



# ARCHIE'S MATH RESOURCES LIST

## FOR TANGRAM, MAGIC SQUARES & HANOI PUZZLE EXHIBITS

● Manipulatives ● Activities ● Games ● Posters ● Worksheets ● Downloads & Freebies

### TOWER OF HANOI WOODEN PUZZLE GAME

Available from **VOLKSROSE CREATIVE**  
[www.amazon.com/VolksRose](http://www.amazon.com/VolksRose)

Based on an ancient fable, the Tower of Hanoi ring puzzle was invented by a mathematician in 1883, and has challenged monks and mathematicians for centuries! The object of the puzzle is to move all discs from one pole to another, using 2 simple rules: never place a bigger disc over a smaller one and move only 1 disc at a time.

This logic-building exercise is suitable for children of all ages.



Above is a picture of the Tower of Hanoi exhibit used at Archie's Math events



### WOODEN TANGRAM PUZZLE

Available from **GYBBER-MUMU**  
[www.amazon.com/GYBBER-MUMU](http://www.amazon.com/GYBBER-MUMU)

This 7-piece colorful wooden Tangram puzzle is perfect for students of all ages. Well-made and durable, this educational manipulative will help younger students learn simple geometry concepts. This challenging game enhances students' visual perception, develops problem solving skills and builds creative thinking capability. Puzzle size measures 8" x 8" when complete.



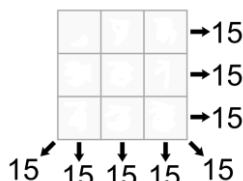
Above is a picture of the tangram puzzle used in the Archie's Math exhibit

### FUN WITH MAGIC SQUARES!!

#### ARISTOTLE'S CLASSIC PUZZLE GAME

From **PROFESSOR PUZZLE**  
[www.professorpuzzle.com](http://www.professorpuzzle.com)

Challenging sudoku-like mathematical brain teaser where each line must add up to 38. Great fun for all ages!

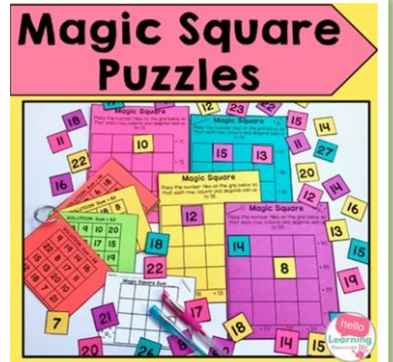


This is the Magic Squares puzzle we use at Archie's Math

#### MAGIC SQUARES WORKSHEETS

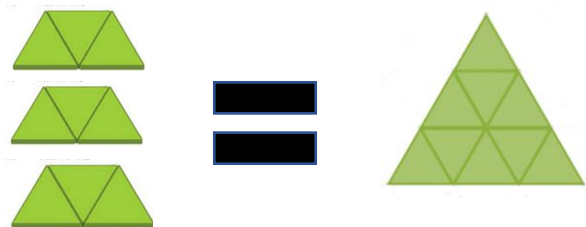
Available from **TEACHERS PAY TEACHERS**  
[www.teacherspayteachers.com](http://www.teacherspayteachers.com)

Kids complete the grids so that each column, row and diagonal adds up to the given magic number. As kids progress thru the worksheets, the challenge increases. Do puzzles without scratch paper to hone your students' mental addition skills.





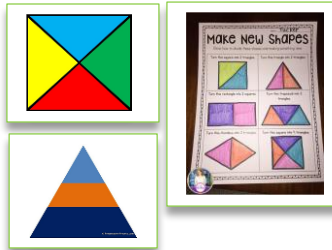
This is the **Trapezoid & Pyramid Puzzle** exhibit used at Archie's Math events. It shows kids how to **transform** one geometric shape into another. Check out these → products/ resources to create your own shape **transformer** puzzles for your classroom!



## D-I-Y Shape Puzzles PATTERN BLOCK SET

Available from **AMAZON**

230-piece set of wooden pattern blocks feature 6 different shapes (square, triangle, hexagon, trapezoid, parallelogram, & rhombus). Create your own fun and problem-solving games by challenging kids to use one shape to create other shapes! Check out website **You Clever Monkey.com** for shape task challenge cards to download! [www.youclevermonkey.com](http://www.youclevermonkey.com)

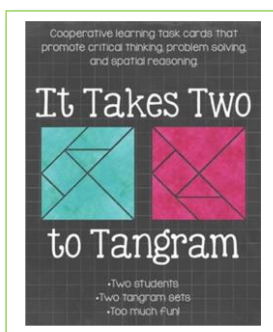


## FOUR TRICKY TWO-WAY PUZZLES

Available from **MATH ART FUN**  
[www.mathartfun.com](http://www.mathartfun.com)



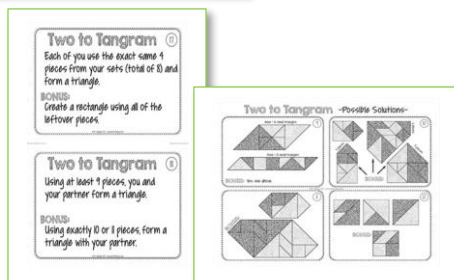
Turn a square into a triangle? How is that possible? Each of the four squares in this set can be transformed into a different geometric shape. See how fast you can solve them. Ages 8 to adult.



