

grade 3 math common core

Grade 3 Math Common Core: Building a Strong Foundation for Young Learners

grade 3 math common core standards play a vital role in shaping the mathematical abilities of children around the age of eight or nine. At this stage, students begin to transition from basic arithmetic and number recognition to more complex concepts like multiplication, division, fractions, and measurement. The Common Core framework helps ensure that all students across different states receive consistent, high-quality math education tailored to their developmental needs. If you're a parent, teacher, or tutor, understanding the grade 3 math common core can help you better support young learners in mastering essential skills.

What Is the Grade 3 Math Common Core?

The grade 3 math common core is a set of academic standards developed to guide instruction and assessment in third-grade mathematics. These standards were created to provide clear and consistent expectations for what students should know and be able to do by the end of the school year. They emphasize not only procedural skills but also conceptual understanding, problem-solving, and reasoning abilities.

One of the key goals of the grade 3 math common core is to deepen students' number sense, allowing them to work confidently with larger numbers and more challenging computations. This foundation is critical as it prepares them for higher-level math concepts encountered in later grades.

Core Domains in Grade 3 Math

The third-grade math curriculum under Common Core is organized into several main domains, each focusing on specific mathematical skills:

- **Operations & Algebraic Thinking:** Introduction to multiplication and division, understanding patterns, and solving word problems.
- **Number & Operations in Base Ten:** Working with place value up to 1,000, rounding numbers, and performing multi-digit addition and subtraction.
- **Number & Operations—Fractions:** Basics of fractions including understanding fraction as part of a whole and comparing fractions.
- **Measurement and Data:** Learning to measure lengths, tell time, and interpret data from graphs and charts.

- **Geometry:** Identifying shapes, understanding their properties, and working with area and perimeter.

Understanding these domains helps educators design lessons that cover the broad spectrum of mathematical concepts third graders need to master.

Why Is the Grade 3 Math Common Core Important?

At this stage, students are expected to shift from counting and simple addition to more abstract mathematical thinking. The grade 3 math common core standards are important because they:

Promote Conceptual Understanding

Rather than memorizing facts blindly, students are encouraged to grasp the “why” and “how” behind mathematical operations. For example, when learning multiplication, they explore it as repeated addition or as groups of objects, which builds a deeper understanding than simply memorizing times tables.

Build Critical Thinking and Problem-Solving Skills

The standards emphasize solving real-world problems, which requires students to apply math knowledge creatively. This approach nurtures critical thinking, enabling children to tackle unfamiliar problems with confidence.

Provide a Consistent Framework

Before Common Core, math education varied widely across states, causing confusion for students who moved or transferred schools. The grade 3 math common core offers a consistent roadmap that ensures all students have access to the same foundational skills, regardless of location.

Key Concepts and Skills in Grade 3 Math Common Core

Let’s explore some of the essential math skills third graders develop under the Common Core standards.

Multiplication and Division Mastery

Third grade is typically when students learn multiplication and division facts up to 10. They begin to understand the relationship between these operations and use strategies such as arrays, equal groups, and skip counting. For instance, visual models like drawing groups of objects help solidify the concept of multiplication as repeated addition.

In addition, students learn to solve word problems involving multiplication and division, which enhances their ability to interpret math in everyday contexts.

Place Value and Number Sense

A strong grasp of place value is crucial in grade 3. Students work with numbers up to 1,000, learning to identify hundreds, tens, and ones places. They also practice rounding numbers and comparing them using greater than, less than, and equal to symbols.

This understanding supports more advanced operations because students can break down numbers into parts that are easier to work with mentally.

Introduction to Fractions

While fractions can be challenging, grade 3 introduces them in a manageable way. Students learn to recognize fractions as parts of a whole and compare simple fractions like $\frac{1}{2}$ and $\frac{1}{4}$. Using visual aids such as fraction bars or circles helps make these abstract ideas concrete.

Understanding fractions early on lays the groundwork for more complex fraction operations in later grades.

Measurement and Data Interpretation

Measurement skills include learning to measure lengths using rulers and understanding units like inches and centimeters. Students also practice telling time to the nearest minute and solving problems related to elapsed time.

