

# make it stick pdf

**Make it Stick PDF:** The Ultimate Guide to Mastering Learning and Memory

In today's fast-paced world, the ability to retain information effectively is more crucial than ever. Whether you're a student preparing for exams, a professional seeking to enhance your skills, or simply someone eager to improve your memory, understanding the principles behind effective learning can make a significant difference. The Make it Stick PDF is a valuable resource that distills research-backed strategies to help learners retain information longer and learn more efficiently. This comprehensive guide explores the key concepts from the "Make it Stick" book and how you can leverage the PDF to transform your learning approach.

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## What is the "Make it Stick" PDF?

The "Make it Stick" PDF refers to a digital or printable version of the renowned book *Make It Stick: The Science of Successful Learning* by Peter C. Brown, Henry L. Roediger III, and Mark A. McDaniel. This PDF compiles essential insights, practical techniques, and scientific explanations that challenge common misconceptions about learning. Unlike traditional study methods, it emphasizes active engagement, retrieval practice, and spaced repetition—methods proven to enhance long-term retention.

Key Features of the Make it Stick PDF:

- Summarizes complex cognitive science research in an accessible format
- Provides step-by-step strategies for effective learning
- Offers real-world examples and exercises
- Serves as a portable reference for learners and educators

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## Core Principles of Effective Learning from the Make it Stick PDF

Understanding the fundamental principles outlined in the PDF can radically improve how you acquire and retain knowledge. Here are the core ideas:

# 1. Retrieval Practice

Retrieval practice involves actively recalling information from memory rather than passively reviewing notes or textbooks. This process strengthens neural pathways, making it easier to access information later.

Strategies include:

- Testing yourself regularly
- Using flashcards
- Explaining concepts aloud without notes

# 2. Spaced Repetition

Spacing out learning sessions over time enhances long-term retention more than cramming. The PDF emphasizes planning review sessions at increasing intervals.

Implementation tips:

- Review material after 1 day, then 3 days, then a week
- Use spaced repetition software (e.g., Anki)

# 3. Interleaving Practice

Mixing different topics or skills during study sessions helps learners distinguish between concepts and apply knowledge flexibly.

Practical application:

- Study different types of problems in one session
- Alternate between subjects rather than focusing on one topic at a time

# 4. Elaboration and Reflection

Connecting new information to prior knowledge and reflecting on what has been learned deepens understanding.

Techniques include:

- Asking "how" and "why" questions
- Summarizing concepts in your own words
- Teaching others what you've learned

## **5. Embracing Difficulties**

Challenges and mistakes are valuable learning opportunities. The PDF encourages learners to embrace difficulty rather than avoid it.

Approaches:

- Practice retrieval even when answers are hard
- Avoid over-reliance on passive review

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## **How to Use the Make it Stick PDF Effectively**

Having the PDF is just the first step. To maximize its benefits, implement these strategies:

### **1. Active Reading**

- Highlight key points and annotate margins with questions or summaries
- Take notes in your own words to reinforce understanding

### **2. Create a Personal Study Plan**

- Break down topics into manageable chunks
- Schedule review sessions based on spaced repetition principles
- Incorporate retrieval exercises regularly

### **3. Apply Techniques Immediately**

- Use flashcards or quizzes after each study session
- Teach concepts to a peer or record explanations

## 4. Reflect on Your Learning Process

- Keep a journal of what methods work best
- Adjust your strategies based on feedback and results

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## Benefits of Incorporating Make it Stick Strategies

Implementing the techniques from the PDF offers numerous advantages:

### Enhanced Retention and Recall

- Information stays in your memory longer
- Faster retrieval during exams or real-world application

### Deeper Understanding

- Connecting concepts leads to meaningful learning
- Ability to apply knowledge flexibly

### Increased Motivation and Confidence

- Achieving learning goals boosts self-efficacy
- Reduced frustration with difficult material

### Long-Term Skill Development

- Builds habits that support lifelong learning
- Prepares you for complex problem-solving

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## Additional Resources and Tools Included in the Make it Stick PDF

