

# ELECTRONIC PRODUCTS

Design Specifications (yr10)

Input Process Output systems approach.

Designing cases. (yr10)

Testing Products (yr10)

Recycling electronic products (yr10)

Basic components and what they look like and do.

Circuit symbols.

Series and parallel circuits

Diodes and polarity

DILs and SILs (yr10)

Logic Gates

Sensors eg thermistors or LDRs how they work (resistance changes)

Potential dividers – uses. How to combine with sensors

Astable circuits.

Calculating Astable frequency

Rules for drawing PCB masks. Drawing PCB masks. Quality of drawing.

PCB manufacturing

Prototyping including Stripboard (veroboard)

RC Networks & Calculations of time delays.

Resistors –uses and types. Units of measure (Ohms).

Social, Moral and cultural considerations of electronic products (yr10)

Programming PICs (microcontrollers) (yr10)

## EXAM TIPS

If 2 marks are given give two facts or a fact and an explanation.

If 6 marks are given give six facts or 3 facts and 3 explanations.

Marks are awarded for quality of drawing. Use a ruler for straight lines, a compass for curves, draw in pencil, shade in pencil crayon.