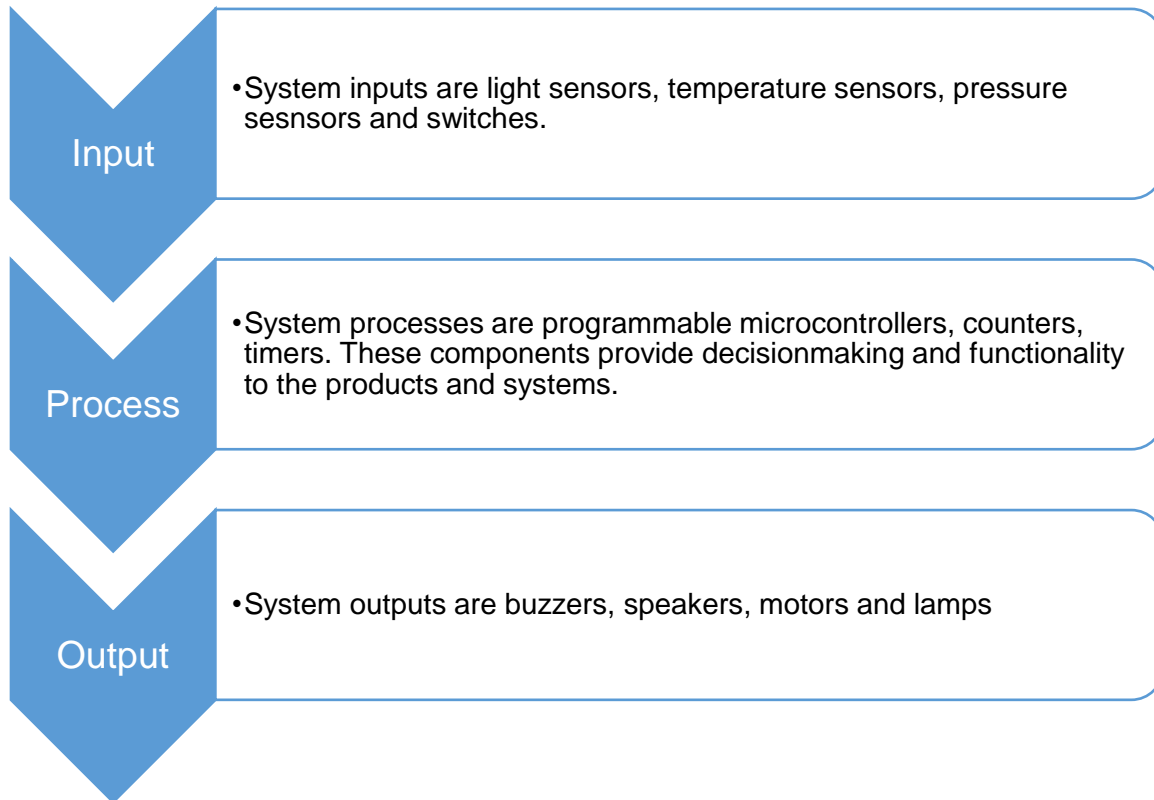


DESIGNING SYSTEMS




Key Revision Facts: GCSE Technology

All electronic circuits can be shown as a **Block Diagram**, having an **Input**, **Control**, and an **Output**. Most electronic components fall into one of these categories.




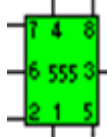
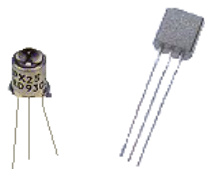
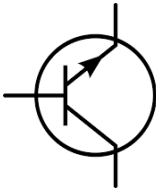

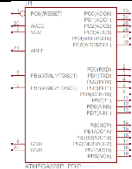
Inputs

Below are a few examples of input components.

Thermistors sense the temperature change. The Thermistor resistance changes with temperature.		
Switches come in many different styles, with varying numbers of connections. they are used to “make” or “break.” connections		
The Light Dependent resistor (LDR) are used to sense changes in light and the resistance changes with varying light levels.		

Control

Below are a few examples of control components.

555 Timers produces accurate delays or oscillations		
Transistors control the flow of the current.		
Micro-Controllers execute programable logic		

Outputs

Below are a few examples of output components.

Light Bulbs produce visible light		
Motors produce rotational motion		
Buzzers produce sound		

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More Key Fact Revision sheets can be downloaded from

www.andrew-seaford.co.uk/revision

VERSION INFORMATION

Date	Arthur	Comment
17-Jan-2021	Andrew Seaford	Initial release.