Choose a total of <u>20</u> points per half term		YEAR 9 COMPUTING HOMEWORK TASKS – SPRING TERM 1				
Reinforce:         • Go online to https://student.craigndave.org/ Find the video entitled, OCR GCSE SLR2.2 The common arithmetic operators         Make a one-page revision sheet to help Year 9 students understand the different arithmetic operators used in programming. Try and give examples, written in Python syntax         20	<ul> <li>Wider Read:</li> <li>Find out more about Graphical and Text based programming languages</li> <li>Explain the main differences between the two</li> <li>Name 2 examples of each, e.g. Python is a text based programming langauage</li> </ul>	Find out the meaning of these Key Terms: 10 Flowchart Pseudocode Decomposition Abstraction Variable	Reinforce:         • Go online to https://student.craigndave.org/ Find the video entitled, OCR GCSE SLR2.2 The use of the three basic programming constructs         Make a one-page revision sheet to help Year 9 students understand the 3 main buildings blocks used in programming         Image: Description of the programming programming			
	Challenge: Complete an hour of code fromHOUR CODEhttps://code.org/learn. Screen snip your final screen, game code or certificate as proof20	<ul> <li>Challenge: Draw a flowchart to represent the throwing of a dice with the <u>aim</u> of scoring a 6.</li> <li>Use programming flowchart symbols</li> </ul>				
Quiz:	Quiz:	External storage options: Complete the table				
<ul> <li>What is a computer bug?</li> <li>Where did the term 'computer bug' first originate from?</li> <li>How does a bug differ from a computer virus?</li> </ul>	What are <b>Triple Quotes</b> (in Python)? Give an <b>example</b> of how they might be used	Storage OptionUSB/Memory StickCDs and DVDsExternal Hard DriveOnline or Cloud Based	Image	Advantages	Disadvantages	20
<ul> <li>Quiz: 10</li> <li>What is the difference between a local backup and a remote backup?</li> <li>Why is it essential that a large</li> </ul>	Challenge: • Install the latest version of Python on your home PC (ask for permission first!) Python	all the latest version of Python on home PC (ask for permission first!)       1. What is meant by the term, cracking?       examples to compare expressions to a True or False value, e.g.         2. What is a brute force attack?       a=3, b=7       a==b				
company back up their data daily? Challenge: • Find out more about ASCII Art • Convert an image into colour or monochrome ASCII Art at www.ascii-art-generator.org/ */////*	All <b>tasks</b> should be <b>evidenced</b> by screen snipping, or uploading to your OneNote exercise book (into the Homework section). If you need to submit your homework on paper, you will need to collect a homework exercise book from	<ol> <li>What is a dictionary attack?</li> <li>Name two types of password protection</li> <li>Give an example of a very strong password. <u>Test it out</u> at: https://howsecureismypass word.net/</li> </ol>	Equal to	Boolean Equivaler =		'n
			Does not equal AND OR	<> AND OR	and or	
	your teacher	20	NOT	NO	not	