

Karin Hess And Depth Of Knowledge Matrix

The Influence of Karin Hess on the Depth of Knowledge Matrix

Every now and then, a topic captures people's attention in unexpected ways, and the Depth of Knowledge (DOK) matrix, developed by Karin Hess, is one such example. This framework has become an essential tool in education, helping teachers and curriculum designers classify tasks according to their complexity and cognitive demand. If you've ever wondered how educators create assessments that truly measure students' thinking, the DOK matrix offers valuable insights.

What is the Depth of Knowledge Matrix?

The Depth of Knowledge matrix is a system that categorizes cognitive tasks into four distinct levels, ranging from simple recall of facts to extended strategic thinking. Unlike Bloom's Taxonomy, which focuses on the type of cognitive process, DOK emphasizes the complexity of the task itself. Karin Hess, an educational researcher, developed this matrix to guide educators in designing curriculum and assessments that challenge students appropriately.

Karin Hess's Contribution to Education

Karin Hess, an expert in educational assessment, created the DOK framework to address a critical gap in evaluating students' learning depth. Her work emphasizes that not all tasks requiring the same content knowledge demand the same level of thinking. For example, recalling a fact about history is different from analyzing causes and effects or creating an argument based on evidence. Hess's matrix helps educators distinguish these differences clearly.

Levels of the Depth of Knowledge Matrix

The matrix is organized into four levels:

1. **Level 1: Recall and Reproduction** – Tasks that involve memorizing and recalling facts, definitions, or procedures.
2. **Level 2: Skills and Concepts** – Tasks requiring some mental processing, such as summarizing or explaining.
3. **Level 3: Strategic Thinking** – Tasks that demand reasoning, planning, and using evidence to support answers.
4. **Level 4: Extended Thinking** – Complex tasks that require synthesis, evaluation, and making connections across concepts over time.

Applications of the DOK Matrix

Educators use the matrix for various purposes:

1. Designing assessments that evaluate different cognitive levels.

2. Guiding instruction to deepen student understanding.
3. Aligning standards with appropriate task complexity.

By applying Hess's DOK matrix, schools aim to move beyond rote memorization, encouraging higher-order thinking skills crucial for success in the 21st century.

Why the DOK Matrix Matters Today

In a rapidly changing world, critical thinking and problem-solving abilities are more important than ever. Hess's Depth of Knowledge matrix provides a roadmap for educators to foster these skills systematically. Its widespread adoption in classrooms, testing agencies, and policy frameworks highlights its significance in shaping effective education.

Final Thoughts

Karin Hess's work on the Depth of Knowledge matrix has left a lasting mark on education. It offers a practical way to understand and apply cognitive rigor in teaching and assessment. For teachers seeking to challenge students appropriately and for learners striving for deep understanding, the DOK matrix is an invaluable guide.

Karin Hess and the Depth of Knowledge Matrix: A Comprehensive Guide

In the realm of education, few frameworks have had as profound an impact as the Depth of Knowledge (DOK) matrix. Developed by Karin Hess, this tool has revolutionized the way educators approach curriculum design, assessment, and instruction. But what exactly is the DOK matrix, and how can it be effectively utilized in the classroom? This article delves into the intricacies of Karin Hess's work, providing a comprehensive overview of the DOK matrix and its implications for modern education.

The Origins of the Depth of Knowledge Matrix

The Depth of Knowledge matrix was initially conceptualized by Karin Hess as a means to categorize the complexity of cognitive demands in educational tasks. Hess's work was influenced by Norman Webb's original Depth of Knowledge levels, which were part of a larger effort to align assessments with the rigor of state and national standards. The DOK matrix expands on these levels, providing a more nuanced framework for educators to evaluate the cognitive complexity of tasks and assessments.

Understanding the Four Levels of DOK

The DOK matrix is structured around four levels, each representing a different depth of cognitive complexity:

1. **Level 1: Recall and Reproduction** - Tasks at this level require students to recall facts, basic concepts, and answers. These are straightforward and do not require complex thinking.
2. **Level 2: Skills and Concepts** - This level involves the application of skills and concepts to perform routine procedures, solve problems, and complete tasks. It requires a deeper understanding than Level 1.
3. **Level 3: Strategic Thinking** - Tasks at this level require students to reason, plan, use evidence, and justify their thinking. These tasks are more complex and require a higher level of cognitive engagement.
4. **Level 4: Extended Thinking** - This is the most complex level, involving tasks that require extensive time and cognitive effort. Students must synthesize information, make connections, and apply knowledge in novel and

complex ways.

