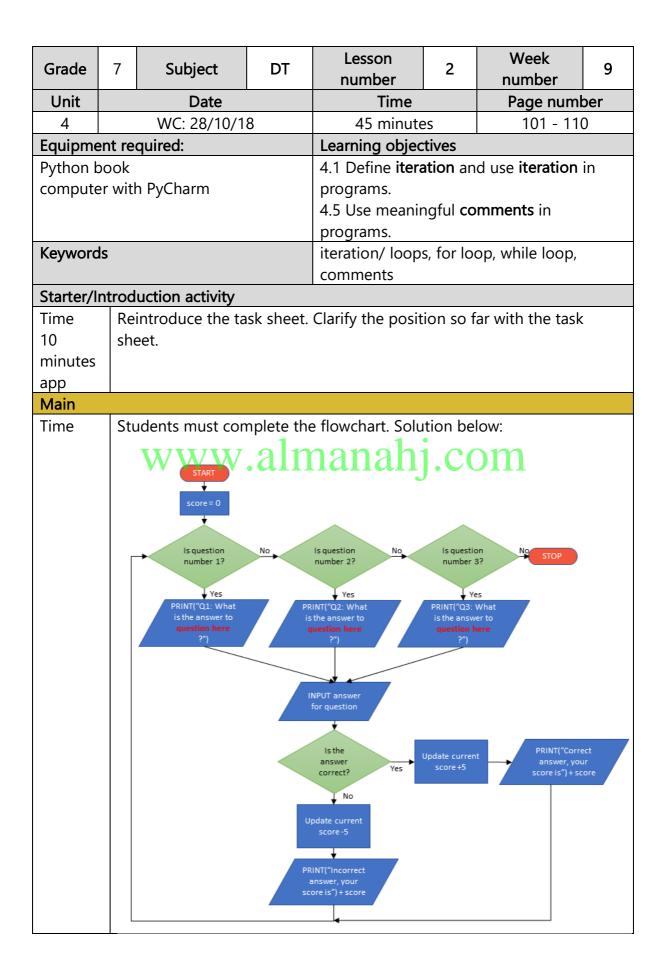
What will the input text say?	input("Enter your age") input("Enter the current year")
Write the whole code below	
age = input("Enter your age:") age = int(age)	
year = input("Enter the current year = int(year)	year:")
age = age + 1 year = year + 1 print("year is ", year, "age is ", a Repeated 4 more times	age)
Write this code in a new Pytho If your code did not work, try to	
errors are. Check for any red lir	es in your code Iananj.com
Write the lines of code that are age = age + 1	e repeated.
year = year + 1	
print("year is ", year, "age is ", a	age)
	code for the same problem using a fo
Part B asks the students to write loop. Solution below: age = input("Enter your age:") age = int(age)	code for the same problem using a fo
loop. Solution below: age = input("Enter your age:")	
loop. Solution below: age = input("Enter your age:") age = int(age) year = input("Enter the current y year = int(year) for num in range(1, 6, 1): age = age + 1	
loop. Solution below: age = input("Enter your age:") age = int(age) year = input("Enter the current y year = int(year) for num in range(1, 6, 1):	/ear:")

the co	2. Teacher to discuss with the students how this is more efficient than ode from Part A. Why do we use a for loop? ave a set number of times we want to loop. We can specify this in a for						
Part D	D. Can we use a while loop? Answer is <mark>yes</mark> .						
	Part E. Student write code for the same problem using a while loop. Solution below:						
_	input("Enter your age : ") int(age)						
	= input("Enter the current year : ") = int(year)						
count	:= 1						
while	(count < 6):						
age	e = age + 1 ar = year + 1W.almanahj.com						
yea	$r = Vyean + 1V \cdot all lall all j \cdot COIII$						
-	nt("year is ", year, "age is ", age) Int = count + 1						
Plenary							
Time	Activity to compare using normal code instead of using a for or while loop. Which is a better option: a for or while loop? Provide the students with some simple code or problems for this task.						
	Summarise the lesson by recapping the learning objectives and the key						
	vocabulary used throughout. Students should complete any activities						
	not completed in class as homework.						
Assessmen	To know how to write a while loop and why using loops is more						
t focus	efficient						
Learning Curve	The entire course plus specific instructional videos are available on Learning Curve via this link (USE bit.ly):						
34.10	https://learningcurve.moe.gov.ae/en/default/Course#/view/2280/false						
	/2335/CourseMap/Session/View/78c627fd-d286-4b10-9595- 62d32de23aef						
	The access code is:						

