

# Math Outside the Book

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Heppner's Legacy Homeschool Resources - [www.legacyhomeschool.com](http://www.legacyhomeschool.com)  
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## Why Games?

### Working together with your curriculum

#### Understanding Numbers:

- Number Boards, Hundred Boards\*, [Dominoes](#)\*\* , & UNO Cards
- Trip to Grandma's
- [MathLink Cubes](#)\*\* , [Baby Bear Counters](#)\*\*
- Race to 100\*
- Inchworm Number Line\*
- Bean Sticks for Base 10
- Dice Games

#### Attacking Addition Facts:

- Two Card War, "Uno" cards
- "Flip"
- "Stack"
- "10"
- To 12 and Back\*
- Cover Up\*
- Flash Cards\*\*
- [Ninety-Nine or Bust](#)\*\*

#### Mastering Multiplication Facts:

- The Graph Game
- Multiplication Chart\*
- Bathroom Mirrors / Bedroom Ceilings
- X3 – X9 Board Games\*
- 5 in a Row\*
- Uncle Randy's Games\*

#### Taking it one step further:

- Target
- [SMATH](#)\*\*
- [Fraction Circles & Equivalency Discs](#)\*\*

#### Money:

- Menu Math\*
- [Grocery Cart Math](#)\*\*
- [Moneywise Kid\\$](#)\*\*
- [Quick Pix Money](#)\*\*
- [Exact Change](#)\*\*

#### Strategy Games You Can Make or Buy:

- **Backgammon** – A roll of the dice can change the outcome, but strategy plays a big part in who wins.  
Rules: [www.bkgm.com/rules.html](http://www.bkgm.com/rules.html)
- **Chess / Checkers** – No one ever grows out of these strategy games!
- **Cribbage**\*\* – A classic card game with LOTS of addition and decision making.
- **Fifth Gear**\*\* – Addition facts, strategy, and connecting gears make this game a winner.

- **Mancala**\*\* – All you need is a 12 count egg carton and beans or counters.  
Rules: [www.instructables.com/id/How-to-play-MANCALA](http://www.instructables.com/id/How-to-play-MANCALA)
- **Mastermind**\*\* – The ultimate code-breaking game for two players. 3rd+
- **Othello** – Played on an 8x8 board just like checkers and chess. The trick is to have 64 playing pieces with one color on each side. Make your own with wood, cardboard or paper pieces.  
Rules: [www.wikihow.com/Play-Othello](http://www.wikihow.com/Play-Othello)
- **Pente** – Strategy for ages 7-107! Rules: [www.pente.net/instructions.html](http://www.pente.net/instructions.html)
- **RACK-O**\*\* – Use mental strategy to make decisions as you draw and discard trying to get all 10 of your cards in “less than” to “greater than” order. A classic even for young players!
- **SMATH**\*\* – Like Scrabble with numbers and operation signs. A great way to create equations for beginners or those learning the order of operations.

### Some of My Favorites, Surely Not Exhaustive, List of Fun Math Resources:

- **Math Games Galore!**\*\*, by Nancy Bjorkman – This binder of resources includes boards and instructions for 30+ games. P-6<sup>th</sup>
- **Math Games Galore Expansion Pack**\*\*, by Nancy Bjorkman – This binder ready zipper pouch contains all of the tools needed for Math Games Galore. Includes 3 kinds of dice, playing cards, bean sticks, centimeter cubes, flip cards.
- **Games for Math**\*\*, by Peggy Kaye – Great math ideas for K-3rd.
- **Hi-Ho Cherry-O** – A perfect game of counting and understanding numbers. Just right for little learners.
- **Quick Pix**\*\* – Matching games for math (addition / subtraction), multiplication, or money.
- **Audio Memory Math Songs**\*\* – Addition, Subtraction, Multiplication, or Division.
- **Memory Triggers**\*\* – A great little book with catchy ways to remember math terms like “sum”, “difference”, “decade”, etc.
- **Times Tales**\*\* – Wow! Finally a great story based, visual way to learn the upper times tables 3’s through 9’s with NO pain! Mnemonic aids help children remember the facts. Games and activities for reinforcement included. Also check out **Times After the Tales**\*\* to learn more about double digit multiplication and to memorize the 11’s and 12’s.
- **Math Mosaics**\*\* – Treasure hunts and color by number puzzles help kids practice simple arithmetic equations. Addition, Subtraction, Multiplication, Division
- **Math Wrap-Ups**\*\* – Wrap the string to answer the math fact questions. Self-checking!
- **Fraction Circles & Equivalency Discs**\*\* – Use these manipulatives to understand the relationship and operations for fractions, decimals, percents, degrees, and time. Great tools for the hands-on learner.
- **Logic Links**\*\* – This game uses a series of clues to instruct a player where to place colored chips to solve the puzzle, requiring deductive reasoning, and determination!
- **Rush Hour, Rush Hour Jr**\*\* – Single player games using deductive reasoning and sequencing.
- **Mind Benders**\*\* – Deductive thinking puzzles that develop the logic, reading comprehension, and mental organizational skills vital to achieving high grades and top test scores in all subjects. 3rd+
- **Robot Turtles**\*\* or **Code Master**\*\* – Learn programing principles through games.
- **Get Coding**\*\* – For kids, by kids! Learn HTML, CSS, & Javascript and build a website, app and game.
- **Turing Tumble**\*\* – Build mechanical computers powered by marbles to solve logic puzzles, and while you’re at it, you discover how computers work.

\* Black line masters available in **Math Games Galore!**\*\* – Included are game boards and instructions for 30+ games.

\*\*Available from [Heppner's Legacy Homeschool Resources](http://Heppner's Legacy Homeschool Resources)