

DT Y8 CYBERGLASSES VOCABULARY

Tools & Components

Soldering Iron: A tool that heats up to melt solder wire, used to join electronic components.

Solder Wire: A metal wire that melts easily and is used to connect parts on a circuit board.

Circuit Board: A flat board that holds and connects electronic components.

Resistor: A small component that limits the flow of electricity in a circuit.

LED (Light Emitting Diode): A small light that turns on when electricity flows through it.

Switch: A device that opens or closes a circuit to turn something on or off.

Design & Manufacturing

CAD (Computer-Aided Design): Software used to create detailed 2D or 3D designs on a computer.

CAM (Computer-Aided Manufacturing): Software that controls machines to make products based on CAD designs.

Design Concepts

Intricate: Something that is very detailed or complex.

Ergonomics: Designing products so they are comfortable and easy to use.

Anthropometrics: The study of human body measurements used in design (e.g., height, hand size).

Materials

Plastic: A man-made material that can be shaped when soft and hardens when cooled.

Polymer: A large molecule made of repeating parts; plastics are a type of polymer.

Thermosets: Plastics that harden permanently when heated and can't be reshaped.

Thermoplastics: Plastics that can be melted and reshaped many times.