

Have a great winter break! Please note that AoPS Online will not have classes Dec 21, 2024 through Jan 3, 2025.

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Beast Academy T-Shirt
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Kitchen Table Math 3
MOEMS
Math Olympiad Volume 2
Math Olympiad Volume 3
MATHCOUNTS
Practice Competitions 1
Practice Competitions 2
AMC / USAMO
Contest Problem Book VI
Contest Problem Book VII
Contest Problem Book VIII
Mandelbrot
Mandelbrot Morsels
The Mandelbrot Problem Book
GIFT CERTIFICATES

Need Help?

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[Click here to Ask AoPS!](#)**AoPS Curriculum**

Our curriculum is specifically designed for high-performing math students in grades 5-12. We present a much broader and deeper exploration of challenging mathematics than a typical math curriculum and show students how to apply their knowledge and problem-solving skills to difficult problems. We help students learn the critical problem-solving skills necessary for success at mathematics competitions (such as MATHCOUNTS and the AMC), top universities, and competitive careers.

▼ Introductory Curriculum

Our Introduction series serves as a complete curriculum for students in grades 6-10. The series covers the standard Prealgebra-Algebra-Geometry sequence, but at a more advanced level and with more challenging problems than a typical curriculum. The series also covers important discrete math topics in Counting & Probability and Number Theory that are usually underrepresented in typical middle-school and high-school curricula.

Prealgebra

Richard Rusczyk, David Patrick, Ravi Boppana

Paperback

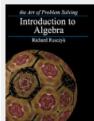
Text: 608 pages. Solutions: 224 pages.

Prealgebra prepares students for the rigors of algebra and also teaches students problem-solving techniques to prepare them for prestigious middle school math contests such as MATHCOUNTS, MOEMS, and the AMC 8. The text is written to challenge students at a much deeper level than a traditional middle school prealgebra course.

Related courses: [Prealgebra 1](#) and [Prealgebra 2](#)

Text and Solutions \$ 59.00

Qty 1

ADD TO CART**Introduction to Algebra**

Richard Rusczyk

Paperback (2nd edition)

Text: 656 pages. Solutions: 312 pages.

A thorough introduction for students in grades 6-9 to algebra topics such as linear equations, ratios, quadratic equations, special factorizations, complex numbers, graphing linear and quadratic equations, linear and quadratic inequalities, functions, polynomials, exponents and logarithms, absolute value, sequences and series, and more!

Related courses: [Introduction to Algebra A](#) and [Introduction to Algebra B](#)

Text and Solutions \$ 67.00

Qty 1

ADD TO CART**Introduction to Counting & Probability**

David Patrick

Paperback (2nd edition)

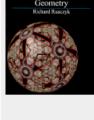
Text: 256 pages. Solutions: 120 pages.

A thorough introduction for students in grades 7-10 to counting and probability topics such as permutations, combinations, Pascal's triangle, geometric probability, basic combinatorial identities, the Binomial Theorem, and more.

Related course: [Introduction to Counting and Probability](#)

Text and Solutions \$ 49.00

Qty 1

ADD TO CART**Introduction to Geometry**

Richard Rusczyk

Paperback (2nd edition)

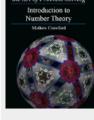
Text: 557 pages. Solutions: 226 pages.

A full course in challenging geometry for students in grades 7-10, including topics such as similar triangles, congruent triangles, quadrilaterals, polygons, circles, funky areas, power of a point, three-dimensional geometry, transformations, introductory trigonometry, and more.

Related course: [Introduction to Geometry](#)

Text and Solutions \$ 65.00

Qty 1

ADD TO CART**Introduction to Number Theory**

Mathew Crawford

Paperback

Text: 336 pages. Solutions: 144 pages.

A thorough introduction for students in grades 7-10 to topics in number theory such as primes & composites, multiples & divisors, prime factorization and its uses, base numbers, modular arithmetic, divisibility rules, linear congruences, how to develop number sense, and more.