## Cooperative Learning Center TANGRAM TASK CARDS

Available from **Teachers Pay Teachers**  
[www.teacherspayteachers.com](http://www.teacherspayteachers.com)

These task cards will engage your kids in fun cooperative learning! Students work in pairs using tangrams to construct shapes.



Kit includes 24 thought-provoking task cards, answer key, and printable tangram shapes. Also, organization & instruction tips!

## RESOURCES/DOWNLOADS/FREEBIES

[www.teacherspayteachers.com](http://www.teacherspayteachers.com) A great resource for teaching aids for all math subjects at all grade levels. Their selection of worksheets and activities is second to none. All items are available as instant digital downloads and cost is minimal.

[www.hand2mind.com](http://www.hand2mind.com) A wide offering of classroom aids for teaching any math category and cover a wide range of age levels. Easy shopping...sort by age, grade or subject. Their product line is consistently high quality and durable as well.

[www.math-salamanders.com](http://www.math-salamanders.com) Wide range of math-focused topics and grade levels. ALL FREE DOWNLOADS. Many options for math puzzles, tangram and sudoku-like brain teaser activities.

[www.discoverytoys.com](http://www.discoverytoys.com) Very interesting and unique product line. Products are arranged by "type of play" categories. Math-focused items were in the categories of "Logic", "Numbers", and "Game Play". Neat products you won't find anywhere else. Lots to love!

[www.professorpuzzles.com](http://www.professorpuzzles.com) This website had some of the best puzzles and math-related games and activities. A large portion of their products are also available on Amazon. The age range of a lot of their products are broad, so you can use them for almost any age group.

[www.puzzles-to-print.com](http://www.puzzles-to-print.com) This website has a great selection of number puzzle, all free and ready for instant download. In addition to Number and Sudoku puzzles, they also have theme, word, brain teasers and printable mazes. A great source!

[www.fatbrain.com](http://www.fatbrain.com) Offers a very comprehensive website. Easy sort by category and age groups. They also offer collections curated for boys or for girls. You will find those unusual teaching items that you won't find elsewhere!

[www.dadsworksheets.com](http://www.dadsworksheets.com), [www.education.com](http://www.education.com), [www.picsdownloadz.com](http://www.picsdownloadz.com) Worksheets galore for all math puzzle subjects!

[www.youclevermonkey.com](http://www.youclevermonkey.com) Teacher Haley O'Connor has some great tips and ideas for her fellow teachers. Check it out!

[www.mathartfun.com](http://www.mathartfun.com) Fun resource for math games, activities, puzzles and more

## “PUZZLES” RESOURCE SHEET – Cost Information

TEACHER  
RESOURCE  
PROGRAM

[www.archiesmath.org](http://www.archiesmath.org)



### SIDE #1:

<u>ITEM DESCRIPTION</u>	<u>Listed Internet Price</u>	<u>Source</u>
(1) Tower of Hanoi Wooden Puzzle Game	\$13.99	<a href="http://www.Amazon/VolksRose">www.Amazon/VolksRose</a>
(2) Wooden Tangram Puzzle	\$6.99	<a href="http://www.Amazon/Gybber-Mumu">www.Amazon/Gybber-Mumu</a>
(3) Aristotle Classic Puzzle	\$22.00	<a href="http://www.professorpuzzle.com">www.professorpuzzle.com</a>
(4) Magic Squares Puzzles Worksheets	\$4.50 PDF download	<a href="http://www.teacherspayteachers.com">www.teacherspayteachers.com</a>

### SIDE #2:

(5) Trapezoid & Pyramid Puzzle General information only – no product offered	N/A	N/A
(6) D-I-Y Pattern block set	\$19.99	<a href="http://www.Amazon/Lovestown">www.Amazon/Lovestown</a>
(7) 4 Tricky Two-Way Puzzles	\$9.95	<a href="http://www.math-art-fun.com">www.math-art-fun.com</a>
(8) It Takes Two to Tangram Task Cards	\$7.00 digital download	<a href="http://www.teacherspayteachers.com">www.teacherspayteachers.com</a>

### **NOTE:**

In researching manipulatives and learning aids for this Teachers Resource Program we selected items that dovetailed with the Archie’s Math exhibits that students and teachers would have experienced at an Archie’s Math event. We also kept in mind the cost outlay to teachers and schools. We found in our research that in many cases there were similar products to choose from, and in varying price ranges. To find additional options than those shown on the Research Sheet be sure to check the **“Resources/Downloads/Freebies”** section at the bottom of each resource sheet for more internet sites offering cost effective teacher aids, activities and worksheets on that subject.