Data interpretation involves reading and creating bar graphs, pictographs, and line plots. These activities enhance analytical skills and teach students how to organize and present information visually.

Geometry and Spatial Reasoning

In grade 3, geometry lessons focus on identifying and classifying shapes based on attributes like sides and angles. Students explore concepts of area and perimeter, understanding how to calculate the space inside a shape and the distance around it.

This spatial reasoning is not only important in math but also in everyday problem-solving situations.

Tips to Support Learning Grade 3 Math Common Core

Whether you're a parent or educator, there are practical ways to help students thrive under the grade 3 math common core standards.

Encourage Hands-On Learning

Manipulatives such as counters, blocks, or fraction tiles can make abstract math concepts tangible. For example, using blocks to build arrays can help children visualize multiplication problems.

Use Real-Life Examples

Incorporate math into daily activities like cooking, shopping, or measuring objects around the house. This approach helps students see the relevance of math beyond the classroom.

Practice Word Problems Regularly

Word problems improve comprehension and critical thinking. Encourage students to read problems carefully, identify the question, and decide which operation to use.

Leverage Technology and Online Resources

There are many educational websites and apps aligned with grade 3 math common core standards. Interactive games and tutorials can make learning fun and provide additional practice.

Focus on Understanding, Not Just Speed

While fluency is important, it's equally crucial that students understand the reasoning behind math operations. Encourage them to explain their thinking, which reinforces concepts and builds confidence.

How Assessment Aligns with Grade 3 Math Common Core

Assessments based on the grade 3 math common core are designed to evaluate both procedural skills and conceptual understanding. These can take the form of quizzes, standardized tests, or performance tasks that require students to explain their reasoning.

Educators use assessment data to identify areas where students may struggle and adjust instruction accordingly. For example, if a student finds fractions difficult, additional targeted practice can be provided to strengthen that skill.

Because these standards are consistent across many states, assessment results can offer meaningful insights into how students are progressing in comparison to their peers nationally.

The Path Forward Beyond Grade 3 Math Common Core

Mastering third-grade math common core concepts sets students up for success in more advanced math topics such as multiplication and division of larger numbers, fractions with like denominators, and introductory concepts in geometry and measurement.

As students grow, they will build on this foundation to develop algebraic thinking, work with decimals, and analyze more complex data sets. A strong grounding in grade 3 math ensures they are ready to tackle these challenges with confidence.

By understanding what the grade 3 math common core entails and how to support learners effectively, parents and educators can help children not only meet but exceed expectations, fostering a lifelong love for math.

Frequently Asked Questions

What are the key topics covered in Grade 3 Common Core Math?

Grade 3 Common Core Math focuses on multiplication and division within 100, understanding fractions as numbers, solving problems involving the four operations, and understanding concepts of area and perimeter.

How does Grade 3 Common Core Math approach multiplication and division?

It introduces multiplication and division as related operations, encourages understanding of multiplication as repeated addition, and division as finding how many groups or how many in each group, focusing on facts within 100.

What fraction concepts are taught in Grade 3 Common Core Math?

Students learn to understand fractions as numbers on the number line, recognize fractions as parts of a whole, compare fractions with the same numerator or denominator, and understand equivalence of fractions.

How is problem-solving emphasized in Grade 3 Common Core Math?

Students are encouraged to solve word problems involving multiplication, division, and fractions using visual models, equations, and strategies to develop reasoning and critical thinking.

What role does geometry play in Grade 3 Common Core Math?

Students learn to identify and describe shapes, understand concepts of area and perimeter, and use these concepts to solve real-world and mathematical problems.

Are there specific standards for understanding place value in Grade 3 Common Core Math?

Yes, students develop an understanding of place value up to 1,000, including reading, writing, and comparing numbers, and using place value concepts to perform operations.

How can parents support their children in Grade 3 Common Core Math?

Parents can support by practicing multiplication and division facts, using

everyday examples to explain fractions and measurement, encouraging problem-solving skills, and utilizing online resources aligned with Common Core standards.

What types of assessments are used to evaluate Grade 3 Common Core Math proficiency?

Assessments include standardized tests aligned with Common Core, classroom quizzes, performance tasks involving real-world problems, and formative assessments to monitor ongoing understanding.