Grade	7 Subject	DT	Lesson number	3	Week number 8	
Unit	Unit Date		Time		Page number	
4 WC: 21/10/18		45 minutes	45 minutes 98 - 100			
Equipment ree	quired:		Learning objectives			
Python book			4.4 Identify the imp code.	orta	nce of commenting in	
			4.5 Use meaningful	com	nments in programs.	
Keywords			iteration/ loops, for	loo	p, while loop	
Starter/Introd	uction activity					
Time	Recap the	uses c	of for and while loops	and	d why loops are	
10 minutes ap	pp important	in a p	rogram.			
Main						
Time	important. Demonstra it starts wir without it Activity 5: Students e the teacher solution sh Activity 6: Students v	ate ho th a ha affecti explain er shou nould o	w to write code in a p ash #. After this you c ng the code	brog an v base ude comi	ed on the comments; nts in this task. The ments in the code.	
	This code	fine as long as they explain the code. This code can also be typed with the comments into a after the students complete it on paper.				
Plenary		laacin		<u>.</u>		
Time		•	•		y it's good practice to inning of a program.	
	the key vo	Summarise the lesson by recapping the learning objectives a the key vocabulary used throughout. Students should compl any activities not completed in class as homework.				

Assessment	To understand the importance of commenting and how to do					
focus	this in code					
Learning Curve	The entire course plus specific instructional videos are available					
	on Learning Curve via this link (USE bit.ly):					
	https://learningcurve.moe.gov.ae/en/default/Course#/view/2280					
	/false/2335/CourseMap/Session/View/78c627fd-d286-4b10-					
	<u>9595-62d32de23aef</u>					
	The access code is:					

	v	vhile (num > 0): print(num)			
		num = num - 1			
Students then start on the unit task sheet. The task must be explained by the teacher. Stress that the work pl must be ticked as each task is completed.					
Plenary	Stude	ents should have started the flowchart by the end of the lesson.			
Time		Summarise the lesson by recapping the learning objectives and the key vocabulary used throughout.			
Assessme focus	nt	To clarify understanding of Unit 4			
Learning Curve		The entire course plus specific instructional videos are available on Learning Curve via this link (USE bit.ly): https://learningcurve.moe.gov.ae/en/default/Course#/view/2280 /false/2335/CourseMap/Session/View/78c627fd-d286-4b10- 9595-62d32de23aef			



	They must then complete the planning table for the code. Solution below: What variable names do you need? score						
M	/hat variable names do you need?						
	/hich keyword will you use to ask ne user for an input?						
	/hich keyword will you use to utput the message and score?	print()					
u	/hich operator will you use to add p and deduct the value from the core?	o add + (add)					
	/hich loop will you use for this rogram? Why?	For loop, because we want it to loop 3 tim					
N N	/rite down the 3 questions you will	ask and the answers					
	uestions		Answers				
	1. Any questions and answers ar	aing.com					
	2.						
	3.						
Plenary							
Time	Complete any outstanding work f	or homework.					
Assessment focus	To clarify understanding of Unit 4						
Learning Curve	The entire course plus specific instructional videos are available on Learning Curve via this link (USE bit.ly): https://learningcurve.moe.gov.ae/en/default/Course#/view/2280/fal se/2335/CourseMap/Session/View/78c627fd-d286-4b10-9595- 62d32de23aef The access code is:						