Applying the DOK Matrix in the Classroom

The DOK matrix is a powerful tool for educators, providing a framework for designing assessments and instructional activities that align with the cognitive demands of the curriculum. By understanding the different levels of DOK, teachers can create tasks that challenge students to think critically and deeply about the material. This not only enhances student learning but also prepares them for the complexities of the real world.

The Impact of Karin Hess's Work

Karin Hess's work on the Depth of Knowledge matrix has had a significant impact on education. Her framework has been adopted by educators and policymakers worldwide, influencing curriculum design, assessment practices, and instructional strategies. The DOK matrix has also been instrumental in aligning assessments with the rigor of state and national standards, ensuring that students are prepared for the demands of higher education and the workforce.

Conclusion

The Depth of Knowledge matrix is a testament to Karin Hess's contributions to the field of education. Her work has provided educators with a powerful tool for designing assessments and instructional activities that challenge students to think critically and deeply. As education continues to evolve, the DOK matrix will remain a vital resource for educators seeking to enhance student learning and prepare them for the complexities of the 21st century.

Analyzing Karin Hess's Depth of Knowledge Matrix: Context, Impact, and Educational Implications

The Depth of Knowledge (DOK) matrix, conceptualized by Karin Hess, represents a pivotal development in educational assessment and curriculum design. This article delves into the origins, theoretical underpinnings, and consequences of the DOK framework, providing a comprehensive exploration of its role in transforming modern education.

Context and Development

In the early 2000s, the need for more nuanced assessment frameworks became apparent as educators and policymakers grappled with the limitations of traditional evaluation methods. Conventional approaches often failed to differentiate between surface-level memorization and deeper cognitive engagement. Karin Hess, an experienced educational researcher with a background in assessment, developed the Depth of Knowledge matrix to bridge this gap.

Hess's model builds upon and diverges from Bloom's Taxonomy by prioritizing task complexity over the type of cognitive process. This distinction allows for a more precise analysis of what students are asked to do, rather than simply categorizing cognitive skills.

Structural Components of the DOK Matrix

The DOK matrix categorizes tasks into four hierarchical levels:

1. **Recall and Reproduction (Level 1):** Tasks centered on retrieving facts or performing straightforward procedures.
2. **Skills and Concepts (Level 2):** Activities requiring comprehension, application, and basic reasoning.
3. **Strategic Thinking (Level 3):** Assignments demanding planning, reasoning, and evidence-based responses.
4. **Extended Thinking (Level 4):** Tasks involving synthesis, analysis over time, and complex problem-solving.

Cause and Consequence: Addressing Educational Challenges

Hess's DOK matrix emerged from a need to better align educational standards with assessments that truly measure student understanding. By clarifying the cognitive demands of tasks, the matrix assists educators in identifying mismatches between instructional goals and assessment practices.

The consequence of adopting the DOK framework has been a shift towards more rigorous, thoughtful educational experiences. Schools using the matrix report enhanced student engagement and deeper conceptual understanding. Additionally, standardized testing agencies have incorporated DOK levels to refine item development, thereby improving test validity.

Critiques and Limitations

Despite its strengths, the DOK matrix is not without criticism. Some scholars argue that distinguishing between levels can be subjective, leading to inconsistent application. Others note that the matrix focuses primarily on cognitive complexity without fully addressing affective or social dimensions of learning.

Future Directions and Educational Impact

Looking ahead, the DOK matrix continues to influence curriculum development and educational policy. As educators strive to prepare students for complex real-world challenges, frameworks like Hess's provide essential guidance. Integrating DOK with other pedagogical models may further enhance its utility.

Conclusion

Karin Hess's Depth of Knowledge matrix stands as a significant advancement in educational theory and practice. By emphasizing the nuances of cognitive complexity, it reshapes how educators conceive assessments and instruction. While challenges remain, its impact on promoting higher-order thinking and meaningful learning is undeniable.

