

Task	Timing	Description
Egg Timer	M, E	Strategic use of egg timers!
Video Game	B, M, E	Simple arithmetic that opens up discussion and argumentation.
Card Tricks	B, M, E	Make sense of the math behind card tricks! (Contains tons of card tricks and videos; would require card decks.)
How Many 7's?	B, M, E	Think about how often certain digits occur.
Split 25	M, E	Starts with simple arithmetic and poses challenge of coming up with a largest possibility
Four Numbers	B, M, E	Make 30 with various numbers and operators
Gold Chain	M, E	Hypothetical thinking problem - payment and splitting a chain
Fox, Chicken, Corn	B, M, E	How can they cross the river? Classic puzzle!
Ted Ed Zombies	M, E	The classic chicken, fox, corn problem with rates and zombies!
Palindromes	M, E	Playing with symmetry and patterns in numbers
Tax Collector	B, M, E	Accessible as young as 4th grade, but engaging for adults too!
Nickels, Dimes and Quarters	B, M, E	Make a dollar with these coins. How many ways can you do it?
Birthday Cake	M, E	Think about distances and placement of various objects.
Painted Cube	B, M, E	Dip a Rubik's Cube in paint. How many sides have paint?
1,001 Pennies	B, M, E	How much money after certain ordering of coins?
Handshake Problem	B, M, E	How many handshakes, if we all shake hands?
Bank Robber	M, E	Help a robber escape. Uses Geometric thinking.
Cup Challenge	B	Build Community and Communication
Personality Coordinates	B, M, E	Great for intro to graphing and also building community!
Kayak	B, M, E	Give a visual. How many paths to spell KAYAK?
3-D Tic Tac Toe	B, M, E	Visual challenge plus play 3-D tic tac toe!
Toothpick Puzzles	B, M, E	Give real toothpicks, if possible. 33 unique toothpick challenges!
Acrobats, Gmas, & Ivan	B, M, E	Humorous and visual systems of equations task!
3 Questions	M, E	Your intuition may fail you! (These are "mathy" non curricular.)

Bellboy and the Missing Dollar	B, M, E	A classic. Money is returned equally. Where is the missing dollar?
Make 100	M, E	Given the digits 1-9, make 100
One to One Hundred	M, E	How can you add the first 100 digits and extensions.
Bees in the Trees	B, M, E	Look for patterns in a bee family tree.
Marching Band	M, E	How many are in a line given different students left over?
Fifteen	B, M, E	Simple and fun game! Try to get 3 numbers to add to 15!
4 Fours	B, M, E	Make #'s 1-10 using only 4 fours.
How to Win at 21	B, M, E	Simple and fun game! Try to force your partner to take last cube.
Frame the Cards	B, M, E	Use cards to make frame with same number of "spots".
Free Throws	B, M, E	Patterns and very open-ended
Seed Numbers	M, E	Number patterns, simple addition
Same Sum	M, E	Figure out missing numbers (primes and addition)
Pirate Diamond	B, M, E	Rig it so you get the diamond!
Mother Daughter Tea Party	B, M, E	More complicated "count the handshakes" problem
Rabbits	B, M, E	How many rabbits, given a reproduction pattern?
Sail Away	B, M, E	Similar to Fox, Chicken, Corn
Jugs - Die Hard 3	M, E	Similar to Egg Timer Problem
How Many Heartbeats?	M, E	Huge conversions to make you think!
Paper to the Moon	B, M, E	How many folds to make a paper thick enough to reach moon?
21 Casks	B, M, E	Need to split equally under tricky conditions.
Skyscrapers	B, M, E	Similar to sudoku, but more accessible. (Give snap cubes!)
Rope around the World	M, E	What If... involving a rope wrapping around the world.
Ten Divisors	M, E	Reasoning about divisors.
Desk Calendar	B, M, E	Reason about digits on date cubes.
Lacrosse Tournament	B, M, E	Tournament Logistics
Checkerboard	B, M, E	How many squares are on a checkerboard? (Not 64!)

Open Lockers	B, M, E	Similar to 1001 pennies
Pennies	M, E	Fraction puzzle
Bears and Apples	M, E	Fraction puzzle
Shapes Rock	M, E	Patterns - Number of diagonals in a 40-gon
Mutilated Chessboard	B, M, E	How can you cover a chessboard that is missing 2 corners?
Unusual Calculator	B, M, E	Similar to 4 Fours. Number puzzle using + and - only.
Mismatched Socks	B, M, E	Matching socks puzzle
Ultimate Tic Tac Toe	B, M, E	Just like it sounds!
Pentagram	B, M, E	Add 2 lines to go from 5 triangles to 10.
Chicken Nuggets	B, M, E	What's the largest # of nuggets you can't combine to buy?
Maximize	B, M, E	Practice arithmetic to get a high score.
Rollover	B, M, E	Play with large numbers and arithmetic (potentially shorter)
Step Up	B, M, E	How many ways can you climb steps?
Multiple Choice Logic	B, M, E	True/False Logic Puzzle
Star Polygons	B, M, E	Visual puzzle with dots and stars.
Space Race	B, M, E	Simple Strategy Board Game
Thirteens	M, E	Arithmetic Puzzle requiring some justification
Eightfold	B, M, E	Physically fold paper to achieve a simple pattern. (has template)
One Big Factor Family	B, M, E	Factor Tree Puzzle (Simple and more straightforward)
Self-Aware	M, E	Number Puzzle
X-Factor	B, M, E	Factor Tree and Network Puzzle
Mountain Ranges	B, M, E	How many ways can you make mountains on isometric paper?
Hexagon Triangulations	B, M, E	Visual - How can you split a hexagon? (Potentially shorter)
Square Cakes	B, M, E	Splitting Squares into squares puzzle
Persistence	B, M, E	Arithmetic Puzzle
No ReCTangles	B, M, E	Try NOT to make rectangles
Plus Minus	M, E	Arithmetic Puzzle - Try to make zero

Digit Bracelets	B, M, E	Addition and Pattern Puzzle
The Fewest Squares	B, M, E	What is the fewest number of squares you can fit?
Marching Band Parade	M, E	GCF
Shaded Area	B, M, E	Find the shaded area (visual puzzle)
How Far Can You Climb	B, M, E	Make a number chain of only increasing numbers.

B - Great for beginning of the year

M - Appropriate for middle of the year

E - Appropriate for end of the year

*If you would like a task added to this table, email it to Whitney Evans (waevans@spsmail.org)