

Engineering GCSE

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Mike Tooley's accessible, activity-based approach introduces students to engineering and the pivotal role it plays in the modern world, as well as providing opportunities to develop engineering skills and acquire the knowledge needed for the latest GCSE schemes from Edexcel, OCR and AQA. This book builds on the success of Mike Tooley's GNVQ and BTEC National Engineering texts, which have helped thousands of students to gain their first engineering qualification.

The text, case studies, activities and review questions included throughout this book are designed to encourage students to explore engineering for themselves through a variety of different learning experiences. The practical process of designing and making a product offers the chance to develop the skills of engineering drawing, basic electronics and workshop techniques. Case studies, and research work using the internet and other sources, introduce the wide variety of engineering sectors and employment, from the automotive industry to telecommunications.

With the first three chapters matched to the assessed units of the GCSE programme, the second edition also includes an additional topic-based chapter introducing the essential maths and science required for the successful study of engineering. All examples relate directly to engineering applications, emphasising the use of maths and science in the understanding of fundamental engineering concepts. New topics include: units; formulae; measurement; data; linear and angular motion; force, mass and acceleration; and properties of engineering materials.

Mike Tooley is formerly Director of Learning at Brooklands College, Surrey, and is the author of many best-selling engineering and electronics books.



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