

ocr 21st century chemistry b7 markscheme Printable PDF

ocr 21st century chemistry b7 markscheme is an essential resource for students preparing for their A-level Chemistry exams. This markscheme provides detailed guidance on how examiners award marks for each question in the B7 section of the OCR 21st Century Chemistry specification. Understanding the markscheme is crucial for students aiming to maximize their exam scores, as it clarifies what examiners look for in responses and how to structure answers effectively. In this article, we will explore the key components of the OCR 21st Century Chemistry B7 markscheme, offer tips for exam success, and provide a comprehensive overview of how to approach questions to achieve top marks.

Understanding the OCR 21st Century Chemistry B7 Markscheme

What is the B7 Section?

The B7 section of the OCR 21st Century Chemistry specification typically covers topics related to organic chemistry, including:

- Reactions of alkenes and alkanes
- Homologous series and functional groups
- Mechanisms and reaction conditions
- Polymerization and industrial processes

This section assesses students' understanding of organic reaction pathways, mechanisms, and applications.

How the Markscheme Works

The markscheme is designed to:

- Specify the number of marks available for each question
- Describe the key points students need to include in their answers
- Provide guidance on how to earn full, partial, or no marks
- Offer alternative correct responses where applicable

Examiners follow the markscheme meticulously, awarding marks based on accuracy, clarity, and completeness of responses.

Key Components of the B7 Markscheme

1. Knowledge and Understanding

This component assesses whether students accurately recall and understand concepts such as:

- Types of reactions (e.g., addition, substitution, elimination)
- Reaction mechanisms
- Functional groups and their properties
- Industrial processes and their environmental impacts

To score well, students should provide precise definitions and explanations, avoiding vague or incomplete answers.

2. Application of Concepts

Students must demonstrate their ability to apply theoretical knowledge to practical scenarios, such as:

- Predicting products of reactions
- Suggesting reaction conditions
- Analyzing experimental data
- Evaluating environmental or industrial implications

Clear application shows examiners that students can transfer knowledge to real-world contexts.

3. Analytical and Problem-Solving Skills

Questions may require students to:

- Draw mechanisms with correct arrowing
- Identify reaction pathways
- Identify errors or inconsistencies in given data
- Suggest alternative methods or products

Detailed, logical reasoning earns higher marks.

4. Presentation and Clarity

Marks are awarded for:

- Clear, well-structured answers
- Use of correct chemical terminology and notation
- Proper diagrams with labels
- Logical flow of ideas

Good presentation can significantly influence mark allocation.

Strategies for Success with the B7 Markscheme

1. Familiarize Yourself with Past Papers and Markschemes

Practicing past exam questions and reviewing the corresponding markschemes helps students understand examiner expectations. Focus on questions from the B7 section, noting:

- Common question types
- Typical keywords and phrases that trigger mark allocation
- Common pitfalls or misconceptions to avoid

2. Develop a Strong Foundation of Organic Chemistry Concepts

Master core topics such as:

- Reaction mechanisms
- Functional group transformations
- Industrial processes (e.g., cracking, polymerization)
- Environmental considerations

A solid understanding enables students to answer confidently and accurately.

3. Structure Your Answers Effectively

To maximize marks:

- Write clear, concise sentences
- Use correct chemical symbols, equations, and diagrams
- Label diagrams clearly
- Include relevant keywords from the markscheme

Ensure each part of the question is addressed in a logical order.

4. Use Accurate and Precise Language

Incorrect terminology can lead to loss of marks. Focus on:

- Using terms like "electrophile," "nucleophile," "initiator," "monomer," etc., appropriately
- Providing correct reaction conditions (temperature, catalysts, pressure)
- Describing reaction pathways accurately with arrow-pushing

Common Questions and How to Approach Them

1. Drawing Reaction Mechanisms

When asked to draw mechanisms:

- Start with the correct reactant structure
- Show lone pairs and bond formations clearly
- Use curly arrows to indicate electron flow
- Label intermediates and products

Refer to the markscheme for specific steps expected to earn full marks.

2. Identifying Reaction Products

Approach questions asking for products by:

- Applying knowledge of reaction types (e.g., addition to alkenes)
- Considering reaction conditions (e.g., presence of catalysts)
- Drawing the correct structural formulae

3. Explaining Industrial Processes

When discussing processes like cracking or polymerization:

- Describe the process clearly
- Explain the relevance of conditions used
- Discuss environmental impacts if relevant

Use diagrams where appropriate, with labels.