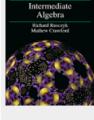
Related course: [Introduction to Number Theory](#)

Text and Solutions \$ 55.00

Qty 1

ADD TO CART**▼ Intermediate Curriculum**

Our Intermediate series serves as a complete curriculum for advanced high-school students. The books in this series are more challenging and rigorous than most standard textbooks and contain many topics not normally covered in the typical high-school curriculum. These books lay a foundation for further study at the university level in higher mathematics, physics, engineering, or computer science.

Intermediate Algebra

Richard Rusczyk and Mathew Crawford

Paperback

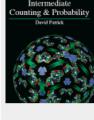
Text: 720 pages. Solutions: 336 pages.

A comprehensive textbook covering Algebra 2 and topics in Precalculus. This book is the follow-up to the acclaimed *Introduction to Algebra* textbook. In addition to offering standard Algebra 2 and Precalculus curriculum, the text includes advanced topics such as those problem solving strategies required for success on the AMC and AIME competitions.

Related course: [Intermediate Algebra](#)

Text and Solutions \$ 74.00

Qty 1

ADD TO CART**Intermediate Counting & Probability**

David Patrick

Paperback

Text: 400 pages. Solutions: 208 pages.

An intermediate textbook in counting and probability for students in grades 9-12, containing topics such as inclusion-exclusion, recursion, conditional probability, generating functions, graph theory, and more.

Related course: [Intermediate Counting and Probability](#)

Text and Solutions \$ 56.00

Qty 1

ADD TO CART**Precalculus**

Richard Rusczyk

Paperback

Text: 960 pages. Solutions: 480 pages.

Text and Solutions \$ 62.00

Qty 1

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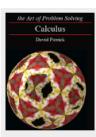


Paperback (2nd edition)

Text: 528 pages. Solutions: 272 pages.

A comprehensive textbook covering precalculus topics. Specific topics covered include trigonometry, complex numbers, vectors, and matrices. Includes many problems from the AIME and USAMO competitions.

Related course: Precalculus



Calculus

David Patrick

Paperback (2nd edition)

Text: 336 pages. Solutions: 128 pages.

A comprehensive textbook covering single-variable calculus. Specific topics covered include limits, continuity, derivatives, integrals, power series, plane curves, and differential equations.

Related course: Calculus

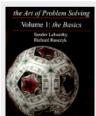
Text and Solutions \$ 59.00

Qty 1

ADD TO CART

▼ Contest Prep Math

Our classic *Art of Problem Solving* texts have been used for over 20 years by students preparing for prestigious math contests such as MATHCOUNTS and the American Mathematics Competitions (AMC). These texts are not just a collection of "tricks": the emphasis is on learning and understanding methods for problem-solving, which enables students to solve a large variety of challenging problems.



Volume 1

Sandor Lehoczky and Richard Rusczyk

Paperback (7th edition)

Text: 288 pages. Solutions: 144 pages.

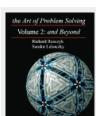
A classic problem solving textbook for students in grades 7-10 who are preparing for contests like MATHCOUNTS and the AMC 8/10/12.

Related courses: MATHCOUNTS/AMC 8 Advanced and AMC 10 Problem Series

Text and Solutions \$ 47.00

Qty 1

ADD TO CART



Volume 2

Richard Rusczyk and Sandor Lehoczky

Paperback (7th edition)

Text: 320 pages. Solutions: 184 pages.

A classic problem solving textbook for students in grades 9-12 who are preparing for advanced high school contests like the AMC 12, AIME, and the Harvard-MIT Mathematics Tournament.

Related courses: AMC 12 Problem Series, AIME Problem Series A, and AIME Problem Series B

Text and Solutions \$ 49.00

Qty 1

ADD TO CART



Competition Math for Middle School

Jason Batterson

Paperback

390 pages.

Contains over 700 examples and problems in the areas of Algebra, Counting, Probability, Number Theory, and Geometry. Examples and full solutions present clear concepts and provide helpful tips and tricks.

Related course: MATHCOUNTS/AMC 8 Basics

\$ 29.50

Qty 1

ADD TO CART

Beast Academy

Beast Academy is our curriculum for students ages 6–13. Each level consists of four units (A through D). Each unit includes both Guide and Practice materials.

- Guide materials are written in an engaging, comic-book style which provides comprehensive, rigorous instruction.
- Practice materials provide hundreds of exercises, problems, puzzles, and games to reinforce the lessons from the Guide.