Additional Resources

Grade 3 Math Common Core: An In-Depth Analysis of Curriculum and Implementation

grade 3 math common core represents a critical stage in the K-12 educational trajectory, wherein students transition from foundational mathematical concepts to more complex problem-solving and analytical thinking. As part of the Common Core State Standards (CCSS) initiative, the grade 3 math curriculum aims to establish a consistent framework for learning objectives across states, promoting mathematical fluency and conceptual understanding. This article explores the structure, objectives, and impact of grade 3 math common core, providing an analytical perspective on its content, pedagogical approaches, and practical implications for educators and students alike.

Understanding the Structure of Grade 3 Math Common Core

The grade 3 math common core curriculum is organized around key domains that reflect essential strands of mathematical knowledge. These domains include Operations and Algebraic Thinking, Number and Operations in Base Ten, Number and Operations—Fractions, Measurement and Data, and Geometry. Each domain encapsulates specific standards designed to progressively build students' skills and reasoning abilities.

At this grade level, students are expected to deepen their understanding of multiplication and division, develop fluency with multi-digit arithmetic, and begin working with fractions as numbers. The Common Core emphasizes not only procedural skills but also the conceptual underpinnings that enable students to apply mathematics in varied contexts.

Key Domains and Learning Objectives

- **Operations and Algebraic Thinking:** Students learn to interpret multiplication and division problems, understand properties of multiplication, and solve problems involving the four operations.
- **Number and Operations in Base Ten:** Emphasis is placed on place value comprehension, rounding, and performing multi-digit arithmetic with accuracy and efficiency.
- **Number and Operations—Fractions:** For the first time, students work extensively with fractions, recognizing them as numbers on the number line and understanding equivalence and ordering.
- **Measurement and Data:** Students measure lengths, understand concepts of time and money, and represent and interpret data using graphs.
- **Geometry:** This domain involves reasoning about shapes, understanding area and perimeter, and identifying properties of two- and three-dimensional figures.

Pedagogical Approaches in Grade 3 Math Common Core

The Common Core standards advocate for teaching methods that balance procedural fluency with conceptual understanding. In grade 3, this translates to using visual models, manipulatives, and real-world applications to facilitate deeper engagement. For example, fraction concepts are often introduced using number lines or pie charts, enabling students to visualize part-whole relationships.

Moreover, the standards encourage mathematical reasoning and explanation. Students are prompted to justify their solutions, compare problem-solving strategies, and engage in discussions that refine their critical thinking. This approach contrasts with traditional rote memorization, aiming to foster long-term retention and flexibility.

Integration of Technology and Assessment

In recent years, technology integration has become a significant aspect of grade 3 math common core implementation. Digital tools and interactive platforms support personalized learning, allowing students to practice skills at their own pace. Additionally, formative assessments aligned with the standards provide timely feedback to educators about student progress, enabling targeted interventions.

Standardized testing, often aligned with Common Core benchmarks, offers data-

driven insights but has also sparked debates regarding its impact on teaching quality and student stress levels. Nonetheless, these assessments intend to ensure consistency in educational outcomes across diverse districts.

Comparative Perspectives and Challenges

Comparing grade 3 math common core with previous state standards reveals a shift toward deeper conceptual focus and coherence of learning goals across grades. Whereas earlier curricula might have presented topics in isolation, the Common Core emphasizes connections between concepts, such as linking multiplication with division and fractions with whole numbers.

However, this shift has not been without challenges. Teachers often report the need for extensive professional development to adapt to the new standards and instructional methods. Additionally, some parents express concerns about the perceived complexity of the curriculum, highlighting a communication gap between schools and families.

Advantages and Criticisms

- **Advantages:**

- Uniformity in educational expectations across states.
- Focus on critical thinking and problem-solving skills.
- Preparation for higher-level math through gradual skill building.
- Use of real-world applications to enhance relevance.

- **Criticisms:**

- Implementation inconsistencies due to varying resources.
- Increased pressure on students and educators due to standardized testing.
- Initial learning curve for teachers unfamiliar with the approach.
- Concerns over reduced emphasis on creative or exploratory math activities.