Grade	7 Subject	DT	Lesson number	3	Week number	9	
Unit	Date	Ti	me	F	Page number		
4 WC: 28/10/18		45 m	inutes		101 - 110		
Equipment	required:	Learning ob	jectives				
Python boo	ok	4.1 Define it	teration and use it	teratio	n in programs.		
computer v	with PyCharm	4.5 Use mea	aningful comment	: s in pr	ograms.		
Keywords		Iteration / lo	oops, for loop, wh	ile loo	p, comments		
Starter/Intr	oduction activi	ty					
Time	Reintroduce th	e task sheet.	Clarify the positic	on so fa	ar with the task		
10	sheet.						
minutes							
арр							
Main							
арр							

[
		answer = int(answer)						
		if (answer == 16):						
	score = score + 5							
		print("Correct answer, your score is", score)						
		else:						
	score = score - 5							
		print("Incorrect answer, your score is", score)						
	if (question == 3):						
		print("Q3: What is the answer to 4 x 9?")						
		answer = input("Enter your answer for Q3: ")						
		answer = int(answer)						
		if (answer == 36):						
		score = score + 5						
		print("Correct answer, your score is", score)						
		else:						
		score = score - 5						
		print("Incorrect answer, your score is", score)						
	-	will then complete the testing and debugging table and evaluate the						
	task.	www.almanahj.com						
	Chec	k that all students have completed the work steps.						
Plenary								
Time		Complete any outstanding work for homework.						
Assessm	nent	To clarify understanding of Unit 4.						
focus								
Learning	3	The entire course plus specific instructional videos are available on						
Curve		Learning Curve via this link (USE bit.ly):						
		https://learningcurve.moe.gov.ae/en/default/Course#/view/2280/fal						
		se/2335/CourseMap/Session/View/78c627fd-d286-4b10-9595-						
		62d32de23aef						
		The access code is:						

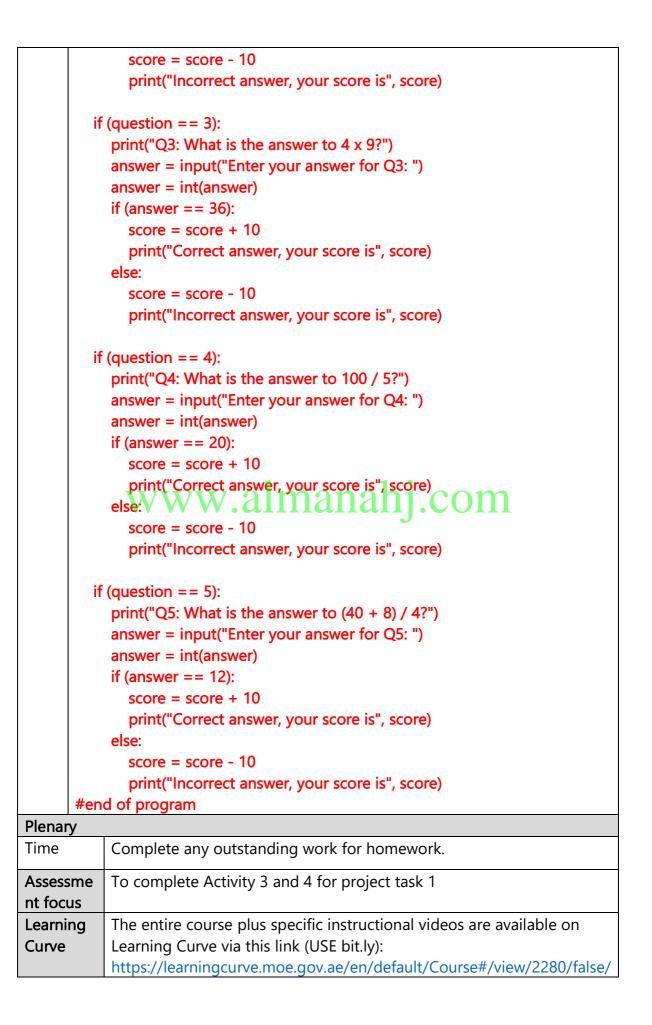
Grade	7	Subject	DT	Lesson number	1	Week number	10			
Unit		Date		Time Page number						
5		WC: 18/11/18		45 minute	S	114 - 12	2			
Equipmen	nt requi	red:		Learning object	ctives					
Python bc	ook			 5.1 Apply skills from previous units to produce two programs. 5.2 Produce programs that can perform different calculations from the user inputs. 5.3 Employ the use of comments meaningfully in your code. 						
Keywords										
		ion activity								
Time 10 minutes app	Use p	bages 114-116	to introc	luce the final ur	nit and	the project tas	k.			
Main										
Time	first t final t alread Stude Solut Projution Writt the outp Answ prog the s	 Explain that there are two-project tasks that hold different marks. The first three lessons will focus on task 1. This task is an extension of the final task for Unit 4. Students can use the code and material they already have and adapt this for the project task. Students should complete tasks 1 and 2 by the end of the lesson. Solution for Activity 1. Project Brief Write 2-3 sentences to summarise what this project task is about. Consit the purpose of the program, the calculations that will be done and the output. Answer: Create a quiz that will ask five mathematical questions. The program will update the user's score after every question. +10 is added the score if the answer is correct and -10 is taken from the score if the answer is wrong. The score will be displayed, with a message, after every 								
	Solut Refer	1 mark for summarising what the program will doSolution for Activity 2:Refer to the flowchart for the task sheet in Unit 4; this is an extension of								
Plenary	that a	activity.								