In Level 1, each unit (A through D) contains both Guide and Practice materials in a single book. In Levels 2-5, the Guide and Practice materials are separated into two books per unit.

Beast Academy covers the core fundamentals and then goes well beyond these basics to present material at a deeper and more challenging level than a typical elementary-school math curriculum.

Visit [BeastAcademy.com](#) to learn more about our Beast Academy Online learning system.

▼ Grade 1



Beast Academy 1A

Jason Batterson. Illustrated by Erich Owen and Sarah Leuver.

\$ 27.00

Qty 1

ADD TO CART

Paperback

216 pages.

Beast Academy 1A is the first part in a four-part series for students ages 6–8. Level 1A includes chapters on counting, shapes, and comparing.



Beast Academy 1B

Jason Batterson. Illustrated by Erich Owen and Sarah Leuver.

\$ 27.00

Qty 1

ADD TO CART

Paperback

240 pages.

Beast Academy 1B is the second part in a four-part series for students ages 6–8. Level 1B includes chapters on addition, subtraction, and categories.



Beast Academy 1C

Jason Batterson. Illustrated by Erich Owen and Sarah Leuver.

\$ 27.00

Qty 1

ADD TO CART

Paperback

248 pages.

Beast Academy 1C is the third part in a four-part series for students ages 6–8. Level 1C includes chapters on addition & subtraction, comparison, and patterns.



Beast Academy 1D

Jason Batterson. Illustrated by Erich Owen and Sarah Leuver.

\$ 27.00

Qty 1

ADD TO CART

Paperback

240 pages.

Beast Academy 1D is the fourth part in a four-part series for students ages 6–8. Level 1D includes chapters on big numbers,

measurement, and problem solving.



Beast Academy Puzzles 1

Chris Page, Jason Batterson, and Anderson Wang. Book design by Doğa Ari.

Paperback

224 Pages.

\$ 10.00

Qty 1 [ADD TO CART](#)

Beast Academy Puzzles 1 contains over 500 puzzles in 12 different styles that will delight puzzle solvers ages 7 and up. It can be used by itself or as a supplement to the full Beast Academy level 1 curriculum.

Grade 2



Beast Academy 2A

Jason Batterson, Kyle Guillet, Chris Page. Illustrated by Erich Owen.

Paperback

Guide: 96 pages. Practice: 136 pages.

Guide and Practice \$ 30.00

Qty 1 [ADD TO CART](#)

Beast Academy Guide 2A and its companion Practice 2A are the first part in a four-part series for students ages 7–9. Level 2A includes chapters on place value, comparing numbers, and addition.



Beast Academy 2B

Jason Batterson, Kyle Guillet, Chris Page. Illustrated by Erich Owen.

Paperback

Guide: 104 pages. Practice: 160 pages.

Guide and Practice \$ 30.00

Qty 1 [ADD TO CART](#)

Beast Academy Guide 2B and its companion Practice 2B are the second part in a four-part series for students ages 7–9. Level 2B includes chapters on subtraction, expressions, and problem solving.



Beast Academy 2C

Jason Batterson, Kyle Guillet, Chris Page. Illustrated by Erich Owen.

Paperback

Guide: 104 pages. Practice: 152 pages.

Guide and Practice \$ 30.00

Qty 1 [ADD TO CART](#)

Beast Academy Guide 2C and its companion Practice 2C are the third part in a four-part series for students ages 7–9. Level 2C includes chapters on measurement, addition and subtraction strategies, and odds & evens.



Beast Academy 2D

Jason Batterson, Kyle Guillet, Chris Page. Illustrated by Erich Owen.

Paperback

Guide: 112 pages. Practice: 160 pages.

Guide and Practice \$ 30.00

Qty 1 [ADD TO CART](#)

Beast Academy Guide 2D and its companion Practice 2D are the fourth part in a four-part series for students ages 7–9. Level 2D includes chapters on big numbers, algorithms, and problem solving.



Beast Academy Puzzles 2

Chris Page, Palmer Mebane, and Jason Batterson. Book design by Doğa Ari.

Paperback

200 pages.