Beyond the core principles, the PDF often contains valuable tools to facilitate your learning journey:

- Checklists for effective study sessions
- Sample quizzes and flashcards
- Guidelines for creating personalized spaced repetition schedules
- Case studies illustrating successful application

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## **Common Misconceptions Addressed by the Make it Stick PDF**

The PDF also debunks myths that hinder effective learning:

- Myth: Re-reading and highlighting are enough
- Reality: These are passive and less effective than active recall
- Myth: Cramming leads to good retention
- Reality: Cramming results in short-term memorization, not long-term learning
- Myth: Learning styles (visual, auditory, kinesthetic) determine effectiveness
- Reality: Active engagement and retrieval are more critical than learning style preferences

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## **Conclusion: Transform Your Learning with the Make it Stick PDF**

The Make it Stick PDF is a treasure trove of scientifically validated strategies that can transform your approach to learning. By understanding and applying principles like retrieval practice, spaced repetition, and interleaving, you can improve your memory, deepen your understanding, and become a more effective learner. Whether you're studying for exams, acquiring new skills, or simply seeking to learn more efficiently, integrating the insights from this PDF into your routine can lead to lasting success.

Remember, the key to making knowledge stick is active engagement and consistent effort. Download the PDF, familiarize yourself with its content, and start implementing these techniques today. Your future self will thank you for it!

## **Frequently Asked Questions**

## **What is the 'Make It Stick' PDF about?**

The 'Make It Stick' PDF is a downloadable version of the book that explores effective learning strategies based on cognitive science research, emphasizing techniques that improve long-term retention and understanding.

## **Where can I find the official 'Make It Stick' PDF?**

The official 'Make It Stick' PDF can typically be purchased or accessed through authorized retailers, the publisher's website, or academic platforms. Be cautious of unofficial sources to avoid piracy.

## **Is the 'Make It Stick' PDF free to download?**

Generally, the official PDF is not free and requires purchase. However, some excerpts or summaries may be available for free on educational websites or author pages.

## **What are the main learning techniques discussed in 'Make It Stick' PDF?**

The book emphasizes techniques such as retrieval practice, spaced repetition, interleaving, elaboration, and reflection to enhance durable learning.

## **Can I use the 'Make It Stick' PDF for educational purposes?**

Yes, the PDF can be used for educational purposes, but ensure you have the proper license or permission if you plan to distribute it or use it commercially.

## **How can I implement the strategies from 'Make It Stick' PDF into my study routine?**

You can incorporate techniques like testing yourself regularly, spreading out study sessions, mixing different topics, and actively recalling information to improve retention.

## **Are there any reviews or summaries of the 'Make It Stick' PDF available online?**

Yes, numerous reviews and summaries are available online that highlight the key concepts of the book, which can supplement your understanding before reading the full PDF.

## **Is 'Make It Stick' suitable for all learners and age groups?**

Yes, the principles outlined in 'Make It Stick' are applicable across various age groups and learning contexts, from students to professionals.

## **What distinguishes 'Make It Stick' from other study guides or learning books?**

It is distinguished by its focus on evidence-based cognitive science insights, practical strategies, and emphasis on active learning techniques that promote durable understanding.

## **How can I ensure I am using the 'Make It Stick' PDF ethically and legally?**

Always obtain the PDF through authorized channels, respect copyright laws, and avoid pirated copies to support authors and publishers.

## **Additional Resources**

Make It Stick PDF: An In-Depth Examination of the Revolutionary Learning Resource

In the rapidly evolving landscape of education and self-improvement, resources that facilitate effective learning are highly sought after. Among these, the Make It Stick PDF has garnered considerable attention from educators, students, and lifelong learners alike. This comprehensive review aims to dissect the core elements of the "Make It Stick" PDF, exploring its origins, underlying principles, practical applications, and overall impact on the learning community. Through an investigative lens, this article seeks to provide readers with an in-depth understanding of why this resource has become a pivotal tool in the quest for more durable and meaningful learning.