Karin Hess and the Depth of Knowledge Matrix: An Analytical Perspective

In the ever-evolving landscape of education, few frameworks have garnered as much attention and praise as the Depth of Knowledge (DOK) matrix. Developed by Karin Hess, this tool has become a cornerstone for educators seeking to align assessments with the cognitive demands of the curriculum. But what lies beneath the surface of this seemingly straightforward matrix? This article delves into the analytical aspects of Karin Hess's work, exploring the nuances and implications of the DOK matrix in modern education.

The Theoretical Foundations of the DOK Matrix

The DOK matrix is rooted in the theoretical frameworks of cognitive psychology and educational measurement. Karin Hess's work builds upon Norman Webb's original Depth of Knowledge levels, which were designed to categorize the complexity of cognitive demands in educational tasks. Hess expanded on these levels, providing a more detailed and nuanced framework for educators to evaluate the cognitive complexity of tasks and assessments. This theoretical foundation is crucial for understanding the depth and breadth of the DOK matrix.

Analyzing the Four Levels of DOK

The DOK matrix is structured around four levels, each representing a different depth of cognitive complexity. However, the distinctions between these levels are not always clear-cut. Analyzing the nuances of each level provides a deeper understanding of the cognitive demands they represent:

1. **Level 1: Recall and Reproduction** - Tasks at this level require students to recall facts, basic concepts, and answers. While these tasks may seem simple, they are foundational for more complex cognitive processes.
2. **Level 2: Skills and Concepts** - This level involves the application of skills and concepts to perform routine procedures, solve problems, and complete tasks. The complexity here lies in the ability to apply knowledge in different contexts.
3. **Level 3: Strategic Thinking** - Tasks at this level require students to reason, plan, use evidence, and justify their thinking. The cognitive demand is higher, as students must engage in more complex thought processes.
4. **Level 4: Extended Thinking** - This is the most complex level, involving tasks that require extensive time and cognitive effort. Students must synthesize information, make connections, and apply knowledge in novel and complex ways.

The Role of the DOK Matrix in Curriculum Design

The DOK matrix plays a pivotal role in curriculum design, providing a framework for creating assessments and instructional activities that align with the cognitive demands of the curriculum. By understanding the different levels of DOK, educators can design tasks that challenge students to think critically and deeply about the material. This not only enhances student learning but also prepares them for the complexities of the real world. The analytical application of the DOK matrix in curriculum design is a testament to its effectiveness and relevance in modern education.

The Impact of Karin Hess's Work on Educational Policy

Karin Hess's work on the Depth of Knowledge matrix has had a significant impact on educational policy. Her framework has been adopted by educators and policymakers worldwide, influencing curriculum design, assessment practices, and instructional strategies. The DOK matrix has also been instrumental in aligning assessments with the rigor of state and national standards, ensuring that students are prepared for the demands of higher education and the workforce. The analytical implications of Hess's work extend beyond the classroom, shaping the broader landscape of educational policy and practice.

Conclusion

The Depth of Knowledge matrix is a testament to Karin Hess's contributions to the field of education. Her work has provided educators with a powerful tool for designing assessments and instructional activities that challenge students to think critically and deeply. As education continues to evolve, the DOK matrix will remain a vital resource for educators seeking to enhance student learning and prepare them for the complexities of the 21st

century. The analytical perspective on Karin Hess's work highlights the depth and breadth of her contributions, ensuring that her legacy continues to shape the future of education.

Choosing to explore Karin Hess And Depth Of Knowledge Matrix often starts with curiosity. Sometimes the goal is clear, sometimes it is simply a desire to understand something better. Having the option to download the book in PDF format makes that first step easier and less intimidating.

When access is simple, learning feels more inviting. There is no need to rearrange schedules or wait for physical availability. The content is ready when the reader is ready, allowing curiosity to turn into action without interruption.

The PDF format offers a comfortable balance between structure and flexibility. Pages remain consistent, sections are easy to follow, and visual elements stay intact. At the same time, readers are free to move through the content at their own pace, skipping ahead or revisiting earlier sections whenever needed.

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Search tools provide practical support. Whether looking for a specific concept or revisiting a key idea, readers can find relevant sections quickly. This efficiency is especially helpful for those who return to the material regularly.