\$ 10.00

Qty 1 [ADD TO CART](#)

Beast Academy Puzzles 2 contains over 400 puzzles in 12 different styles that will delight puzzle solvers ages 7 and up. It can be used by itself or as a supplement to the full Beast Academy level 2 curriculum.

Grade 3



Beast Academy 3A

Jason Batterson, Shannon Rogers. Illustrated by Erich Owen.

Paperback

Guide: 104 pages. Practice: 128 pages.

Guide and Practice \$ 30.00

Qty 1 [ADD TO CART](#)

Beast Academy Guide 3A and its companion Practice 3A are the first part in a four-part series for students ages 8–10. Level 3A includes chapters on shape classification, skip-counting, and perimeter and area.



Beast Academy 3B

Jason Batterson, Shannon Rogers. Illustrated by Erich Owen.

Paperback

Guide: 104 pages. Practice: 128 pages.

Guide and Practice \$ 30.00

Qty 1 [ADD TO CART](#)

Beast Academy Guide 3B and its companion Practice 3B are the second part in a four-part series for students ages 8–10. Level 3B includes chapters on multiplication, perfect squares, and the distributive property.



Beast Academy 3C

Jason Batterson, Shannon Rogers. Illustrated by Erich Owen.

Paperback

Guide: 112 pages. Practice: 144 pages.

Guide and Practice \$ 30.00

Qty 1 [ADD TO CART](#)

Beast Academy Guide 3C and its companion Practice 3C are the third part in a four-part series for students ages 8–10. Level 3C includes chapters on variables, division, and units and measure.



Beast Academy 3D

Jason Batterson, Shannon Rogers. Illustrated by Erich Owen.

Paperback

Guide: 112 pages. Practice: 160 pages.

Guide and Practice \$ 30.00

Qty 1 [ADD TO CART](#)

Beast Academy Guide 3D and its companion Practice 3D are the fourth part in a four-part series for students ages 8–10. Level 3D includes chapters on fractions, estimation, and area.



Beast Academy Puzzles 3

Chris Page, Mark Richard, Palmer Mebane, and Jason Batterson. Book design by Doğa Ari.

Paperback

216 pages.

\$ 10.00

Qty 1 [ADD TO CART](#)

Beast Academy Puzzles 3 contains nearly 500 puzzles in 12 different styles that will delight puzzle solvers ages 9 and up. It can be used by itself or as a supplement to the full Beast Academy level 3 curriculum.



Beast Academy Science 3A

Jason Batterson and Stephanie Sadrian. Book design by Doğa Ari. Comic illustrations by Erich Owen and Sarah Leuver.
Paperback
352 Pages.

\$ 48.00

Qty 1 [ADD TO CART](#)

Beast Academy Science 3A is the first part in a two-part series for students 8-10. Level 3A includes chapters on motion, weather, and survival.



Beast Academy Science 3B

Jason Batterson and Stephanie Sadrian. Book design by Doğa Ari. Comic illustrations by Erich Owen and Sarah Leuver.
Paperback
368 Pages.

\$ 48.00

Qty 1 [ADD TO CART](#)

Beast Academy Science 3B is the second part in a two-part series for students 8-10. Level 3B includes chapters on forces, the atmosphere, and traits.

▼ Grade 4



Beast Academy 4A

Jason Batterson, Shannon Rogers. Illustrated by Erich Owen.
Paperback
Guide: 112 pages. Practice: 176 pages.

Guide and Practice \$ 30.00

Qty 1 [ADD TO CART](#)

Beast Academy Guide 4A and its companion Practice 4A are the first part in a four-part series for students ages 9-12. Level 4A includes chapters on shapes, multiplication, and exponents.



Beast Academy 4B

Jason Batterson, Shannon Rogers. Illustrated by Erich Owen.
Paperback
Guide: 112 pages. Practice: 152 pages.

Guide and Practice \$ 30.00

Qty 1 [ADD TO CART](#)

Beast Academy Guide 4B and its companion Practice 4B are the second part in a four-part series for students ages 9-12. Level 4B includes chapters on counting, division, and logic.



Beast Academy 4C

Jason Batterson, Shannon Rogers. Illustrated by Erich Owen.
Paperback
Guide: 112 pages. Practice: 168 pages.