Conclusion: Maximizing Your Score with the OCR 21st Century Chemistry B7 Markscheme

Achieving high marks in the B7 section of OCR 21st Century Chemistry requires more than just memorizing facts. It involves understanding the detailed criteria set out in the markscheme and applying this knowledge effectively in exam conditions. By practicing past papers, mastering key concepts, structuring answers well, and paying attention to detail, students can improve their chances of earning top marks.

Remember, the markscheme is a guide to what examiners expect?aligning your answers with these expectations is the key to success. Whether it's drawing mechanisms, explaining industrial processes, or analyzing data, clarity, accuracy, and logical reasoning are your best tools. With dedicated preparation and a strategic approach, students can confidently tackle the B7 questions and excel in their OCR Chemistry exams.

If you need further assistance or specific examples of markschemes for particular questions, consult the official OCR past papers and examiner reports, which provide invaluable insights into marking criteria and common student errors.

OCR 21st Century Chemistry B7 Markscheme: An In-Depth Analysis

In the realm of science education, particularly within the UK curriculum, the OCR 21st Century Chemistry B7 markscheme plays a pivotal role in shaping assessment standards and guiding student performance. As educators and students alike seek clarity and consistency in examination grading, understanding the nuances of the B7 markscheme becomes essential. This comprehensive article delves into the intricacies of the OCR 21st Century Chemistry B7 markscheme, exploring its structure, application, common challenges, and implications for teaching and learning.

Understanding the OCR 21st Century Chemistry B7 Markscheme

Context and Purpose

The OCR (Oxford, Cambridge and RSA Examinations) 21st Century Chemistry B7 paper is part of a series designed to assess students' understanding of core chemistry concepts. The markscheme serves as a standardized guideline for examiners, ensuring uniformity in grading and clarity in evaluating student responses. Its primary purpose is to:

- Provide detailed criteria for awarding marks
- Clarify acceptable responses and common misconceptions
- Facilitate consistent grading across exam sessions
- Support teachers in preparing students effectively

Understanding the structure and content of the markscheme is vital for both examiners and students aiming to optimize performance.

Structure of the Markscheme

The OCR B7 markscheme typically features a hierarchical structure comprising:

- Levels or bands: Indicating the quality of responses, from basic understanding to detailed, accurate explanations.
- Mark ranges: Offering guidance on points awarded for specific responses.
- Indicative content: Outlining essential points that responses should include to achieve particular marks.
- Rubrics for each question: Detailing how marks are allocated based on the accuracy and completeness of answers.

This structured approach allows examiners to assess responses systematically and students to identify key areas for revision.

Deep Dive into the Markscheme Components

Question Analysis and Mark Allocation

Each question in the B7 paper is accompanied by a specific markscheme segment, which provides:

- Key points expected: Essential facts or concepts students should mention.
- Common misconceptions: Clarifications on typical errors to distinguish between a correct and partially correct answer.
- Performance criteria: Descriptions of what constitutes a high-quality answer versus a basic one.

For example, in a question related to the electrolysis of aqueous solutions, the markscheme might specify:

- Correct identification of the products at each electrode
- Explanation of ion movement
- Conditions affecting the process

and assign marks accordingly.

Levels of Response and Banding

The markscheme often employs a banding system, categorizing responses into levels such as:

- Level 1: Basic, limited understanding; responses may contain inaccuracies or lack detail.
- Level 2: Partial understanding; responses show some correct concepts but lack depth.
- Level 3: Good understanding; responses are accurate and well-explained.
- Level 4: Excellent understanding; responses demonstrate comprehensive knowledge and analytical insight.

This approach encourages nuanced grading rather than rigid point allocation, rewarding students who demonstrate analytical depth.

Sample Marking Criteria: An Illustrative Breakdown

To illustrate, suppose a question asks: "Explain how the structure of a catalyst affects its function."

The markscheme might allocate points as follows:

- 1 mark: Recognizes that catalysts provide an alternative reaction pathway.
- 1-2 marks: Describes the role of the catalyst's surface or active sites.
- 2-3 marks: Explains how the structure (e.g., surface area, pore size) influences catalytic activity.
- Extra marks: Connects structural features to increased reaction rates or selectivity.