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## **Origins and Background of "Make It Stick"**

### **The Authors and Their Mission**

"Make It Stick: The Science of Successful Learning" is a book authored by Peter C. Brown, Henry L. Roediger III, and Mark A. McDaniel. Published in 2014, the book synthesizes decades of research from cognitive psychology and educational science, translating complex scientific concepts into accessible strategies for learners.

The authors' primary mission was to challenge conventional wisdom about effective learning, which often relies on rote memorization and repeated exposure. Instead, they advocate for evidence-based techniques that promote durable, flexible, and transferable knowledge—principles that underpin the "make it stick"

philosophy.

## **From Book to PDF: Accessibility and Distribution**

While the original "Make It Stick" book is available in print and digital formats through commercial publishers, a significant aspect of its dissemination has been through freely available PDFs. These PDFs serve as summaries, study guides, or condensed versions designed to facilitate easy access and quick reference for students and educators.

The Make It Stick PDF has emerged as a popular resource online, often circulated through educational forums, academic websites, and open-access repositories. Its widespread availability has contributed to its influence beyond the confines of academic libraries, making its insights accessible to a global audience.

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## **Core Principles and Scientific Foundations**

### **Evidence-Based Learning Strategies**

The "Make It Stick" PDF distills key research findings into practical strategies that contrast with traditional study methods. Central to its philosophy are techniques that enhance retention, comprehension, and transferability.

Some of the primary strategies include:

- Retrieval Practice: Actively recalling information strengthens memory traces more effectively than passive review.
- Spacing Effect: Distributing learning sessions over time improves long-term retention.
- Interleaving: Mixing different topics or problem types enhances discrimination and adaptability.
- Elaboration: Explaining concepts in one's own words deepens understanding.
- Generation: Attempting to solve problems before being taught solutions fosters engagement and learning.

### **The Science Behind the Strategies**

The PDF emphasizes that these strategies are grounded in robust cognitive science research. For example:



- Retrieval practice leverages the testing effect, demonstrating that the act of recalling information consolidates learning more effectively than rereading.
- Spacing and interleaving combat the illusion of mastery that comes from massed practice, encouraging more durable memory traces.
- Elaboration and generation involve active engagement, which has been shown to promote meaningful learning and transfer to new contexts.

By integrating these evidence-based approaches, the "Make It Stick" PDF aims to optimize the learning process, making it more efficient and effective.

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## **Content Breakdown of the "Make It Stick" PDF**

The PDF typically condenses the core content of the book into digestible sections, focusing on the application of scientific principles. While variations exist depending on the source, common structural elements include:

### **Introduction: Rethinking Learning**

- Challenging misconceptions about effective study habits
- Introducing the concept of durable learning

### **Part 1: The Science of Memory**

- How memory works
- Factors influencing learning and forgetting

### **Part 2: Strategies for Durable Learning**

- Retrieval practice techniques
- Spaced repetition schedules
- Interleaving practices
- Use of varied practice and contextual learning

## **Part 3: Overcoming Challenges**

- Handling motivation and frustration
- Avoiding common pitfalls such as passive rereading

## **Part 4: Practical Applications**

- Applying principles to different educational settings
- Tips for teachers, students, and self-learners

## **Conclusion: Embracing a Science-Based Mindset**

- Cultivating habits that promote lifelong learning
- Continual adaptation of strategies based on emerging research

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## **Practical Benefits and Critiques of the "Make It Stick" PDF**

### **Advantages for Learners and Educators**

- Accessibility: The PDF format allows for quick reference and ease of distribution.
- Actionable Strategies: Clear, research-backed techniques can be immediately implemented.
- Enhanced Retention: Applying the strategies leads to improved long-term memory.
- Motivation and Confidence: Understanding the science demystifies learning, empowering learners.

### **Limitations and Critiques**

Despite its strengths, the "Make It Stick" PDF has some limitations:

- Simplification of Complex Science: Condensed versions may oversimplify nuanced research findings.
- Variability in Implementation: Not all learners or educators may adapt strategies effectively.
- Access and Quality: The proliferation of unofficial PDFs raises concerns about accuracy and completeness.
- Lack of Personalized Guidance: Generic PDFs cannot replace tailored instruction or coaching.