Guide and Practice \$ 30.00

Qty 1 [ADD TO CART](#)

Beast Academy Guide 4C and its companion Practice 4C are the third part in a four-part series for students ages 9-12. Level 4C includes chapters on factors, fractions, and integers.



Beast Academy 4D

Jason Batterson, Shannon Rogers. Illustrated by Erich Owen.
Paperback
Guide: 112 pages. Practice: 152 pages.

Guide and Practice \$ 30.00

Qty 1 [ADD TO CART](#)

Beast Academy Guide 4D and its companion Practice 4D are the fourth part in a four-part series for students ages 9-12. Level 4D includes chapters on fractions, decimals, and probability.



Beast Academy Puzzles 4

Chris Page, Anderson Wang, Palmer Mebane, and Jason Batterson. Book design by Doğa Ari.
Paperback
224 pages.

\$ 10.00

Qty 1 [ADD TO CART](#)

Beast Academy Puzzles 4 contains over 500 puzzles in 12 different styles that will delight puzzle solvers ages 10 and up. It can be used by itself or as a supplement to the full Beast Academy level 4 curriculum.

▼ Grade 5



Beast Academy 5A

Jason Batterson, Shannon Rogers, Kyle Guillet. Illustrated by Erich Owen.
Paperback
Guide: 112 pages. Practice: 160 pages.

Guide and Practice \$ 30.00

Qty 1 [ADD TO CART](#)

Beast Academy Guide 5A and its companion Practice 5A are the first part in a four-part series for students ages 10-13. Level 5A includes chapters on 3D solids, integers, and expressions & equations.



Beast Academy 5B

Jason Batterson, Shannon Rogers, Kyle Guillet. Illustrated by Erich Owen.
Paperback
Guide: 112 pages. Practice: 160 pages.

Guide and Practice \$ 30.00

Qty 1 [ADD TO CART](#)

Beast Academy Guide 5B and its companion Practice 5B are the second part in a four-part series for students ages 10-13. Level 5B includes chapters on statistics, factors & multiples, and fractions.



Beast Academy 5C

Jason Batterson. Illustrated by Erich Owen.
Paperback
Guide: 104 pages. Practice: 160 pages.

Guide and Practice \$ 30.00

Qty 1 [ADD TO CART](#)

Beast Academy Guide 5C and its companion Practice 5C are the third part in a four-part series for students ages 10-13. Level 5C includes chapters on sequences, ratios & rates, and decimals.



Beast Academy 5D

Jason Batterson, Shannon Rogers, Kyle Guillet, and Chris Page. Illustrated by Erich Owen.
Paperback
Guide: 112 pages. Practice: 144 pages.

Guide and Practice \$ 30.00

Qty 1 [ADD TO CART](#)

Beast Academy Guide 5D and its companion Practice 5D are the fourth part in a four-part series for students ages 10-13. Level 5D includes chapters on percents, square roots, and exponents.

Other Books & Gear

In addition to our own AoPS books, we also offer various AoPS paraphernalia and a selection of books from other publishers.

▼ Shirts



Art of Problem Solving T-shirt

Show your AoPS pride with our new AoPS T-Shirt! 100% cotton. All sizes are adult unisex sizes.

\$ 15.00

Size Small ▾

Qty 1

ADD TO CART



Art of Problem Solving Hoodie

Show your AoPS pride in this cozy navy hoodie! All sizes are adult unisex sizes.

\$ 49.99

Size Small ▾

Qty 1

ADD TO CART



Beast Academy T-Shirt

Do math in style with the whole Beast Academy crew! 100% Ringspun cotton T-shirt. We have unisex youth and adult sizes.

\$ 15.00

Size Youth X-Small ▾

Qty 1

ADD TO CART

▼ Kitchen Table Math

The Kitchen Table Math books, by Dr. Chris Wright, are written for parents of children ages 2-8. The books are step-by-step guides to how you can help your child develop strong math skills. They include activities and games that you can use at home with your child, so that you and your child can have fun while developing crucial mathematical skills.



Kitchen Table Math Book 3

Chris Wright

Paperback

254 pages.

