

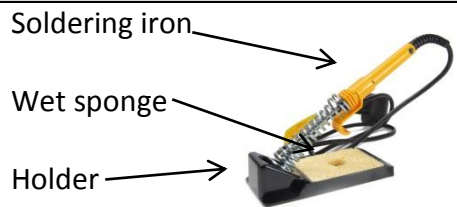
Design Technology - Torch

Year 7 – Autumn Term 1



Electronic Components		
Name	Symbol	Function
Resistor		Controls the flow of current through the circuit
Light Emitting Diode		Provides light
Battery		Powers the circuit
Switch	On Off	Controls whether the current flows through the circuit or not

Soldering



SAFETY: If you burn yourself, run your hand under a cold tap for 10 minutes.

Too much solder	Ideal solder	Not enough solder

2D Design	
Symbol	Meaning
	Select Tool – Allows you to select any item.
	Text tool – Allows you to add a text, change the font or size.
	Delete tool – Allows you to delete part of an object, undo your last action.
	Zoom + Allows you to look closer at part of your design
	Zoom – Allows you to zoom out of a magnified image.

File types

.dtd	Allows you to open the folder in 2D design
.dxf	Allows the laser cutter to open your file

Line Colours

Red	Cut through – The line will be cut all the way through
Green	Profile cut – The line will be partially cut
Blue	Engrave – The line will be “filled”

Keywords	
Keyword	Definition
Analysis	Looking at something in detail and finding the strengths and weaknesses
Bonding Alloy	A mix of metals (alloy) used as a glue (bonding) <i>Example: Solder</i>
Computer Aided Design	Using a computer to help design a product <i>Example: Techsoft 2D design</i>
Computer Aided Manufacture	Using a computer, or computerised machine to help make a product <i>Example: Laser cutter</i>
Component	A part of a product
Current	The flow of electricity through a circuit
Function	How things work
Laser Cutter	A machine that uses a laser to cut through materials
Specification	Details about what the product must do or include
Solder	A low melting point alloy used to bond components to a circuit
Tolerance	How accurate the resistor is, from the given number.