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## Impact and Reception in the Educational Community

### Adoption by Educational Institutions

Many schools and universities have integrated "Make It Stick" principles into their curricula, emphasizing active learning and retrieval-based exercises. Workshops and professional development programs often reference the PDF as a foundational resource.

### Influence on Self-Directed Learning

Lifelong learners and self-study enthusiasts utilize the PDF to overhaul their study habits, shifting from passive review to active engagement. Online communities frequently share summaries and adaptations of the PDF, further amplifying its reach.

### Criticism and Controversy

Some critics argue that the PDF's condensed nature may lead to superficial understanding if not complemented with comprehensive study. Others point out that reliance solely on these strategies without considering individual learner differences can limit effectiveness.

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## Conclusion: The Significance of the "Make It Stick" PDF in Modern Learning

The Make It Stick PDF stands as a testament to the power of translating cognitive science into practical tools for learners. Its emphasis on evidence-based strategies offers a paradigm shift away from traditional, passive study methods toward a more active, engaged, and scientifically grounded approach.

While it is not a panacea, when used thoughtfully and in conjunction with other learning resources, the PDF can significantly enhance the quality and durability of learning. Its widespread dissemination underscores its relevance and the growing recognition of science-informed education.

As educational landscapes continue to evolve, resources like the "Make It Stick" PDF serve as vital guides, illuminating effective pathways to mastering knowledge in an increasingly complex world. For anyone committed to deep, lasting learning, understanding and applying the principles outlined within this resource can make a profound difference.

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## Final Thoughts

The investigation into the Make It Stick PDF reveals a compelling blend of scientific rigor and practical utility. Its influence extends across diverse educational contexts, fostering a culture of informed and effective learning practices. As the science of learning advances, such resources will remain critical in translating research into actionable strategies that empower learners worldwide.

## [Make It Stick Pdf](#)

**make it stick pdf: Make It Stick** Peter C. Brown, Henry L. Roediger III, Mark A. McDaniel, 2014-04-14 To most of us, learning something the hard way implies wasted time and effort. Good teaching, we believe, should be creatively tailored to the different learning styles of students and should use strategies that make learning easier. Make It Stick turns fashionable ideas like these on their head. Drawing on recent discoveries in cognitive psychology and other disciplines, the authors offer concrete techniques for becoming more productive learners. Memory plays a central role in our ability to carry out complex cognitive tasks, such as applying knowledge to problems never before encountered and drawing inferences from facts already known. New insights into how memory is encoded, consolidated, and later retrieved have led to a better understanding of how we learn. Grappling with the impediments that make learning challenging leads both to more complex mastery and better retention of what was learned. Many common study habits and practice routines turn out to be counterproductive. Underlining and highlighting, rereading, cramming, and single-minded repetition of new skills create the illusion of mastery, but gains fade quickly. More complex and durable learning come from self-testing, introducing certain difficulties in practice, waiting to re-study new material until a little forgetting has set in, and interleaving the practice of one skill or topic with another. Speaking most urgently to students, teachers, trainers, and athletes, Make It Stick will appeal to all those interested in the challenge of lifelong learning and self-improvement.

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**make it stick pdf: Security Culture** Hilary Walton, 2016-04-01 Security Culture starts from the premise that, even with good technical tools and security processes, an organisation is still vulnerable without a strong culture and a resilient set of behaviours in relation to people risk. Hilary Walton combines her research and her unique work portfolio to provide proven security culture strategies with practical advice on their implementation. And she does so across the board: from management buy-in, employee development and motivation, right through to effective metrics for security culture activities. There is still relatively little integrated and structured advice on how you can embed security in the culture of your organisation. Hilary Walton draws all the best ideas together, including a blend of psychology, risk and security, to offer a security culture interventions toolkit from which you can pick and choose as you design your security culture programme - whether in private or public settings. Applying the techniques included in Security Culture will enable you to introduce or enhance a culture in which security messages stick, employees comply

with policies, security complacency is challenged, and managers and employees understand the significance of this critically important, business-as-usual, function.