\$ 21.95

Qty 1

ADD TO CART

This book covers the non-arithmetic aspects of elementary school mathematics. It starts with chapters on solving equations and then uses that skill to solve many kinds of word problems. This is followed by chapters on reasoning, probability and counting, statistics and graphing, geometry, measurements, and money.

▼ MOEMS

Math Olympiads for Elementary and Middle Schools, founded in 1977, are problem-solving contests for students in grades 4-8. MOEMS publishes the books shown below to help students and teachers prepare for their contests.



MOEMS Contest Problems: Volume 2

Richard Kalman, Ed.

Paperback

309 pages.

\$ 37.95

Qty 1

ADD TO CART

A collection of 425 problems of the Math Olympiads for Elementary and Middle Schools contests, with hints, complete solutions, and problem solving lessons. Ideal for beginners grades 4-8.



MOEMS Contest Problems: Volume 3

Richard Kalman & Nicholas J. Restivo, Eds.

Paperback

294 pages.

\$ 39.95

Qty 1

ADD TO CART

A collection of 400 problems of the Math Olympiads for Elementary and Middle Schools contests from 2005-2013, with hints, complete solutions, and problem solving lessons. Ideal for beginners grades 4-8.

▼ MATHCOUNTS

MATHCOUNTS is the premier mathematics contest for U.S. students in grades 6-8, with over 100,000 students participating annually. AoPS is proud to be a MATHCOUNTS National Sponsor, and we offer two collections of MATHCOUNTS practice competitions, by 2-time National Champion coach Josh Frost.



Practice Competitions for MATHCOUNTS

Josh Frost

Paperback

128 pages.

\$ 35.00

Qty 1

ADD TO CART

A collection of 4 complete practice competitions (including Sprint, Target, and Team rounds) for MATHCOUNTS. Includes full solutions to every problem.



Practice Competitions for MATHCOUNTS Volume 2

Josh Frost

Paperback

144 pages.

\$ 35.00

Qty 1

ADD TO CART

A collection of 4 complete practice competitions (including Sprint, Target, and Team rounds) for MATHCOUNTS. Includes full solutions to every problem.

▼ American Mathematics Competitions

For more than 60 years, students across the country have taken up the challenge of America's longest-running and most prestigious math contests, the American Mathematics Competitions (AMC). Over 300,000 students each year participate in the AMC 8, AMC 10, or AMC 12 contests, with many students continuing on to the invitational AIME and USA(J)MO contests. The Mathematical Association of America administers the contests and publishes a series of books to help students prepare.



Contest Problem Book VI

Leo J. Schneider

Paperback

212 pages.

\$ 35.00

Qty 1

ADD TO CART

Past problems with complete solutions from the American High School Mathematics Exam (now called the AMC 12), which is the first test in the series of contests that determines the United States International Math Olympiad team. This book includes tests from 1989-1994.



Contest Problem Book VII

Harold Reiter

Paperback

183 pages.

\$ 51.00

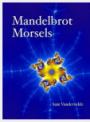
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ADD TO CART

Past problems with complete solutions from the American Mathematics Contests (AMC 10 and AMC 12), which is the first test in the series of contests that determines the United States International Math Olympiad team. This book includes tests from 1995-2000, including the 50th Anniversary AHSME issued in 1999.

▼ Mandelbrot

The Mandelbrot Competition is a year-long high-school-level math contest run by Greater Testing Concepts. The competition was co-founded in 1990 by AoPS founder Richard Rusczyk. Greater Testing Concepts publishes books of past years' contests, written by co-founder and current director Sam Vandervelde.



Mandelbrot Morsels

Sam Vandervelde

Paperback

180 pages.

\$ 25.00

Qty 1

ADD TO CART

Past problems with complete solutions from The Mandelbrot Competition 2002-09. Contains problems that are excellent practice for the American Mathematics Competitions as well as excellent problems for students first learning how to tackle challenging proof problems.



The Mandelbrot Problem Book

Sam Vandervelde

Paperback

148 pages.

\$ 23.00

Qty 1

ADD TO CART

Past problems with complete solutions from years 1995-2002 of The Mandelbrot Competition. Contains problems that are excellent practice for the American Mathematics Competitions as well as excellent problems for students first learning how to tackle challenging proof problems.



Art of Problem Solving is an ACS WASC Accredited School

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