Time	Complete any outstanding work for homework.
Assessment	To complete Activities 1 and 2 for project task 1
focus	
Learning	The entire course plus specific instructional videos are available on
Curve	Learning Curve via this link (USE bit.ly):
	https://learningcurve.moe.gov.ae/en/default/Course#/view/2280/f alse/2335/CourseMap/Session/View/78c627fd-d286-4b10-9595- 62d32de23aef
	The access code is:

Grade	e 7	Subject	DT	Lesson number	2	Week number	10								
Unit		Date		Time	Time Page numl										
5		WC: 18/11/1	8	45 minι	ites	114 - 12	2								
Equipn	nent requ	ired:		Learning ob	ectives										
Pythor	n book			5.1 Apply sk	ills from	previous units to)								
				produce two	o prograr	ns.									
						s that can perfo									
						from the user ir	nputs.								
				5.3 Employ t											
				meaningfull											
Keywo	rds					ams, variables, da	ata								
				types, comm	ients, loc	ps, operators									
		tion activity													
Time		ecap what ha	s been d	one so far in	Activities	1 and 2.									
10 min	utes														
арр															
Main Time						3) and then writ									
	Solution	for Activity 3:													
	What va	riable names	do you i	need? score											
				quest	ion										
		eyword will y for an input?		o ask input	input()										
		eyword will y the message a		•	()										
	Which c	perator will y	ou use t	o add 🛛 + (ad	d)										
	up and score?	deduct the va	lue from	the <mark>- (sub</mark>	otract)										
	Which le	oop will you ι	use for th	nis For lo	op, beca	use we know we	only								
	Write do						program? Why? want it to loop 5 times.								
		own the 5 que	estions y	ou will ask an	d the ans	swers.									

```
1. Any questions and answers are fine
    2.
    3.
    4.
    5.
Solution for Activity 4:
#score is set to 0 outside of the loop
score = 0
#start for loop to run 5 times
for question in range(1, 6, 1):
#check the current loop using the question variable
#select the correct question and answer based on the question value
  if (question == 1):
     print("Q1: What is the answer to 5 - 3?")
     answer = input("Enter your answer for Q1: ")
     #convert inputted answer to an integer
     answer = int(answer)
     #check if answer is correct and increase or deduct points
     if (answer == 2):
       score = score + 10
       print("Correct answer, your score is", score)
     else:
       score = score - 10
       print("Incorrect answer, your score is", score)
  if (question == 2):
     print("Q2: What is the answer to 10 + 6?")
     answer = input("Enter your answer for Q2: ")
     answer = int(answer)
     if (answer = = 16):
       score = score + 10
       print("Correct answer, your score is", score)
```