Students' responses are scored based on the inclusion and accuracy of these points, with partial responses earning lower marks.

Application and Practical Use of the Markscheme

For Examiners

Examiners utilize the markscheme to:

- Ensure consistency across marking teams
- Justify awarded marks with explicit criteria
- Identify responses that meet specific performance levels
- Maintain fairness and transparency in grading

Standardization meetings often review sample scripts to calibrate grading standards against the markscheme, particularly for borderline cases.

For Students and Educators

Students benefit from understanding the markscheme by:

- Recognizing key points and keywords to include in answers
- Structuring responses to align with expected content
- Targeting higher-level responses through detailed explanations

Teachers use the markscheme to design practice questions, provide targeted feedback, and develop revision strategies aligned with assessment criteria.

Common Challenges and Critiques of the Markscheme

Ambiguity and Interpretative Variability

Despite its structured design, the markscheme may sometimes be open to interpretation. Variability in examiner judgment can occur when:

- Responses are partially correct but lack specific wording
- Students use unconventional but scientifically valid terminology
- The level of detail varies significantly between responses

To mitigate this, OCR regularly reviews and updates the markscheme, incorporating examiner feedback and sample scripts.

Balancing Rigor and Flexibility

A key critique revolves around the balance between strictness and accommodating alternative correct responses. Excessively rigid criteria may penalize creative but accurate answers, whereas overly lenient standards risk inconsistency.

Effective marking involves:

- Recognizing valid alternative explanations
- Allowing for scientific synonyms
- Rewarding clarity and logical progression

Impact on Teaching and Learning

The emphasis on specific keywords and expected responses can influence teaching strategies, sometimes leading to a 'teaching to the test' mentality. While focusing on the markscheme helps students perform well, it may limit broader conceptual understanding if not balanced appropriately.

Implications for Future Assessment and Educational Practices

Advancing Fairness and Transparency

As education evolves, so does the need for transparent assessment standards. The OCR B7 markscheme exemplifies efforts to provide clear criteria, fostering fairness. Future developments may include:

- Enhanced use of technology for automated marking
- Incorporation of more open-ended questions to assess higher-order thinking
- Continual refinement based on data analysis and examiner feedback

Supporting Diverse Learning Needs

Ensuring the markscheme accommodates diverse student backgrounds and learning styles remains a priority. This includes:

- Clarifying language to reduce misinterpretation
- Providing exemplars of high- and low-scoring responses
- Offering alternative pathways to demonstrate understanding

Conclusion

The OCR 21st Century Chemistry B7 markscheme is more than a grading tool; it encapsulates the standards of scientific understanding and pedagogical priorities within the UK educational context. Its structured approach aims to promote consistency, fairness, and clarity, ultimately enhancing the quality of chemistry education. However, ongoing review and adaptation are essential to address emerging challenges, support diverse learners, and uphold the integrity of assessment practices.

By thoroughly understanding the components, application, and limitations of the B7 markscheme, educators and students can better navigate the assessment landscape, leading to improved teaching strategies and heightened student achievement. As the field of science education continues to advance, so too will the tools that measure and uphold excellence, making the OCR 21st Century Chemistry B7 markscheme a critical component in this ongoing journey.

Question What are the key components of the OCR 21st Century Chemistry B7 markscheme? The markscheme for OCR 21st Century Chemistry B7 typically includes criteria for understanding chemical formulas, equations, calculations, and explanations of chemical concepts, along with marking guidelines for each question to ensure clarity and consistency in grading. **Answer** How can students effectively prepare for the B7 section using the markscheme? Students should familiarize themselves with the markscheme to understand what examiners are looking for, practice past papers, and ensure their answers cover all criteria such as accuracy, explanation, and application of principles to maximize their marks. What are common pitfalls students face when answering questions aligned with the B7 markscheme? Common pitfalls include incomplete calculations, lack of detail in explanations, failure to justify answers, and misinterpretation of the question's requirements, which can lead to lower scores according to the markscheme. How does the markscheme differentiate between different levels of student understanding in B7 questions? The markscheme often allocates marks based on the depth of understanding, with higher marks awarded for detailed explanations, correct reasoning, and application of concepts, while basic or partially correct answers receive fewer marks. Are there any recent updates to the OCR 21st Century Chemistry B7 markscheme that students should be aware of? Students should check the latest OCR official resources as updates may include changes in marking criteria, new example questions, or clarified guidelines to reflect current examination standards. How can teachers use the B7 markscheme to improve student performance? Teachers can use the markscheme to identify common mistakes, design targeted practice questions, provide detailed feedback, and help students understand how to structure their answers to meet the marking criteria effectively. Where can students find official OCR B7 markschemes for practice and revision? Official OCR B7 markschemes can be accessed through the OCR website, the exam board's resource portal, or through approved revision guides and teacher-provided materials that include past paper mark schemes.