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**make it stick pdf:** *Art & Science in the Choral Rehearsal* Sharon J. Paul, 2020-04-01 In recent decades, cognitive neuroscience research has increased our understanding of how the brain learns, retains, and recalls information. At the same time, social psychologists have developed insights into group dynamics, exploring what motivates individuals in a group to give their full effort, or conversely, what might instead inspire them to become free loaders. *Art and Science in the Choral Rehearsal* explores the idea that choral conductors who better understand how the brain learns, and how individuals within groups function, can lead more efficient, productive, and enjoyable rehearsals. Armed with this knowledge, conductors can create rehearsal techniques which take advantage of certain fundamental brain and social psychology principles. Through such approaches, singers will become increasingly engaged physically and mentally in the rehearsal process. *Art and Science in the Choral Rehearsal* draws from a range of scientific studies to suggest and encourage effective, evidence-based techniques, and can help serve to reset and inspire new approaches toward teaching. Each chapter outlines exercises and creative ideas for conductors and music teachers, including the importance of embedding problem solving into rehearsal, the use of multiple entry points for newly acquired information, techniques to encourage an emotional connection to the music, and ways to incorporate writing exercises into rehearsal. Additional topics include brain-compatible teaching strategies to complement thorough score study, the science behind motivation, the role imagination plays in teaching, the psychology of rehearsal, and conducting tips and advice. All of these brain-friendly strategies serve to encourage singers' active participation in rehearsals, with the goal of motivating beautiful, inspired, and memorable performances.

**make it stick pdf:** *Who Cares Wins PDF eBook* David Jones, 2013-03-06 Written by the CEO of Havas Worldwide, this book shows you how to use social media to engage with customers and grow your business. This isn't a book about social media and the inexorable rise of Facebook and Twitter. Nor is it a book about CSR or business doing good. Instead it's actually the first book that recognises that far from being two separate subjects, they are intrinsically interlinked. And that the most successful leaders and businesses in the future will be those who are the most socially responsible.

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are in demand. Every idea in Mark. Plan. Teach. 2.0 can be implemented by all primary and secondary teachers at any stage of their career and will genuinely improve practice. The ideas have been tried and tested and are supported by evidence that explains why they work, including current educational research and psychological insights from Professor Tim O'Brien, leading psychologist and Honorary Professor at UCL Institute of Education.

**make it stick pdf: The Whole30 Cookbook** Melissa Hartwig Urban, 2016 Delicious and totally compliant recipes to get people through the wildly popular Whole30, and beyond

**make it stick pdf: Making Every MFL Lesson Count** James A Maxwell, 2019-11-21 James A. Maxwell's Making Every MFL Lesson Count: Six principles to support modern foreign language teaching shows modern foreign languages (MFL) teachers how they can take their students on a learning journey that both educates and inspires. Writing in the practical, engaging style of the award-winning Making Every Lesson Count, experienced MFL teacher James A. Maxwell empowers educators with the strategies and know-how to boost their students' attainment, engagement and enthusiasm in the MFL classroom. Making Every MFL Lesson Count is underpinned by six pedagogical principles challenge, explanation, modelling, practice, feedback and questioning and helps MFL teachers ensure that students leave their lessons with richer vocabulary, a better grasp of grammar and the skills and confidence to put the language learnt into practice. Bursting with templates, examples and flexible frameworks, this gimmick-free guide provides educators with a range of practical techniques designed to enhance their students' linguistic awareness and help them transfer the target language into long-term memory. James skilfully marries evidence-based practice with collective experience and, in doing so, inspires a challenging approach to secondary school MFL teaching. Furthermore, he concludes each chapter with a series of questions that will inspire reflective thought and encourage teachers to relate the content to their own classroom practice. Suitable for MFL teachers of students aged 11 to 18 years.