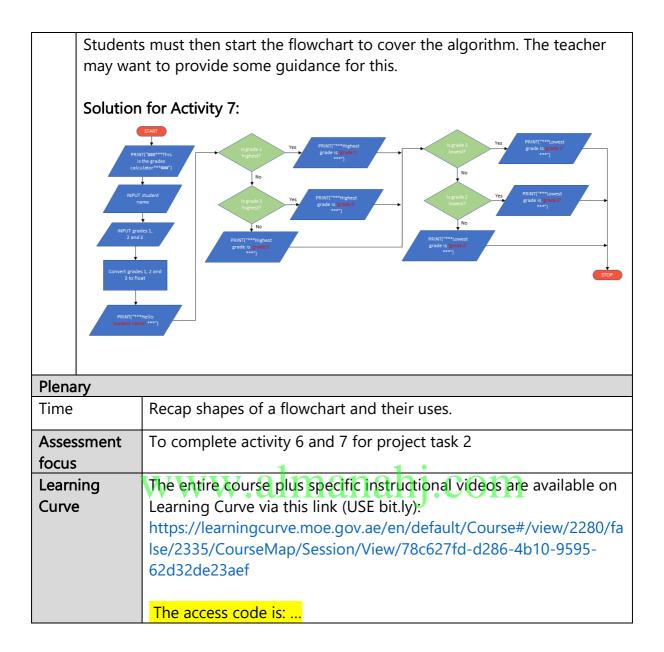
else:



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The access code is:

Gra	ade	7	Subject	DT	Lesson number	3	Week number	10	
U	nit		Date		Time		Page num	nber	
	5 WC: 18/11/18		45 minutes 114 - 122						
Equi	pmen	t requ	uired:	Lear	ning objectives				
Pyth	on bo	ok		5.1	Apply the skills fro	om pre	vious units to p	roduce	
computer with PyCharm				5.2 calc 5.3	 two programs. 5.2 Produce programs that can perform different calculations from user inputs. 5.3 Employ the use of comments meaningfully in your code. 				
Кеуч	words				r interface, progra iments, loops, op		51	es,	
Start	ter/Int	roduc	ction activity						
Time 10 m app	e ninute	S	Recap what	has b	een done so far ii	n Activi	ties 1-4.		
Mair	า								
Ti me	Ti Students have written the code for their programs. Now, they will enter this								
	Stud Teac		-		o the evaluation o				
Plen				[
Time	5			Con	nplete any outsta	nding v	vork for homew	ork.	
Asse	essmei	nt foc	us	To c	complete Activity	5 for p	roject task 1		
Assessment focus Learning Curve					The entire course plus specific instructional videos are available on Learning Curve via this link (USE bit.ly): https://learningcurve.moe.gov.ae/en/default/Course #/view/2280/false/2335/CourseMap/Session/View/7 8c627fd-d286-4b10-9595-62d32de23aef The access code is:				

