Year 8 Revision Design and Technology

Systems & Control
Investigation into Electronic Components and Circuit Symbols
Ohms law, Resistance and Resistor Colour Code
Soft Solder Process and safe working practices
Systems Approach - Input / Process / Output
Digital vs Analogue Inputs and how to program them
High and low power outputs
Microcontroller - Purpose, pinout and uses
Programming - Flowcharts common command boxes
Fault diagnosis and remedies

Resistant Materials
Evaluation of similar product
How to create a Specification
Finishes to protect and preserve metals
Mechanical and physical properties
Metalwork hand tools and uses
Heat forming processes - metals
Permanent and temporary joints
Ferrous and non-ferrous metals