

Design & technology for the next generation



TEP have co-ordinated a selection of renowned UK-based and international D&T authors to provide a compelling and definitive view of D&T from the inside out. Edited by Dr David Barlex and produced by the TEP team, this is aimed at those at the beginning of their careers as design and technology teachers, but will also be of significant interest to all involved in teaching the subject.

The one-year post graduate certificate in education programme and the graduate teaching programme for design and technology teachers are all too short. Understandably, their emphasis is on meeting the immediate and relatively short-term needs of those entering the teaching profession. A particular omission for trainees is current research findings that are relevant to classroom practice in D&T. There is no shortage of high quality and pertinent research but this is often spread throughout the academic literature and not easily accessible to busy teachers in the early stages of their career.



For most D&T practitioners this first edition will provide as many questions as answers, but will help colleagues develop their ideology and reflective practice. Not least it will help raise the stakes in the D&T debate in defending and articulating the position of the subject.

Each of the authors is an acknowledged international expert with many years' experience in a relevant field of study; most have been schoolteachers at some stage in their careers. They were commissioned to distil their areas of expertise into readable pieces that were provocative, would stimulate reflection and lead those entering the profession to question current practice and engage in curriculum development.

This book has been written to help bring the teaching and educational research communities for design and technology closer together. Each chapter has a list of books and articles for further reading as well as a list of references to help develop an understanding of issues the reader finds of particular interest or relevance, and each page has questions to stimulate thought and discussion. You may not agree with the authors but you will not be able to ignore what they have to say.

Companion to the book is a useful and developing website www.dandt-thebook.com hosted by TEP with access to assignments and support material. This provides an opportunity to network with other readers and users to develop and add to the breadth of provocative writing. This is a unique and additional approach to publishing to support the established, as well as the emerging D&T community and is sure to be a superb vehicle for engagement and debate.

Chapters and authors include:

- Justifying design & technology** – David Barlex
- Philosophical reflections on the nature of design & technology** – Marc J. de Vries
- 2020 vision - on the politics of technology** – Stephen Petrina
- Designers on designing** – Malcolm Welch
- The politics of technology curriculum** – Steve Kierl
- The place of sustainability in design & technology education** – Margarita Pavlova & James Pitt
- Vocationalism - friend or foe to design & technology education?** – John Dakers
- Developing your own curriculum** – Nick Baldwin & David Barlex
- The pupil as designer** – Malcolm Welch
- Creativity in design & technology** – Marion Rutland & David Spendlove
- Problem-solving in technology education: the role of strategies, schemes and heuristics** – Moshe Barak
- The role of technical knowledge in design & technology** – Gwyneth Owen-Jackson & Torben Steeg
- The role of making in design & technology** – Frank Banks & Gwyneth Owen-Jackson
- Useful assessment for design & technology – formative assessment, learning and teaching** – Stephanie Atkinson & Paul Black
- Mind (not) the gap... Take a risk! Interdisciplinary approaches to the science, technology, engineering and mathematics education agenda** – Dov Kipperman & Mark Sanders
- Gender and pedagogy** – Patricia Murphy
- Implicit theories and pedagogy** – Wendy Dow
- Issues arising** – Peter Toft

Design and technology for the next generation is available at the pre-registration price of £35.50 including a 25% discount until its launch on the 14th November 2007. A number of authors will be available at the D&T With ICT Show in November to meet teachers and colleagues at the official launch of the book.



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