Trust is essential when accessing educational resources. Reliable platforms that offer legal downloads ensure accuracy, security, and peace of mind. Readers can focus fully on understanding the content without unnecessary concerns.

Affordability plays a quiet but important role. When cost barriers are reduced, exploration becomes more open. Readers feel encouraged to learn beyond immediate needs, discovering ideas they may not have sought out otherwise.

Students often appreciate the stability that downloadable books provide. Study materials remain available offline, notes stay organized, and revision becomes less stressful. This steady access supports consistent learning habits.

Professionals approach Karin Hess And Depth Of Knowledge Matrix with practical intent. The ability to consult specific sections when challenges arise makes the book a useful reference over time, not just a one-time read.

Independent learners value freedom. Without deadlines or external expectations, progress unfolds naturally. Downloadable content supports this autonomy by remaining accessible whenever interest returns.

Accessibility features broaden participation. Adjustable text sizes and compatibility with assistive tools help ensure that more readers can engage comfortably with the material.

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The environmental aspect also matters to many readers. Reduced reliance on printed copies contributes to more sustainable learning choices, aligning personal growth with environmental awareness.

Global access connects readers across borders. People from different backgrounds engage with the same material, bringing diverse perspectives that enrich understanding.

Revisiting the content often reveals new insights. As experience grows, the same ideas can take on different meanings, adding depth to understanding.

Rather than pushing readers to finish quickly, Karin Hess And Depth Of Knowledge Matrix invites ongoing engagement. The material remains available, adaptable, and ready to support learning at different stages.

This approach encourages a relaxed relationship with knowledge. Learning becomes something to return to, not something to rush through.

Over time, the presence of a reliable resource builds confidence. Questions feel more manageable when information is always within reach.

In the end, accessing Karin Hess And Depth Of Knowledge Matrix in this way supports steady growth. It blends learning into everyday life, allowing understanding to develop gradually and naturally, guided by curiosity rather than pressure.

Questions & Answers About karin hess and depth of knowledge matrix

No	Question	Answer
1	Who is Karin Hess and what is her role in education?	Karin Hess is an educational researcher known for developing the Depth of Knowledge matrix, a framework that categorizes cognitive tasks by complexity to improve assessment and instruction.
2	What distinguishes the Depth of Knowledge matrix from Bloom's Taxonomy?	While Bloom's Taxonomy focuses on types of cognitive processes, the Depth of Knowledge matrix emphasizes the complexity of the tasks themselves, categorizing them based on the level of cognitive demand required.
3	What are the four levels of the Depth of Knowledge matrix?	The four levels are Level 1: Recall and Reproduction, Level 2: Skills and Concepts, Level 3: Strategic Thinking, and Level 4: Extended Thinking.
4	How is the Depth of Knowledge matrix used in classroom assessments?	Educators use the matrix to design assessments that measure varying cognitive levels, ensuring tasks align with learning objectives and challenge students appropriately.
5	What are some criticisms of the Depth of Knowledge matrix?	Critics point out that the categorization between levels can be subjective and that the matrix focuses mainly on cognitive complexity, potentially neglecting affective and social aspects of learning.
6	Why is the Depth of Knowledge matrix important in modern education?	It helps educators move beyond rote memorization by fostering higher-order thinking and critical reasoning skills essential for success in a complex world.
7	Can the Depth of Knowledge matrix be integrated with other educational frameworks?	Yes, integrating DOK with frameworks like Bloom's Taxonomy or Webb's Depth of Knowledge can provide a more comprehensive approach to teaching and assessment.

