Choose a total of <u>20</u> points per half term	**YEAR 9 COMPUTING HOMEWORK TASKS – SPRING TERM 2**

Reinforce:
- Go online to **https://student.craigndave.org/** Find the video entitled, *OCR GCSE SLR1.7 The purpose and functionality of systems software*

Make a **one-page revision sheet** to help Year 9 students consider the role of systems software in providing a **user interface**. Try and give examples   **20**

Wider Read:
- Who was **George Boole**?
- Why was his work considered **important** in the development of computing?

Make a **one-page fact sheet** to share with the class. Remember to quote your sources of information   **20**

Challenge:
Complete an **hour of code** from **https://code.org/learn**. Screen snip your final screen, game code or certificate as **proof**   **20**

Find out the meaning of these **Key Terms:**

Debugging
Stepping
Syntax Error
Logical Error
Runtime Error

10

Reinforce:
Create a **Help** Guide to support students using **Python IDLE** for the first time   **20**

Reinforce:
- Go online to **https://student.craigndave.org/** Find the video entitled, *GCSE SLR2.2 The use of data types and casting*

Make a **one-page revision sheet** to help Year 9 students understand how **variables** are **stored** in memory and how their data type can be changed   **20**

Quiz: **10**
- What is meant by the term: **embedded computers**?
- Name **4 examples** of digital devices that contain embedded systems

Reinforce:
- **Summarise** a topic covered in class in 140 characters or less
- Write a **quiz** (with answers) on a topic covered in class this half term   **20**

Wider Read:
- What is the **difference** between a **Compiler** and an **Interpreter**?
- What are the **advantages** and **disadvantages** of using each type?
You could start by watching the video at:
    www.youtube.com/watch?v=_C5AHaS1mOA   **20**

Quiz: **10**
- What is **hardware**?
- What is **software**?
- What are the main **categories** of software?

Challenge: **20**
Work through the **exercises** for Python **Functions** at:
www.w3schools.com/python/ python_functions.asp
Snip examples of completed code

w3schools.com

Challenge:
- **Install** the latest version of **Python** on your **home PC** (ask for permission first!)   **20**

All **tasks** should be **evidenced** 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 your teacher.

Wider Read:
Carry out some research to find out about the **5 generations of computers** in history. Present your work in *any* digital format you prefer   **20**

Reinforce:
- What will **output** on the screen when the following Python code is executed?

1	print("He"+"llo"+"world!")
2	Print("Hello World")
3	print("Coff"+"ee and Tea" *5)
4	print('The answer is', 8*2,'biscuits')

Quick Question: **10**
- In computing terms, what is the difference between the data values **2** and **"2"**?