Resources and Support for Mastery of Grade 3 Math Common Core

To support mastery of grade 3 math common core standards, educators and parents can access a variety of resources tailored to the curriculum's objectives. Textbooks aligned with the Common Core provide structured lessons, while online platforms offer interactive exercises and tutorials. Supplemental materials, such as games and manipulatives, further reinforce concepts through engaging formats.

Professional development workshops and collaborative teacher networks are instrumental in sharing best practices and addressing challenges in instruction. Additionally, involving families through clear communication and at-home activities enhances student confidence and achievement.

The ongoing evolution of educational technology and curriculum design continues to shape how grade 3 math common core standards are delivered and experienced. The integration of adaptive learning systems and data analytics promises to refine personalized instruction, ensuring that students' individual learning needs are met effectively.

By maintaining a focus on both conceptual understanding and procedural fluency, grade 3 math common core strives to equip young learners with the foundational skills necessary for future academic success and real-world problem solving. The standards' emphasis on coherence and clarity represents a significant step toward elevating math education nationwide.

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grade 3 math common core: Common Core Standards for Elementary Grades 3-5 Math & English Language Arts Amber Evenson, Monette McIver, Susan Ryan, Amitra Schwols, 2013-03-12 Smart implementation of the Common Core State Standards requires both an overall understanding of the standards and a grasp of their implications for planning, teaching, and learning. This Quick-Start Guide provides a succinct, all-in-one look at * The content, structure, terminology, and emphases of the Common Core standards for mathematics and English language arts in the upper elementary grades. * The meaning of the individual standards within each of the four ELA-literacy strands and five math domains, with an emphasis on areas that represent the most significant changes to business as usual. * How the standards connect across and within strands,

domains, and grade levels to develop foundational language arts, literacy, and mathematics learning--and prepare students for success in the critical middle school years. Here, teachers of grades 3-5 and elementary school leaders will find information they need to begin adapting their practices to help all students master the new and challenging material contained in the standards. A practical lesson planning process to use with the Common Core, based on Classroom Instruction That Works, 2nd Ed., is included, along with six sample lessons. LEARN THE ESSENTIALS OF THE COMMON CORE The grade-level and subject-specific Quick-Start Guides in the Understanding the Common Core Standards series, edited by John Kendall, are designed to help school leaders and school staffs turn Common Core standards into coherent, content-rich curriculum and effective, classroom-level lessons.

grade 3 math common core: Teaching the Common Core Math Standards with Hands-On Activities, Grades 3-5 Judith A. Muschla, Gary R. Muschla, Erin Muschla-Berry, 2014-03-10 Helping teachers prepare elementary students to master the common core math standards With the common core math curriculum being adopted by forty-three states, it is imperative that students learn to master those key math standards. Teaching the Common Core Math Standards with Hands-On Activities, Grades 3-5 is the only book currently available that provides activities directly correlated to the new core curriculum for math. This text assists teachers with instructing the material and allows students to practice the concepts through use of the grade-appropriate activities included. Students learn in different ways, and Teaching the Common Core Math Standards with Hands-On Activities, Grades 3-5 acknowledges that fact through the inclusion of suggestions for variations and extensions of each concept to be used for students with different abilities and learning styles. The activities and lessons are as diverse as the students in your classroom. Inside Teaching with Common Core Math Standards With Hands-On Activities Grades 3-5, you will find: Clear instructions to help you cover the skills and concepts for the new math core curriculum Engaging activities that enforce each core math standard for your students Various suggestions for ways to instruct the concepts to reach the diverse learning styles of your students Complete coverage of mathematical calculations, mathematical reasoning, and problem-solving strategies appropriate for grades 3-5 Teaching the Common Core Math Standards with Hands-On Activities, Grades 3-5 prepares students to achieve success in the important area of mathematics. As your students gain an understanding of the common core standards, they will build confidence in their ability to grasp and manipulate mathematical concepts as they move forward to the next level.

grade 3 math common core: Common Core Math Activities, Grades 6 - 8 Mace, 2015-01-05 Centered around Common Core State Standards, Common Core Math Activities features hands-on lab activities that allow students to explore and gain deeper understanding of mathematical concepts. From Wrapping Packages to Crime Scene Investigation, students will be challenged to pull from previous mathematical knowledge and extend it as they investigate mathematical relationships and concepts. This 96-page resource features teacher pages which include materials, pacing, and helpful tips for each lab. Each activity is designed to help develops problem-solving skills. Mark Twain Media Publishing Company specializes in providing captivating, supplemental books and decorative resources to complement middle- and upper-grade classrooms. Designed by leading educators, the product line covers a range of subjects including mathematics, sciences, language arts, social studies, history, government, fine arts, and character.

