



At last, a really useful book to move all our thinking forward on the CAD/CAM agenda in school. A review of the book:

Jointly published by TEP and NAAIDT and written by TEP Associate Bob Cater this should prove an absolute must-have publication for all Heads of Department as well as those teachers using or planning to teach CAD/CAM related work.

CAD/CAM A Guide for Secondary Schools

This book provides timely guidance and lavishly illustrated with exemplar work from a number of schools and organisations.

The book features full-colour illustrations and colour coded sections. With an easy to use index it takes users direct to the relevant sections. Also included is a really useful glossary for readers.

Graphic Design and outcomes feature strongly throughout with the journey starting in 2D and progressing to 3D design examples. Practical, simple and not-so-simple products from design through to manufacture are explored. This includes a look at product modelling and 3D manufacturing using STL files. The role of CAD/CAM in electronics design and manufacture is followed as well as how CAD/CAM activity can integrate with other processes, including manufacturing moulds for vacuum forming and pewter casting.

Much of the book concentrates on exploring contexts for CAD/CAM assignments and exemplifying them. A brief look at opportunities at Key stage 2 is covered too. The author also takes time to reflect on pedagogical issues and on the key skills embedded in CAD/CAM experiences and outcomes. Helpful hints on auditing CAD/CAM in school are welcomed as is a commentary on how we judge standards in CAD/CAM work.

There is an extensive section on exciting and unusual textiles work featuring dye sublimation, CAM embroidery techniques and lots of alternative practical outcomes. A number of case studies are followed with products and activities from 2D assemblies, card modelling techniques as well as sophisticated desktop products through to rapid prototyping. Bob even finds space to review some of the key points of different software packages.

In the back-leaf of the book there are photo-copiable audit and assessment matrices included to assist schools evaluate their current progress with integrating CAD/CAM into the D&T curriculum.

TEP are delighted to support both NAAIDT and Bob Cater in this wonderful new publication and believe it will do much to help us all raise standards in CAD/CAM and seed some great practical ideas for teachers.

➔ Available from NAAIDT Publications at
DATA 16 Wellesbourne House Walton Road, Wellesbourne CV35 9JB or
from the new TEP Bookshop



CAD it! CAM it!

Following the success of Bob Cater's Guide to CAD/CAM for Secondary Schools, he was prompted to assemble some of the assets for this second publication.

In soft-back edition and running to 48 printed pages in a landscape format that really suits the step-by-step tutorials and wonderful graphics. It features a wealth of superb ideas and applications for Key Stages 1 and 2. Readers will find lots of useful ideas and techniques applicable across the age range. Based principally around the free software application, Open Office Draw, the whole publication guides teachers quite literally step by step through a series of structured projects.

Giving pupils high quality low cost artefacts and building in their ownership of the design is a fundamental aim of the book and teachers will quickly assimilate to the software and the wonderful range of ideas.

For some readers with other generic or specific CAD software this book is still an absolute essential read and desktop aid – not just for the ideas but the high quality images that abound in the pages that will help inspire teachers and pupils alike.

The whole publication focuses on the practical or active capability it can confer and this first edition has an exhaustive stab at choice with more than 15 individual assignments. These range from introductory bookmarks to detailed packaging, functional storage products, mouse-mats and electronic testers!

As a first book to start teachers and pupils off, it is a really important desktop guide and the first of its kind. We are sure you will agree that this is a delightful and inspiring addition to any D&T bookshelf and TEP are delighted to support Bob and recommend it.

Assignments and projects featured include:

- Bookmarks
- Badges
- Fridge magnets
- Celebration cards
- Developing nets
- Developing packaging ideas
- Gift bags
- Cases and holders
- Mobile phone holders
- Mouse mats
- Calendars
- Penpots
- Simple free standing clocks
- Fuse testers
- Door hangers
- Use of a plotter cutter
- Installing Open Office Draw
- Other free software
- Sources for components and parts

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Computer-aided designing and making
for primary schools

A GUIDE FOR TEACHERS

