

Paper Folding Conic Sections

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Conic Sections in Clay **Paper Folding Conic Sections**

Wax Paper Folding - Discovering the Conic Sections Learning Goals. Students should get from this activity that the focal diameter of a parabola is exactly four times the... Context for Use. These activities would work well at the high school or college level. In fact, they are "borrowed" from... ..

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On a clean sheet of (patty) paper, draw a small circle and mark a black dot outside the circle, labeling the dot "F." Mark a point on the circle, and fold the paper until F lies directly above that new point, making a neat crease in the paper. Repeat for a few dozen relatively evenly spaced points on the circle. The creases create two curves.

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With each fold a certain amount of paper is lost to potential folding. The loss function for folding paper in half in a single direction was given to be $L = \frac{\pi t}{6(2^n + 4)(2^n - 1)}$, where L is the minimum length of the paper (or other material), t is the material's thickness, and n is the number of folds possible. [18]

Mathematics of paper folding - Wikipedia

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Finally, one for your further mathematicians: it is also possible to explore the conic sections through paper folding. This resource from MathinScience.info shows clearly how, as does this from Compass Learning. And Sarah Carter (@mathequalslove) has written an interesting blog post about the outcome of her wax paper parabola lesson.

Origami in lessons - ARTFUL MATHS

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This volume reflects an appreciation of the interactive roles of subject matter, teacher, student, and technologies in designing classrooms that promote understanding of geometry and space. Although these elements of geometry education are mutually constituted, the book is organized to highlight, first, the editors' vision of a general geometry education; second, the development of student thinking in everyday and classroom contexts; and third, the role of technologies. Rather than looking to high school geometry as the locus--and all too often, the apex--of geometric reasoning, the contributors to this volume suggest that reasoning about space can and should be successfully integrated with other forms of mathematics, starting at the elementary level and continuing through high school. Reintegrating spatial reasoning into the mathematical mainstream--indeed, placing it at the core of K-12 mathematics environments that promote learning with understanding--will mean increased attention to problems in modeling, structure, and design and reinvigoration of traditional topics such as measure, dimension, and form. Further, the editors' position is that the teaching of geometry and spatial visualization in school should not be compressed into a characterization of Greek geometry, but should include attention to contributions to the mathematics of space that developed subsequent to those of the Greeks. This volume is essential reading for those involved in mathematics education at all levels, including university faculty, researchers, and graduate students.

Mathematics research papers provide a forum for all mathematics enthusiasts to exercise their mathematical experience, expertise and excitement. The research paper process epitomizes the

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differentiation of instruction, as each student chooses their own topic and extends it as far as their motivation and desire takes them. The features and benefits of the research paper process offer a natural alignment with all eight Common Core State Standards for Mathematical Practice. Writing Math Research Papers serves both as a text for students and as a resource for instructors and administrators. The Writing Math Research Papers program started at North Shore High School in 1991, and it received the 1997 Chevron Best Practices in Education Award as the premier high school math course in the United States. Author Robert Gerver's articles on high school mathematics research programs were featured in the National Council of Teachers of Mathematics publication *Developing Mathematically Promising Students*, the NCTM's 1999 Yearbook, *Developing Mathematical Reasoning in Grades K – 12*, and in the September 2017 issue of the *Mathematics Teacher*.

Geometric constructions have been a popular part of mathematics throughout history. The first chapter here is informal and starts from scratch, introducing all the geometric constructions from high school that have been forgotten or were never learned. The second chapter formalises Plato's game, and examines problems from antiquity such as the impossibility of trisecting an arbitrary angle. After that, variations on Plato's theme are explored: using only a ruler, a compass, toothpicks, a ruler and dividers, a marked rule, or a tomahawk, ending in a chapter on geometric constructions by paperfolding. The author writes in a charming style and nicely intersperses history and philosophy within the mathematics, teaching a little geometry and a little algebra along the way. This is as much an algebra book as it is a geometry book, yet since all the algebra and geometry needed is developed within the text, very little mathematical background is required. This text has been class tested for several semesters with a master's level class for secondary teachers.

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"This short book, first published in 1897, addresses three geometry puzzles that have been passed down from ancient times. Written for high school students, this book aims to show a younger audience why math should matter and to make the problems found in math intriguing. Klein presents for his readers an investigation of the possibility or impossibility of finding solutions for the following problems in light of mathematics available to him: duplication of the cube trisection of an angle quadrature of the circle
Mathematicians and students of the history of math will find this an intriguing work. German mathematician FELIX KLEIN (1849 1925), a great teacher and scientific thinker, significantly advanced the field of mathematical physics and made a number of profound discoveries in the field of geometry. His published works include Elementary Mathematics from an Advanced Standpoint: Arithmetic, Algebra, Analysis and Elementary Mathematics from an Advanced Standpoint: Geometry."

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