



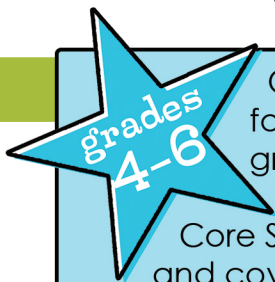
FOLDTASTIC MATHEMATICS



Campers will fold, twist, cut, and create using paper of all kind as they problem-solve their way through this week of mathematical mind-bending, paper-folding fun. Origami and other paper folding activities will have the girls exploring math, art, and engineering-design.



Campers will discover the mysteries of the hexa-hexaflexagon, engineer a BIG paper project, build their own 3-D fractal tetrahedron and all kinds of fantastic fun! Are you ready to get into the fold?



Our camps for fourth to sixth graders align with the Common Core State Standards and cover topics and skills introduced and covered in 4th, 5th, and preview material covered in 6th grade. These camps also give campers opportunities to explore complex mathematical concepts not often included in elementary math curriculum.

Common Core Standards:

CCSS.MATH.PRACTICE.MP1 Make sense of problems and persevere in solving them.

CCSS.MATH.PRACTICE.MP2 Reason abstractly and quantitatively.

CCSS.MATH.PRACTICE.MP3 Construct viable arguments and critique the reasoning of others.

CCSS.MATH.PRACTICE.MP4 Model with mathematics.

CCSS.MATH.PRACTICE.MP5 Use appropriate tools strategically.

CCSS.MATH.PRACTICE.MP6 Attend to precision.

CCSS.MATH.PRACTICE.MP7 Look for and make use of structure.

CCSS.MATH.PRACTICE.MP8 Look for and express regularity in repeated reasoning.



Math Skills in Foldtastic Mathematics:

- Combinations and Permutations
- Comparing fractions
- Data Collection and analysis
- Deductive thinking problems
- Drawing on a coordinate plane
- Equivalent fractions
- Exploring polygons
- Factors and multiples
- Finding the area of a triangle, square, rectangle
- Fractals
- Generating and analyzing patterns (algebraic thinking)
- Geometric Puzzles
- Graphing parabolic curves
- Measuring angles
- Negative Numbers & solving addition & subtraction problems with integers
- Probability
- Radial symmetry
- Represent 3-D figures using nets
- Strategic Problem Solving
- Tessellations
- Topology
- Visual Spatial Problem Solving
- Work with equations involving addition, subtraction, multiplication and division
- Write and evaluate numerical expressions in which letters stand for numbers
- Campers also do an engineering design challenge