Grade	7	Subject	:	DT	Lesson number	1	Week number	11	
Unit		Date		Time Page number					
5	,	WC: 25/11/1	8	45	minutes		123 - 129		
Equipme	ent re	equired:	Lear	ning ob	jectives				
Python k		prog 5.2 l calc	 5.1 Apply skills from previous units to produce two programs. 5.2 Produce programs that can perform different calculations from the user inputs. 5.3 Employ the use of comments meaningfully in your 						
Keyword	s				ce, programs,		, data types,		
<u> </u>				iments, l	oops, operat	ors			
		duction activ			100				
e 10 min utes app Main Th	Introduce project task 2 on page 123. WWW.almanahj.com The structure of project task 2 follows the same pattern as project task 1.								
in	trodu	nts must answuction. Soluti		-	based on the	e algorithr	n covered in the	e	
t. A s s	ask. (nsw nter tude ubje mar	Consider what er: Create a g grades for 3 nt's name ar cts. Formatti	at the grade subj nd the ng wi	e program calculat ects. The averag ill be use g the pro	m will do and tor that will a e program wi e highest and ed in the outp	how it w sk for the ll calculate d lowest g out as disp	do for this proje ill output the re student's name e and display th rade for the 3 blayed above.	sults. and	



Grade	7	Subject	DT	Lesson number	2	Week number	11			
Unit		Date		Time Page			ber			
5		WC: 25/11/18	3	45 minutes		123 - 12	9			
Equipm	ent re	equired:	L	earning objectives	5					
Python	book		t 5 d 5	 5.1 Apply skills from previous units to produce two programs. 5.2 Produce programs that can perform different calculations from the user inputs. 5.3 Employ the use of comments meaningfully in your code. 						
Keywor	ds			ser interface, prog omments, loops, c		-	ypes,			
Starter/	Intro	duction activit	y							
Time	R	ecap flowchar	t from pr	evious lesson and	which	shapes to use.				
10										
minutes	5									
арр				manah	10	0111				
	^ <u>+</u> d.o.									
Main Contraction Time Students to complete the flowchart for Activity 7. Solution for Activity 7: Image: Contract of the state o										
	Solution for Activity 8:									

What variable names do studentName						
you need? subject1, subject2, subject3						
	averageGrade					
highest						
lowest						
Which keyword will you input()						
use to ask the user for an						
input?						
Which keyword will you print()						
use to output the message						
and score?						
Which operators will you + (add)						
use to calculate the / (divide)						
average grade?						
How should the title look? ###***This is the grades calcul						
How should the title look? ###***This is the grades calcul	ator***###					
Write down the 3 subjects you will ask the grades for						
Subjects: Any subjects are fine						
1. DT						
2. Mathematics						
3. English						
Plenary						
Time Complete any outstanding work for homework.						
AssessmentTo complete Activities 7 and 8 for project task 2						
focus						
Learning The entire course plus specific instructional videos ar	e available on					
Curve Learning Curve via this link (USE bit.ly):						
https://learningcurve.moe.gov.ae/en/default/Course#	[‡] /view/2280/fal					
se/2335/CourseMap/Session/View/78c627fd-d286-4	b10-9595-					
62d32de23aef						

Grade	7	Subject	DT	Lesson number	3	Week number	11
Unit		Date		Time	Page number		
5	W	C: 25/11/18	4	5 minutes		123 - 129	
Equipment	t requ	uired:	Learnir	ng objectives			
Python bo	ok		 5.1 Apply skills from previous units to produce two programs. 5.2 Produce programs that can perform different calculations from user inputs. 5.3 Employ the use of comments meaningfully in your code. 				rent
Keywords			user in	terface, program	ns, var	iables, data type	s,
			comm	ents, loops, oper	ators		
Starter/Int	roduc	ction activity					
Time 10 minutes app		• •	-	-	All stu	dents should ha	ve
Main							
Time	su the So #P pri #a stu #a su su su su su su su	Clarify position of the project task so far. All students should have completed up to and including Activity 8. Students will start writing the code in the book. The teacher can support students with this but must allow the students to complet the bulk of the code on their own. Solution for Activity 9: #Prints a title heading for the program print("###***This is the grades calculator***###") #ask student for their name studentName = input("Enter your name") #ask student for grade of subject 1 subject1 = input("Enter your grade for DT") subject1 = float(subject1) #ask student for grade of subject 2 subject2 = input("Enter your grade for Mathematics") subject2 = float(subject2) #ask student for grade of subject 3 subject3 = input("Enter your grade for Biology") subject3 = float(subject3) #print message to the user					

