**How Computers Work – End of unit Evaluation**

**Points to include in your evaluation:**

1. Purpose of How Computers Works Unit (*To understand and learn about computer components, CPU & RAM and basic programming principles using Logic Gates and Truth Tables and being able to code a Full Adder in Python* .)
2. What went well? (WWW)
3. Even Better If… (EBI)
4. Reflection - What could you improve? How/Why/Work Ethics/Targets?

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| --- | --- |
| **Take a screenshot of your progress ladder table and the graph and replace the 2 examples below:** | |
| A screenshot of a social media post  Description generated with very high confidence | |
|  | |
| **Data and Data Representation**   * Students recognises different types of **data**: text, numbers. Appreciates that programs can work with different types of data. (binary, variables in Python) * Students recognise that data can be structured in **tables** to make it useful. (Truth Tables) * Studnets performs more complex searches for information e.g. using **Boolean** and relational **operators**. (Using if statements and linear search) * Students analyse and evaluates **data** and **information**, and recognise that poor quality data leads to unreliable results, and inaccurate conclusions. | |
| WWW:  EBI: | |
| **Hardware and Processing:**   * Student understands why and when **computers** are used. Understands the main functions of the **operating system**. * Students recognise and understand the function of the main internal parts of basic **computer architecture.** Understand the concepts behind the **fetch-execute** cycle. * Students understand how data is stored in **memory**. Understands the basic function and operation of location addressable memory. (How does data get stored in RAM and hard drives) | |
| WWW:  EBI: | |
| **Programming and Development:**   * Students will understand that programs run by following a sequence of **instructions**. * Students will make use of: arithmetic operators, **if** statements, and **loops** within their programs. * Students will be able to declare and assign **variables** and **lists**. (Using Python to make logic gates) * Students will develop understanding of structured programming using **functions**. | |
| WWW:  EBI: | |
| **Literacy:**   * Students will use **correct grammar**, **punctuation** and **spelling** of keywords throughout this project. | |
| WWW:  EBI: | |
| **Information Technology:**   * Students will **create**, **store** and **edit** **digital content** using appropriate file and folder names. * Students will talk about their work and make improvements to solutions based on feedback received (BTL). * Students will use a variety of software **to manipulate and present digital content**. (Python, Snipping tool, Paint, Word & BTC) * Students will show an awareness for the quality of digital content collected. (Images used in presentations) | |
| WWW:  EBI: | |
| **Reflection/Work Ethics/Targets:** | |
| **Grading of your work – Badges** | **Y/N** |
| **Bronze:** Evaluated all learning strands of this unit but briefly. |  |
| **Silver:** Evaluated all learning strands of this unit with WWW and EBI on all strands. |  |
| **Gold:** Evaluated all learning strands with WWW and EBI on all strands with good use of punctuation, spelling & grammar. |  |
| **Platinum:** All the above, and included a self-reflection on work ethics. |  |