Related keywords: OCR 21st Century Chemistry B7, OCR B7 mark scheme, chemistry B7 answers, OCR chemistry B7 solutions, B7 chemistry exam, OCR 21st Century Chemistry B7 notes, B7 chemistry revision, OCR chemistry B7 past papers, B7 chemistry marking guidelines, OCR 21st

Century Chemistry B7 syllabus

Remington pharmaceutical sciences 21st edition

Remington Pharmaceutical Sciences 21st Edition is widely regarded as a cornerstone reference in the field of pharmaceutical sciences. As the definitive resource for students, researchers, and professionals, this comprehensive textbook offers in-depth insights into drug formulation, development, and regulatory considerations. The 21st edition continues the tradition of excellence, integrating the latest scientific advances with practical applications to meet the evolving needs of the pharmaceutical industry.

In this article, we will explore the key features of the **Remington Pharmaceutical Sciences 21st Edition**, its significance in the field, and how it serves as an essential guide for pharmacy professionals and students alike.

Overview of Remington Pharmaceutical Sciences 21st Edition

Historical Significance

Remington's Pharmaceutical Sciences has been a trusted resource since its inception. The 21st edition represents decades of accumulated knowledge, updated to reflect modern pharmaceutical practices. It is named after the pioneering work of the Remington family, whose contributions helped shape the pharmaceutical industry.

Scope and Content

This edition covers a broad spectrum of topics vital to pharmaceutical sciences, including:

- Drug manufacturing and formulation techniques
- Pharmacokinetics and pharmacodynamics
- Biopharmaceutics and drug delivery systems
- Pharmaceutical analysis and quality control
- Regulatory affairs and Good Manufacturing Practices (GMP)
- Emerging trends like nanotechnology and personalized medicine

The comprehensive nature of the book makes it an indispensable resource for understanding both foundational concepts and cutting-edge developments.

Key Features of the 21st Edition

Updated Content Reflecting Recent Advances

One of the most notable aspects of the **Remington Pharmaceutical Sciences 21st Edition** is its incorporation of the latest scientific research and technological innovations. The edition highlights advancements such as:

- Nanomedicine and targeted drug delivery
- Biopharmaceuticals and biosimilar drugs
- Regulatory changes in global markets
- Innovations in drug stability and storage

This ensures that readers are equipped with current knowledge applicable in today's fast-paced pharmaceutical landscape.

Enhanced Visuals and Illustrations

To facilitate understanding, the 21st edition features:

- High-quality diagrams of drug delivery systems
- Flowcharts illustrating manufacturing processes
- Tables summarizing regulatory guidelines

These visual aids help clarify complex concepts, making the textbook accessible for learners at various levels.

Inclusion of Case Studies and Real-World Applications

Practical application is emphasized through:

- Case studies on drug formulation challenges
- Examples of regulatory approval processes
- Discussions on current industry practices

This approach bridges theory and practice, preparing readers for real-world scenarios.

Importance in Pharmaceutical Education and Industry

Educational Value

Remington's textbook remains a fundamental resource for pharmacy students, offering:

- Comprehensive coverage of core subjects
- Structured chapters for progressive learning
- Review questions and summaries for self-assessment

Its detailed explanations and authoritative content make it ideal for coursework, exam preparation, and continuing education.

Industry Relevance

For professionals, the 21st edition provides:

- Guidance on formulation development and optimization
- Insights into regulatory compliance and documentation
- Strategies for quality assurance and control

Staying updated with this resource can enhance compliance, innovation, and efficiency in pharmaceutical manufacturing.

