







Year 9 Casting Project

1	Design Brief	The instructions that a client gives to a designer about what they want a product to be like.	13	Evaluate	To think reflectively about their work and make changes to their project that will improve it.
2	Design Specification	A list of criteria that a product should meet.	14	Techsoft	Computer drawing software used with the laser cutter.
3	Mood Board	A collection of images and words to help inspire design ideas.	15	Toolbar	Used to house different drawing tools on Techsoft.
4	Criteria	Things that should be listed in the design specification.	16	Gridlock	Tool used in techsoft to allow specific movement of the mouse within the grid.
5	Ferrous Metal	A metal or alloy that contains iron.	17	Steplock	Tool used in techsoft to allow free movement of the mouse within the grid.
6	Non Ferrous Metal	A metal or alloy that doesn't contain iron.	18	Contour	To closely follow or fit around the curved surface or shape of something.
7	Alloy	A mixture of two or more metals, or a metal mixed with one or more elements.	19	Mould 	A hollow container used to give shape to molten or hot liquid material when it cools and hardens.
8	Properties	The properties of materials are their characteristics. The properties of a material determine what it's useful for.	20	Sprue 	A channel through which metal or plastic is poured into a mould.
9	Designing	To make or draw plans for something.	21	Acrylic	Acrylic is a thermoplastic that is hard, stiff and shiny. It can be recycled.
10	Design Development	A process of creating a more detailed, refined design.	22	MDF	MDF is a manufactured board that is made from tiny fibres of softwood timber held together by glue.
11	Annotation	A note by way of explanation or comment added to a diagram.	23	Laser cutter 	The use of a high-powered laser to cut, etch and engrave your material.
12	Summarise	To give a brief statement of the main points of something.	24	Pewter	Pewter is a malleable metal alloy that has a low melting point making it perfect for casting.

25	Casting	The process of casting involves molten material being poured into a hollow mould.	31	Wet & Dry Paper 	Type of abrasive paper that can be use wet or dry to shape or smooth metals and plastics.
26	Molten	Metal that is liquefied by heat.	32	Pillar Drill	Used to make round holes. They can be used on all kinds of materials, depending on the drill bit used.
27	Solidify	Make or become hard or solid.	33	Polish	To make the surface of metal smooth and shiny by rubbing it with brasso.
28	Hacksaw 	Used for cutting metals and plastics.	34	Testing	A process of measuring the properties or performance of products
29	File 	Tool that removes smaller amounts of material, smooths material and can help round the edges of material.	35	Modifications	To make changes to an idea or product to improve its commercial viability.
30	Glasspaper	Rubbed against the material to shape or smooth.			