**make it stick pdf: Making Every Lesson Count** Shaun Allison, Andy Tharby, 2015-06-11 Packed with practical teaching strategies, Making Every Lesson Count bridges the gap between research findings and classroom practice. Shaun Allison and Andy Tharby examine the evidence behind what makes great teaching and explore how to implement this in the classroom to make a difference to learning. They distil teaching and learning down into six core principles challenge, explanation, modelling, practice, feedback and questioning and show how these can inspire an ethos of excellence and growth, not only in individual classrooms but across a whole school too. Combining robust evidence from a range of fields with the practical wisdom of experienced, effective classroom teachers, the book is a complete toolkit of strategies that teachers can use every lesson to make that lesson count. There are no gimmicky ideas here just high impact, focused teaching that results in great learning, every lesson, every day. To demonstrate how attainable this is, the book contains a number of case studies from a number of professionals who are successfully embedding a culture of excellence and growth in their schools. Making Every Lesson Count offers an evidence-informed alternative to restrictive Ofsted-driven definitions of great teaching, empowering teachers to deliver great lessons and celebrate high-quality practice. Suitable for all teachers including trainee teachers, NQTs, and experienced teachers who want quick and easy ways to enhance their practice and make every lesson count. Educational Book Award winner 2016 Judges' comments: A highly practical and interesting resource with loads of information and uses to support and inspire teachers of all levels of experience. An essential staffroom book.

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are in demand. Every idea in Mark. Plan. Teach. can be implemented by all primary and secondary teachers at any stage of their career and will genuinely improve practice. The ideas have been tried and tested and are supported by evidence that explains why they work, including current educational research and psychological insights from Dr Tim O'Brien, leading psychologist and Visiting Fellow at UCL Institute of Education. Mark. Plan. Teach. will enable all teachers to maximise the impact of their teaching and, in doing so, save time, reduce workload and take back control of the classroom.

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**make it stick pdf: Advances in Multimedia Information Processing - PCM 2018** Richang Hong, Wen-Huang Cheng, Toshihiko Yamasaki, Meng Wang, Chong-Wah Ngo, 2018-09-18 The three-volume set LNCS 101164, 11165, and 11166 constitutes the refereed proceedings of the 19th Pacific-Rim Conference on Multimedia, PCM 2018, held in Hefei, China, in September 2018. The 209 regular papers presented together with 20 special session papers were carefully reviewed and selected from 452 submissions. The papers cover topics such as: multimedia content analysis; multimedia signal processing and communications; and multimedia applications and services.

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the effort. You know what you need to do to lose weight. The problem is that you lack motivation. The author of this book is not an expert on nutrition or physical training, but he is a researcher of motivation. He shows how to add external motivation enough to expend the effort required for losing weight, and how to turn that effort into habit such that you can sustain it for the rest of your life, eliminating the need for the external motivation. The book is built upon numerous models and research in health, psychology, and economics, and told through the author's personal journey, through the stories of Alex, Valerie, Matthew, Don, Beth, and Joe, and through a survey of 222 participants.

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**make it stick pdf:** *Preparing to Teach in Secondary Schools: a Student Teacher's Guide to Professional Issues in Secondary Education* Ian Abbott, Prue Huddleston, David Middlewood, 2019-01-28 The fourth edition of this informative, accessible and intellectually engaging teacher training book provides a definitive guide for trainee and newly qualified secondary school teachers and their mentors. The book has been fully updated to reflect the many changes in policy and practice, including developments in the national curriculum, PSHEE and SEN provision. The latest edition covers topics such as how pupils learn, assessment, planning classroom communication and developing positive approaches to pupil behaviour. The wide range of specialist contributors, each bringing extensive first-hand experience of teaching, covers the core professional skills and concepts that new secondary school teachers need to acquire, irrespective of their subject specialism or training route, while the following key features of the book are:

- Examples and illustrations from real classroom practice.
- Details of current research.
- Activities, case studies and scenarios.

Ian Abbott, Associate Professor; Prue Huddleston, Emeritus Professor; and David Middlewood, Research Fellow, are all based at the University of Warwick's Centre for Education Studies, UK.

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