How to Access Remington Pharmaceutical Sciences 21st Edition

Purchasing Options

The textbook is available through various channels:

- **Bookstores:** Major academic and specialty bookstores
- **Online Retailers:** Amazon, eBay, and other e-commerce platforms
- **Digital Versions:** E-books and online subscriptions

Libraries and Institutional Access

Many universities and research institutions provide access to the **Remington Pharmaceutical Sciences 21st Edition** via their library systems, either in print or online.

Conclusion: Why Remington Pharmaceutical Sciences 21st Edition is

a Must-Have

The **Remington Pharmaceutical Sciences 21st Edition** continues to be an authoritative and comprehensive resource that bridges fundamental science and practical application. Its updated content, visual aids, and real-world case studies make it invaluable for students and industry professionals aiming to excel in pharmaceutical sciences. Whether you're seeking to deepen your understanding of drug formulation, stay current with regulatory changes, or explore emerging technologies, this edition provides the essential knowledge needed to thrive in the dynamic world of pharmaceuticals.

For anyone committed to excellence in pharmaceutical research, development, and manufacturing, acquiring and studying the **Remington Pharmaceutical Sciences 21st Edition** is an investment in your professional growth and success.

Remington Pharmaceutical Sciences 21st Edition is widely regarded as a cornerstone reference in the field of pharmaceutical sciences. As the 21st edition, it reflects the latest advances, research, and comprehensive knowledge that professionals, students, and educators in pharmacy and related disciplines rely upon. This edition continues the tradition of providing in-depth, authoritative content that supports a broad spectrum of pharmaceutical topics, from drug formulation and delivery systems to pharmacokinetics and regulatory considerations. Its extensive scope, detailed explanations, and practical insights make it an indispensable resource for those committed to excellence in pharmaceutical sciences.

Overview of Remington Pharmaceutical Sciences 21st Edition

Remington's Pharmaceutical Sciences has a longstanding history, dating back over a century, as a definitive guide in the industry. The 21st edition maintains this legacy by integrating current scientific knowledge with practical applications. It is structured to serve as both a textbook for students and a reference for practicing professionals.

The book is organized into several sections, each dedicated to a core area of pharmaceutical sciences:

- Pharmaceutical Chemistry
- Pharmaceutics
- Pharmacology
- Pharmacokinetics and Pharmacodynamics
- Pharmaceutical Analysis
- Regulatory Affairs and Quality Assurance

This organization ensures a logical flow, helping readers navigate complex topics with clarity.

Content Quality and Depth

Remington's 21st edition offers highly detailed and meticulously researched content. It emphasizes the scientific principles that underpin pharmaceutical practices while also addressing real-world applications. The language is precise yet accessible, making complex concepts understandable for students while providing depth for seasoned professionals.

Features include:

- Up-to-date research findings and references.
- In-depth explanations of drug design, stability, and delivery systems.
- Comprehensive coverage of biopharmaceutics and pharmacokinetics.
- Inclusion of recent advances such as nanotechnology, targeted delivery, and biopharmaceutics.

Pros:

- Extensive referencing allows for further research.
- Broad coverage ensures no major area is overlooked.
- Clear diagrams and tables facilitate understanding.

Cons:

- The depth may be overwhelming for beginners.
- Some sections could benefit from more recent case studies or practical examples.

Organization and Usability

The 21st edition maintains a logical structure, with chapters systematically progressing from foundational concepts to advanced topics. Each chapter begins with an overview and learning objectives, helping readers focus on key points. The inclusion of summaries and review questions at the end of chapters enhances comprehension.

Features:

- Well-organized subsections for targeted study.
- Cross-references to related topics.
- Glossary of key terms.

Pros:

- Facilitates self-study and review.
- Modular design allows quick reference to specific topics.

Cons:

- The sheer volume of information can be daunting.
- Some chapters may feel densely packed, requiring careful reading.

Illustrations and Visual Aids

Visual aids are integral to understanding complex pharmaceutical concepts. Remington 21st edition includes numerous high-quality diagrams, chemical structures, flowcharts, and tables.

Features:

- Clear chemical structure illustrations.
- Process flow diagrams for manufacturing and drug delivery.
- Comparative tables summarizing properties of drugs and excipients.

Pros:

- Enhances visual learning.
- Clarifies complex mechanisms and processes.

Cons:

- Some illustrations could be more detailed or labeled for clarity.
- A few diagrams may appear outdated compared to newer digital formats.