[]	print("***Hello", studentName, "***")						
	print(and helio, studentivarile, and)						
	#calculate grades average						
	averageGrade = (subject1 + subject2 + subject3) / 3						
	print("***Your average grade is", averageGrade, "***")						
	#ealeylate bighest grade						
	<pre>#calculate highest grade if(subject1 >= subject2) & (subject1 >= subject3) :</pre>						
	highest = subject1						
	elif(subject2 >= subject1) & (subject2 >= subject3):						
	highest = subject2						
	else:						
	highest = subject3						
	print("***Highest grade is", highest, "***")						
	print(righest grade is , nighest,)						
	#calculate lowest grade						
	if(subject1 <= subject2) & (subject1 <= subject3):						
	lowest = subject1						
	elif(subject2 <= subject1) & (subject2 <= subject3):						
	lowest = subject2 else/						
	lowest = subject3						
	lowest – subjects						
	print("***Lowest grade is", lowest, "***")						
Plenary							
Time	Complete any outstanding work for homework.						
Assessment	To start writing code for Activity 9						
focus							
Learning	The entire course plus specific instructional videos are available on						
Curve	Learning Curve via this link (USE bit.ly):						
	https://learningcurve.moe.gov.ae/en/default/Course#/view/2280/fal						
	se/2335/CourseMap/Session/View/78c627fd-d286-4b10-9595- 62d32de23aef						
	The access code is:						

Grade	7 Subject	DT	Lesson number	1	Week number	12
Unit	Date		Time			
5	WC: 2/12/18		45 minutes		123 - 129	
Equipment	t required:	Learn	ing objectives			
Python bo	ok	 5.1 Apply skills from previous units to produce two programs. 5.2 Produce programs that can perform different calculations from user inputs. 5.3 Employ the use of comments meaningfully in your code. 				
Keywords			nterface, programs ients, loops, opera		ables, data types,	
Starter/Int	roduction activity					
Time 10 minutes app	Clarify position of the project task so far. All students have started writing the code for Activity 9.					
Main						
Time						

· · · · · ·							
	print("***Hello", studentName, "***")						
	#calculate grades average						
	averageGrade = (subject1 + subject2 + subject3) / 3						
	print("***Your average grade is", averageGrade, "***")						
	#calculate highest grade						
	<pre>if(subject1 >= subject2) & (subject1 >= subject3) : highest = subject1</pre>						
	elif(subject2 >= subject1) & (subject2 >= subject3):						
	highest = subject2						
	else:						
	highest = subject3						
	print("***Highest grade is", highest, "***")						
	#calculate lowest grade						
	if(subject1 <= subject2) & (subject1 <= subject3):						
	lowest = subject1						
	elif(subject2 <= subject1) & (subject2 <= subject3):						
	lowest = subject2						
	else WW.allialialij.COIII						
	lowest = subject3						
	print("***Lowest grade is", lowest, "***")						
Plenary							
Time	Complete any outstanding work for homework.						
Assessmen	To finish writing code for Activity 9						
focus							
Learning	The entire course plus specific instructional videos are available on						
Curve	Learning Curve via this link (USE bit.ly):						
	https://learningcurve.moe.gov.ae/en/default/Course#/view/2280/f						
	se/2335/CourseMap/Session/View/78c627fd-d286-4b10-9595-						
	62d32de23aef						
	The access code is:						

