

DESIGN TECHNOLOGY KNOWLEDGE ORGANISER

Topic: CAD/CAM Ruler Project

Computer aided design - CAD

Design software such as 2D design or Sketchup, allow the designer to draw a product in detail. Products can be designed and modified quickly. CAD allows for the testing of prototypes during the design process, without the need to make it.

Computer aided manufacture - CAM

Once a prototype design has been produced, it can be manufactured on a CNC machine or Laser Cutter. Computer Aided Manufacture (CAM) has meant that products and components can be made repeatedly to the same high standard.







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Key Terms

Automation- Using automatic equipment in **Computer aided design (CAD)**-The process of creating a 2D or 3D design using computer

Computer aided manufacture (CAM)-The

manufacture of a part or product from a computer aided design (CAD) using computer-controlled machinery, such as a 3D printer. **Laser cutting-** a technology that uses a laser to cut

Thermoplastic- types of plastic which become soft

Tasks

Task 1: Create a mind map about the thermoset plastics. Task 2: Create a mind map about the thermoplastics.

Task 3: Create 6 questions that can be answered from

the information on the knowledge organiser.

Task 4: Create a quiz based on task 1, 2 or 3. Get

Task 5: Create a mind map for the information you remember and red pen anything you've forgotten.

Task 6: Teach it. Create a task that can be used to teach some of the information from here.





Precious Plastic - The basics of plastic

