

ADT Department

Year 2022

Topic: Year 8 CAD CAM study aid

Learning Journey

Prior learning: Introduction to CAD CAM no prior experience, students will have begun to develop designing and rendering skills from previous projects

Learning sequence – topic title							Endpoint
Main learning steps	Introduce 2D Design software to develop basic drawing and design skills using a series of exercises	Product analysis to develop research skills and to inform design stages Homework: Product analysis of other peoples work	Use the design brief and secondary research to develop initial design ideas	Introduce CAM (laser cutter) to enable students to connect between design and outcome. Use CAD to further progress and refine idea Technician to demonstrate laser cutter in groups.	Develop card model to test, modify and refine ideas, demonstrating iterative design.	Final product evaluation against the specification including DT specific vocabulary. Peer product testing within the group.	High quality working prototype produced, tested and evaluated. Evidence of 2D design on TEAMS/Print ed in booklets.
Assessment	Whole class feedback and individual	Self assessment	Whole class feedback and peer assessment	Teacher feedback	Ongoing verbal feedback	Peer assessment	Teacher summative assessment in

	teacher feedback				Model checked against drawing and product testing.		student booklet
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Resources needed at home – internet access, basic drawing equipment including colouring pencils.

Parental support – Listen to 'The brief history of stuff' podcast linked with the Science Museum

Where will we use these ideas again: CAD to be developed further in year 9 and link to KS4 curriculum