Grade	7	Subject	DT	Lesson number	2	Week number	12		
Unit		Date		Time Page number			ber		
5		WC: 2/12/18	45 minutes 123 - 129			9			
Equipment	requi	red:		Learning objectives					
Python boo	ok			5.1 Apply skills	from	previous units t	о		
computer v	with P	yCharm		produce two programs .					
				5.2 Produce programs that can perform					
				different calculations from user inputs.					
				5.3 Employ the	e use o	f comments			
				meaningfully in your code.					
Keywords				user interface,	progra	ams, variables, c	lata		
				types, commer	nts, loc	ops, operators			
Starter/Intr									
Time				ject task so far.	Studer	nts type their co	de		
10 minutes	into	PyCharm tod	ay.						
арр									
Main									
Time	Solu #Pr prir #as stud #as sub sub sub #as sub	Students type their code into PyCharm ready for testing next lesson. Solution for Activity 9: #Prints a title heading for the program print("###***This is the grades calculator***###") #ask student for their name studentName = input("Enter your name") #ask student for grade of subject 1 subject1 = input("Enter your grade for DT") subject1 = float(subject1) #ask student for grade of subject 2 subject2 = input("Enter your grade for Mathematics") subject2 = float(subject2) #ask student for grade of subject 3 subject3 = input("Enter your grade for Biology") subject3 = float(subject3)							

	print("***Hello", studentName, "***")							
	#calculate grades average							
	averageGrade = (subject1 + subject2 + subject3) / 3							
	print("***Your average grade is", averageGrade, "***")							
	#calculate highest grade							
	f(subject1 >= subject2) & (subject1 >= subject3) :							
	highest = subject1							
	elif(subject2 >= subject1) & (subject2 >= subject3):							
	highest = subject2 else:							
	highest = subject3							
	print("***Highest grade is", highest, "***")							
	#coloulate lowest grade							
	<pre>#calculate lowest grade if(subject1 <= subject3):</pre>							
	lowest = subject1							
	elif(subject2 <= subject1) & (subject2 <= subject3):							
	lowest = subject2 elser WW.almanahj.com							
	lowest = subject3							
	print("***Lowest grade is", lowest, "***")							
Plenary								
Time	Complete any outstanding work for homework.							
Assessment	To type code into PyCharm for activity 9.							
focus								
Learning	The entire course plus specific instructional videos are available on							
Curve	Learning Curve via this link (USE bit.ly):							
	https://learningcurve.moe.gov.ae/en/default/Course#/view/2280/fal							
	se/2335/CourseMap/Session/View/78c627fd-d286-4b10-9595-							
	62d32de23aef							
	The access code is:							

Grade	7	Subject	DT	Lesson number	3	Week number	12	
Unit		Date		Time Page number			ber	
5		WC: 2/12/18		45 minutes 128 - 130				
Equipment required:				Learning objectives				
Python bo	ok			5.1 Apply skills from previous units to				
computer with PyCharm				produce two programs .				
				5.2 Produce programs that can perform				
			different calculations from user inputs.					
				5.3 Employ the use of comments				
Konwondo				meaningfully in your code.				
Keywords				user interface, programs, variables, data types, comments, loops, operators				
Starter/Int	roduc	tion activity		types, commer	115, 100	ops, operators		
Time	1		f the pro	oject task so far.	Stude	ents will test the	ir	
10 minutes		ode today.			Juut			
app		ae today.						
Main								
Time	te N th ar Th 12 St	Students run their code from last lesson and test it against the given test table. Students get 1 mark for each test completed. Note: As long as students have identified that they need to correct the code, they will still get a mark even if they have tested the code and the result is not correct. The teacher marks the project task against the evaluation on page 129. Students evaluate their work using the evaluation table on page 130. 1 mark for each section evaluated.						
Plenary								
Time	C	Complete any o	utstandi	ng work for hor	newor	·k.		
Assessmer focus	nt T	To test code from Activity 9 and complete the evaluation						
Learning Curve	L h s	The entire course plus specific instructional videos are available on Learning Curve via this link (USE bit.ly): https://learningcurve.moe.gov.ae/en/default/Course#/view/2280/fal se/2335/CourseMap/Session/View/78c627fd-d286-4b10-9595- 62d32de23aef The access code is:						