

YEAR 9 ACCURACY - **KNOWLEDGE** ASSESSMENT GRID

FOUNDATION	
Health and Safety	Understands the health and safety rules within the workshop environment and is able to explain why they are required.
Designing and Communicating	Can select simple pattern/design for their casting Some ideas will be feasible.
	Design or pattern selection is basic with simple communication.
	Design or pattern selected is explained with few opinions.
	Can use 2D CAD with some support to design casting moulds for laser cutting.
Practical skills, knowledge and accuracy	Is able to use hand tools and workshop equipment with some support following practice to safely produce a mostly complete or basic product.
	Understands with teacher support how to achieve a high quality finish on pewter and pine.
	Has some understanding of laser cutting/casting and can explain the process in basic terms.
	Can describe the basic properties of some of the materials used in class.
	The final product is of adequate quality.
Analysis and Evaluation	With support, can reflect on written, design and practical work identifying areas of strength and areas that could be improved.
	Can give simple peer feedback on written, design and practical work.

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INTERMEDIATE

Health and Safety	Understand the health and safety rules within the workshop environment and be able to explain why they are required.
Designing and Communicating	Can select a pattern/design for their casting Most ideas will be feasible.
	Design or pattern selection has some thought to how it will look once cast.
	Design thinking is explained with brief explanations and some opinions both self and peer.
	Can use 2D CAD to design casting moulds for laser cutting. These designs will have been contoured from internet images.
Practical skills, knowledge and accuracy	Is able to use hand tools and workshop equipment with some accuracy following practice to safely produce a completed product of reasonable quality.
	Understands and can demonstrate how to achieve a good quality finish on pewter and pine.
	Understands laser cutting/casting and can explain the process.
	Can describe the properties of the materials used in class. Can suggest what some of the materials in class might be used for with support.
	The final product is of a good quality using a variety of materials. It is constructed effectively and functions appropriately.
Analysis and Evaluation	Can reflect on written, design and practical work identifying areas of strength and areas that could be improved.
	Can give simple peer feedback on written, design and practical work.

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HIGHER	
Health and Safety	Fully appreciates the health and safety rules within the workshop environment and is able to explain confidently why they are required.
Designing and Communicating	Can select a pattern/design for their casting All ideas will be feasible.
	Design ideas selected are relevant.
	Good communication with opinions and evaluations. They may have sought the opinions of others.
	Can use 2D CAD to design casting moulds for laser cutting. These designs will have been contoured from internet images. They may have thought about and implemented a combination of materials (acrylic and pewter).
Practical skills, knowledge and accuracy	Is able to use hand tools and workshop equipment with a good level of accuracy following practice to safely produce a completed product of good quality.
	Understands and can demonstrate how to achieve a high quality finish on pewter and pine
	Fully understands laser cutting/casting and can explain the process.
	Can describe the properties of the materials used in class and give simple applications for these materials.
	The final product is of a good quality using a variety of materials showing skill and accuracy. It is constructed effectively and functions well.
	Can give constructive peer feedback on written, design and practical work.
Analysis and Evaluation	Can reflect effectively on written, design and practical work identifying areas of strength and areas that could be improved. Is able to independently make improvements to their work as a result of these evaluations.

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EXCEPTIONAL

Health and Safety	Fully appreciates the health and safety rules within the workshop environment and is able to confidently explain the hazards and risks presented.
Designing and Communicating	Can select a pattern/design for their casting. All ideas will be feasible.
	Design ideas selected are relevant.
	Very good communication with opinions and evaluations. They have sought the opinions of others.
	Can use 2D CAD to design casting moulds for laser cutting. These designs will have been contoured from internet images. They may have thought about and implemented a combination of materials (acrylic and pewter).
Practical skills, knowledge and accuracy	Is able to use hand tools and workshop equipment with precision following practice to safely produce a completed product of excellent quality.
	Understands and can demonstrate how to achieve a high quality finish on pewter and pine.
	Fully understands laser cutting/casting and can explain the process and possible industry applications.
	Can describe the properties of the materials in each category and those used in class. Is able to explain applications for these materials and why those applications are suitable.
	The final product is of a high standard using a variety of materials showing skill and precision. It shows flair and originality It is constructed effectively and functions very well.
Analysis and Evaluation	Consistently and effectively reflects on written, design and practical work identifying areas of strength and areas that could be improved. Is able to independently make improvements to their work as a result of these evaluations. Can give constructive and supportive peer feedback on written, design and practical work. Is able to support peers in achieving improvements to their work.