

PRODUCTIVITY & CREATIVITY



- **Moodboard** is an arrangement of images, materials, pieces of text, etc. intended to evoke or project a particular style or concept.
- **Evaluation** is the making of a judgement.
- A **Logo** is a symbol or other small design adopted by an organisation to identify its products, uniform, vehicles, etc
- **Software** is a selection of programs and other operating information used by a computer.

PROGRAMMING



- **Scratch** is a free programming language and online community where you can create your own interactive stories, games and animation.
- A **conditional statement** in coding tells a program to execute different actions depending on whether a condition is true or false.
- **Flowcharts** in **Scratch** can be used to program real life objects such as a digital clock.

INSPIRATIONAL PEOPLE



- **Elon Musk** was born on the 28th June 1971 in South Africa. Musk is the current CEO of Solar City, a company that makes solar panels, and the CEO of **SpaceX**, an aerospace company and CEO & Chief Product Architect of **Tesla Motors**, a company that makes electric vehicles. Some of the electric vehicles have an autopilot function which allows the car to self-drive.
- **Annie Easley** (1933-2011) is an African-American computer scientist that worked for NASA. She started her long career as a 'human computer', completing calculations by hand. As one of the **inspirational women** in tech history, Annie overcame discrimination against both her gender and her race. She adapted to the introduction of computers, learning both the assembly and programming language she needed. This allowed her to continue her career as a programmer.

SAFE & RESPONSIBLE USE



- **AI** – Artificial Intelligence. Computing application has many ethical implications on society particularly safety and what is right and wrong. Can a computer judge and think like a human?
- **Example of AI**—Google, Tesla and many other car manufacturers are currently working on self-driving cars.
- **Verification** is the process of establishing the truth, accuracy, or validity of something.

Key vocabulary and meanings

***Coding** is a skill where you take instructions (the steps in a task) and translate it into a language the computer understands. They communicate in a language called BINARY. Coders write the instructions using a programming language.

***Binary** is a number system that only uses two digits — 0 and 1. Computers operate in binary, meaning they store data and perform calculations using only zeros and ones.

Flowchart is a diagram of the sequence of movements or actions of people or things involved in a complex system or activity.

Specification means a detailed description of the design and materials used to make something.