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grade 3 math common core: The Teacher's Awesome App Guide 1.5 John F. OSullivan, 2014-10-25

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grade 3 math common core: *Mastering Third Grade Math: Concepts and Skills "Aligned to Common Core"* Silver, Anastasia, Aligned to Common Core! This Mastering Math book is a complete, condensed course of instruction or review for Third Grade Mathematics. Each Mastering Math book is organized according to these five general curriculum threads: Number Sense & Numeration, Measurement, Geometry & Spatial Sense, Patterning & Algebra, and Data Management & Probability. Each topic area contains individual skills and concepts that match the learning expectations of the curriculum. Mastering Math can be used to support the standard classroom curriculum as every learning expectation in the year's curriculum is included. Mastering Math is also an excellent framework for reviewing the full curriculum at home for students who need extra practice. 99 Pages

grade 3 math common core: Common Core Math 4 Today, Grade 3 Erin McCarthy, 2013-05-01 Build a foundation and focus on what matters most for math readiness with Common Core Math 4 Today: Daily Skill Practice for third grade. This 96-page comprehensive supplement contains standards-aligned reproducible activities designed to focus on critical math skills and concepts that meet the Common Core State Standards. Each page includes 16 problems to be completed during a four-day period. The exercises are arranged in a continuous spiral so that concepts are repeated weekly. An assessment for the fifth day is provided for evaluating students' understanding of the math concepts practiced throughout the week. Also included are a Common Core State Standards alignment matrix and an answer key.

grade 3 math common core: Teaching to the Math Common Core State Standards F. D. Rivera, 2014-02-05 This is a methods book for elementary majors and preservice/beginning elementary teachers. It takes a very practical approach to learning to teach elementary school mathematics in an emerging Age of the Common Core State Standards. The Common Core State Standards in Mathematics (CCSSM) is not meant to be "the" official mathematics curriculum; it was purposefully developed primarily to provide clear learning expectations of mathematics content that are appropriate at every grade level and to help prepare all students to be ready for college and the workplace. A quick glance at the Table of Contents in this book indicates a serious engagement with the recommended mathematics underlying the kindergarten through grade 5 portions of the CCSSM first, with issues in content-practice assessment, learning, teaching, and classroom management pursued next and in that order. In this book we explore what it means to teach to the CCSSM within

an alignment mindset involving content-practice learning, teaching, and assessment. The CCSSM content standards, which pertain to mathematical knowledge, skills, and applications, have been carefully crafted so that they are teachable, learnable, coherent, fewer, clearer, and higher. The practice standards, which refer to institutionally valued mathematical actions, processes, and habits, have been conceptualized in ways that will hopefully encourage all elementary students to engage with the content standards more deeply than merely acquiring mathematical knowledge by rote and imitation. Thus, in the CCSSM, proficiency in content alone is not sufficient, and so does practice without content, which is limited. Content and practice are both equally important and, thus, must come together in teaching, learning, and assessment in order to support authentic mathematical understanding. This blended, multisourced text is a “getting smart” book. It helps elementary majors and preservice/beginning elementary teachers work within the realities of accountable pedagogy and develop a proactive disposition that is capable of supporting all elementary students in order for them to experience growth in mathematical understanding necessary for middle school and beyond, including future careers.