8	What impact has Karin Hess's DOK matrix had on standardized testing?	Standardized testing agencies have incorporated DOK levels to develop items that better assess the cognitive demands of tasks, improving test validity and alignment with educational standards.
9	How does the DOK matrix support curriculum development?	It guides curriculum designers in creating learning activities and assessments that promote varying levels of cognitive engagement and depth of understanding.
10	What challenges do educators face when applying the DOK matrix?	Educators may struggle with consistently categorizing tasks into DOK levels and ensuring that assessments holistically address all dimensions of student learning.
11	What are the four levels of the Depth of Knowledge (DOK) matrix?	The four levels of the DOK matrix are: Level 1 (Recall and Reproduction), Level 2 (Skills and Concepts), Level 3 (Strategic Thinking), and Level 4 (Extended Thinking). Each level represents a different depth of cognitive complexity.
12	How does the DOK matrix influence curriculum design?	The DOK matrix provides a framework for creating assessments and instructional activities that align with the cognitive demands of the curriculum. By understanding the different levels of DOK, educators can design tasks that challenge students to think critically and deeply about the material.
13	What is the significance of Karin Hess's work in education?	Karin Hess's work on the Depth of Knowledge matrix has had a significant impact on education. Her framework has been adopted by educators and policymakers worldwide, influencing curriculum design, assessment practices, and instructional strategies.
14	How does the DOK matrix align with state and national standards?	The DOK matrix aligns assessments with the rigor of state and national standards, ensuring that students are prepared for the demands of higher education and the workforce. This alignment helps educators create tasks that challenge students to think critically and deeply about the material.
15	What are the cognitive demands of Level 3 tasks in the DOK matrix?	Level 3 tasks in the DOK matrix require students to reason, plan, use evidence, and justify their thinking. These tasks are more complex and require a higher level of cognitive engagement than Levels 1 and 2.
16	How does the DOK matrix prepare students for the real world?	The DOK matrix prepares students for the real world by challenging them to think critically and deeply about the material. By engaging in tasks that require higher levels of cognitive complexity, students develop the skills and knowledge necessary to navigate the complexities of the real world.
17	What is the role of the DOK matrix in educational policy?	The DOK matrix plays a pivotal role in educational policy by influencing curriculum design, assessment practices, and instructional strategies. Its framework ensures that assessments align with the rigor of state and national standards, preparing students for higher education and the workforce.
18	How does the DOK matrix enhance student learning?	The DOK matrix enhances student learning by providing a framework for creating assessments and instructional activities that align with the cognitive demands of the curriculum. By engaging in tasks that challenge them to think critically and deeply, students develop a deeper understanding of the material.
19	What are the implications of the DOK matrix for higher education?	The implications of the DOK matrix for higher education are significant. By preparing students to think critically and deeply about the material, the DOK matrix ensures that they are ready for the cognitive demands of higher education. This framework helps students develop the skills and knowledge necessary to succeed in higher education and the workforce.

20	How does the DOK matrix support differentiated instruction?	The DOK matrix supports differentiated instruction by providing a framework for creating assessments and instructional activities that align with the cognitive demands of the curriculum. By understanding the different levels of DOK, educators can design tasks that challenge students to think critically and deeply about the material, catering to the diverse needs and abilities of their students.
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cognitive complexity, critical thinking, curriculum design, depth of knowledge, depth of knowledge matrix, dok levels, dok matrix, educational assessment, educational frameworks, educational policy, higher order thinking, instructional rigor, instructional strategies, karin hess, karin hess education, norman webb, student engagement

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Print preview should always be checked before printing the entire Karin Hess And Depth Of Knowledge Matrix document. Previewing allows you to identify layout issues, blank pages, or formatting errors in advance. Printing a few test pages first is a good practice, especially for large or important documents.

Optimizing Karin Hess And Depth Of Knowledge Matrix for print quality

For the best results, ensure that images within Karin Hess And Depth Of Knowledge Matrix are of sufficient resolution. Low-resolution images may appear blurry or pixelated when printed. Choosing high-quality print settings in your PDF reader can improve output clarity, though it may increase ink usage. Selecting grayscale printing is an option if color is not essential, helping reduce ink costs.

Converting Formats

Converting Karin Hess And Depth Of Knowledge Matrix PDFs into other formats can be useful when editing, repurposing, or extracting content. While PDFs are excellent for viewing and printing, they are not always ideal for direct editing. Converting to formats such as Word, Excel, PowerPoint, or image files can make content modification easier.

Many tools support PDF conversion. Desktop software like Adobe Acrobat, Nitro PDF, and Foxit PDF Editor provide reliable conversion with high accuracy. Online tools such as Smallpdf, iLovePDF, PDF24, and Zamzar offer convenient browser-based conversion without installing software. When converting sensitive documents, offline software is generally safer than online services.