Updates and Relevance

One of the most significant strengths of this edition is its incorporation of recent developments in pharmaceutical sciences. Topics such as nanomedicine, gene therapy, personalized medicine, and biopharmaceuticals are given dedicated attention, reflecting the current trends shaping the industry.

Features:

- Recent regulatory updates from agencies like the FDA and EMA.
- New chapters or sections on innovative drug delivery systems.
- Latest advancements in analytical techniques.

Pros:

- Ensures readers stay current with industry standards.
- Supports research and development efforts.

Cons:

- Rapid evolution of the field may mean some content becomes outdated quickly.
- Some emerging topics may still require further expansion.

Practical Applications and Case Studies

While primarily a theoretical and reference book, the 21st edition attempts to bridge theory and practice through examples and case studies. These are particularly useful for students and professionals involved in research and development.

Features:

- Real-world pharmaceutical formulation examples.
- Case studies on drug stability and delivery challenges.
- Regulatory approval scenarios.

Pros:

- Enhances understanding of real industry issues.
- Encourages critical thinking and problem-solving.

Cons:

- Limited number of case studies compared to specialized texts.
- Some examples may be simplified and not reflect current industry complexities.

Pros and Cons Summary

Pros:

- Authoritative, comprehensive coverage.
- Up-to-date with recent scientific and regulatory developments.
- Well-organized with accessible language.
- Rich in diagrams and tables for clarity.
- Suitable for both students and professionals.

Cons:

- Dense content may be challenging for newcomers.
- Can be overwhelming due to extensive depth.
- Some illustrations and case studies could be more current or detailed.
- The high price point might be a barrier for some users.

Target Audience

The Remington Pharmaceutical Sciences 21st edition is ideal for:

- Graduate and postgraduate students in pharmacy, pharmaceutical sciences, and related fields.
- Researchers involved in drug development and formulation.
- Regulatory affairs professionals.
- Industry practitioners seeking a comprehensive reference.

Its broad scope makes it suitable for both academic settings and industry use, providing foundational knowledge as well as insights into cutting-edge topics.

Conclusion

The Remington Pharmaceutical Sciences 21st Edition stands out as a definitive, authoritative

resource that continues to uphold its reputation as a comprehensive guide in pharmaceutical sciences. Its meticulously curated content, recent updates, and detailed explanations make it invaluable for those aiming to deepen their understanding or stay current with industry standards. While its extensive volume and depth may pose challenges for absolute beginners, advanced students and professionals will find it an indispensable reference. Overall, it embodies a blend of scientific rigor and practical insights, ensuring readers are well-equipped to navigate the evolving landscape of pharmaceutical sciences.

For anyone serious about a career or research in pharmacy, drug development, or related areas, investing in this edition of Remington provides a solid foundation and continuous learning tool that will serve well throughout their professional journey.

Question What are the key updates in the 21st edition of Remington Pharmaceutical Sciences? The 21st edition introduces updated drug classifications, recent advancements in pharmaceutical technology, expanded sections on biopharmaceutics, and revised regulatory information to reflect current industry standards. **Answer** How does the 21st edition of Remington Pharmaceutical Sciences enhance understanding of drug formulation? It provides detailed insights into modern formulation techniques, including nanotechnology, controlled release systems, and biopharmaceutical considerations, supported by new case studies and illustrative diagrams. Is the 21st edition of Remington Pharmaceutical Sciences suitable for pharmacy students and professionals? Yes, it is designed to serve both students and professionals by offering comprehensive, up-to-date information on pharmaceutical sciences, drug development, and manufacturing processes. What new chapters or topics are included in the 21st edition of Remington Pharmaceutical Sciences? The edition includes new chapters on personalized medicine, pharmaceutical biotechnology, and recent regulatory updates, along with expanded content on drug delivery systems and quality control. Where can I access or purchase the 21st edition of Remington Pharmaceutical Sciences? The 21st edition is available through major online bookstores, university libraries, and can be purchased directly from the publisher's website or authorized distributors.

Related keywords: Remington Pharmaceutical Sciences, Remington 21st edition, pharmaceutical reference, drug information, pharmacology textbook, pharmaceutical reference guide, drug development, pharmaceuticals textbook, medicinal chemistry, pharmaceutical sciences textbook

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