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Grade 3 review material, practice test questions, and test-taking strategies contained in this Test Prep Books study guide.

grade 3 math common core: Eureka Math Curriculum Study Guide Common Core, 2015-03-23 Eureka Math is a comprehensive, content-rich PreK-12 curriculum that follows the focus and coherence of the Common Core State Standards in Mathematics (CCSSM) and carefully sequences the mathematical progressions into expertly crafted instructional modules. The companion Study Guides to Eureka Math gather the key components of the curriculum for each grade into a single location, unpacking the standards in detail so that both users and non-users of Eureka Math can benefit equally from the content presented. Each of the Eureka Math Curriculum Study Guides includes narratives that provide educators with an overview of what students should be learning throughout the year, information on alignment to the instructional shifts and the standards, design of curricular components, approaches to differentiated instruction, and descriptions of mathematical models. The Study Guides can serve as either a self-study professional development resource or as the basis for a deep group study of the standards for a particular grade. For teachers who are new to the classroom or the standards, the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful. Teachers familiar with the Eureka Math curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that highlights the coherence between modules and topics. The Study Guides allow teachers to obtain a firm grasp on what it is that students should master during the year. The Eureka Math Curriculum Study Guide, Grade 4 provides an overview of all of the Grade 4 modules, including Place Value, Rounding, and Algorithms for Addition and Subtraction; Unit Conversions and Problem Solving with Metric Measurement; Multi-Digit Multiplication and Division; Angle Measure and Plane Figures; Fraction Equivalence, Ordering, and Operations; Decimal Fractions; and Exploring Measurement with Multiplication.

grade 3 math common core: Teaching English Through ELA, Mathematics, Science, and Social Studies Long Peng, 2022-07-21 Accessible and hands-on, this textbook provides a comprehensive introduction to teaching language through content, an approach known as Content-Based Language Teaching (CBLT). A content-based, language-focused approach to teaching in the disciplines is essential to serving the language and disciplinary needs of English learners (ELs) in the classroom. Guided by learning standards and informed by research, this book demonstrates how content materials in the English Language Arts (ELA), Mathematics, Science, and Social Studies can be harnessed to develop the English language proficiency of ELs as well as advance their disciplinary knowledge and skills. Using content materials in ELA, Mathematics, Science, and Social Studies as a starting point, this textbook illustrates how to teach English as an additional language effectively by integrating language instruction with disciplinary teaching. It showcases numerous learning and instructional activities, complete with targeted language exemplified in sentential and discourse contexts, direct instruction, teacher modeling, guided and individual practices, and assessments, which are further backed up by detailed discussions of their goals, rationales, and implementation. This textbook also features a discussion of differentiation to address the varied needs of students. To further assist readers in determining how to incorporate language instruction, Peng identifies extensive possibilities for language teaching that are based on the same content materials and beyond those targeted by sample learning activities. Each chapter ends with three types of exercises—multiple-choice questions, open-ended discussion questions, and problems of application—to bolster understanding, promote reflection, and encourage application. Complementing the book are additional online resources, including ready-to-use PowerPoints, which are available on the book's webpage at [Routledge.com/9780367521134](https://www.routledge.com/9780367521134). Covering key issues such as characteristics of effective language instruction, differentiation, and the challenges associated with CBLT, this is an essential text in TESOL methods and content-area language teaching, as well as an invaluable resource for pre-service and in-service ESL/EFL teachers and content-area teachers who are interested in furthering their students' language and literacy development.

grade 3 math common core: Language Arts, Grade 3 Amy Payne, 2016-03-07 Weekly

Practice: Language Arts for grade 3 provides daily practice for key concepts such as root words, affixes, story elements, main idea, parts of speech, writing, and more. Complete with flash cards and activities, this series supports classroom success by offering extra practice at home. --Improve students' comprehension skills in the classroom while also providing a way to continue the learning process at home. Weekly Practice: Language Arts for grade 3 allows you to reinforce language arts topics at school and at home by offering 40 weeks of standards-based activities and skill review. The unique layout and engaging exercises keep students interested as they build concept knowledge and essential skills. Reproducible at-home activities and flash cards are also included to encourage the home-to-school connection that's essential for student success. --Weekly Practice is the perfect time-saving resource for creating standards-aligned homework packets and keeping students' skills sharp all year long. The Weekly Practice series for kindergarten to grade 5 provides 40 weeks of comprehensive skill review. Each 192-page supplemental workbook focuses on critical skills and concepts that meet the standards for language arts or math. Designed to help students achieve subject mastery, each book includes four days of practice activities, weekly off-the-page activities, Common Core State Standards alignment matrix, flash cards, and an answer key. Weekly Practice offers an effortless way to integrate language arts or math practice into daily classroom instruction.

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