The quality of conversion depends on how the original Karin Hess And Depth Of Knowledge Matrix PDF was created. Text-based PDFs usually convert accurately, preserving paragraphs, headings, and tables. Scanned PDFs, however, require Optical Character Recognition (OCR) to convert images of text into editable content. OCR accuracy may vary, so proofreading after conversion is essential.

Choosing the right output format

Each output format serves a different purpose. Converting Karin Hess And Depth Of Knowledge Matrix to Word format is ideal for text editing and rewriting. Excel format works best for tables, data, and numerical content. Image formats such as JPG or PNG are useful for presentations, previews, or sharing visual snapshots. Selecting the appropriate format ensures efficiency and minimizes the need for additional adjustments.

Editing after conversion

After conversion, formatting inconsistencies may appear, such as misaligned text, altered fonts, or broken tables. Reviewing and correcting these issues is an important step. Keeping a copy of the original Karin Hess And Depth Of Knowledge Matrix PDF ensures you can always reference the original layout if needed.

Adding Passwords

Security is a critical aspect of managing Karin Hess And Depth Of Knowledge Matrix PDFs, especially when dealing with sensitive, confidential, or proprietary information. Adding passwords and setting permissions helps control who can open, edit, print, or copy content from the document.

Many PDF tools allow users to add password protection easily. Adobe Acrobat, for example, offers options to set an open password (required to view the document) and a permissions password (required to edit or print). Other tools such as Foxit, PDF24, and Smallpdf also provide similar security features. Strong passwords combining letters, numbers, and symbols are recommended to enhance protection.

Permission settings allow you to restrict specific actions without blocking access entirely. For instance, you may allow readers to view Karin Hess And Depth Of Knowledge Matrix but prevent printing or text copying. This is useful for distributing previews, internal documents, or study materials while protecting intellectual property.

Best practices for PDF security

When securing Karin Hess And Depth Of Knowledge Matrix, store passwords safely and share them only with authorized users. Avoid using easily guessable passwords. For highly sensitive documents, consider additional security measures such as encryption and digital signatures. Regularly updating PDF software ensures access to the latest security features and vulnerability patches.

Compressing PDFs

Large PDF files can be inconvenient to store, upload, or share, especially via email or messaging platforms with size limits. Compressing Karin Hess And Depth Of Knowledge Matrix reduces file size while maintaining acceptable quality, making distribution faster and more efficient.

Compression tools work by optimizing images, removing redundant data, and restructuring file elements. Many PDF editors and online services provide compression options with different quality levels, allowing users to balance file size and visual clarity. For documents primarily containing text, compression often results in significant size reduction with minimal quality loss.

Online tools such as Smallpdf, iLovePDF, and PDF24 offer quick compression solutions. Desktop applications provide greater control and are preferable for sensitive documents. Always review the compressed file to ensure that text remains readable and images retain sufficient clarity, especially for printed or professional use of Karin Hess And Depth Of Knowledge Matrix.

When to compress Karin Hess And Depth Of Knowledge Matrix

Compression is particularly useful when sharing documents via email, uploading to websites, or storing large

libraries of PDFs. It is also helpful for mobile access, where smaller file sizes reduce storage usage and improve loading times. However, for archival or print-quality purposes, keeping an uncompressed original version is recommended.

Balancing quality and size

Choosing the right compression level is important. Excessive compression can lead to blurred images and reduced readability, while minimal compression may not significantly reduce file size. Testing different compression settings helps find the optimal balance for your specific use case of Karin Hess And Depth Of Knowledge Matrix.

Combining print, conversion, and security workflows

In many cases, users may need to print, convert, secure, and compress Karin Hess And Depth Of Knowledge Matrix as part of a single workflow. For example, a document may be edited after conversion, secured with a password, compressed for sharing, and finally printed. Using reliable tools and following best practices ensures smooth handling at every stage.

Final thoughts on managing Karin Hess And Depth Of Knowledge Matrix PDFs

Printing, converting, securing, and compressing Karin Hess And Depth Of Knowledge Matrix are essential skills for effective document management. By understanding how to optimize print settings, choose the right conversion formats, apply appropriate security measures, and reduce file size responsibly, users can handle PDFs with confidence and efficiency. These practices enhance usability, protect sensitive content, and ensure that Karin Hess And Depth Of Knowledge Matrix remains accessible and professional across different platforms and use cases.