

Outdoor Math Adventures K - 3rd Grade

Summer 2020

Hula Hoop Clock: Grab a hula hoop and chalk. Have your child/children search for sticks and break them to the right lengths for an hour hand and a minute hand. Call out times or write them in chalk using digital time and have your kids move the hands of the hula hoop clock to the correct time.



Water Balloon Math: You will need water balloons, a sharpie, and sidewalk chalk. Choose your number targets. Write the number targets in chalk. Fill up your water balloons and write equations on them. Have your child/children choose a balloon, solve the equation and throw it at the number target once they say the answer out loud.

Example:

Number Targets: 7, 10, 15, 20

Equations: $3+4$, $5+5$, $7+8$, $14+6$

Water Balloon Math
active learning outside



Number Line Race:

Object of the Game: Be the first player to reach 20!

To Play: Each player starts at 0. Take turns drawing a card and add or subtract depending on what it says. (i.e. If you draw "Add 6," you would move from 0 to 6.) If a subtraction card is drawn that cannot be done (i.e. you are on 0 and draw "Subtract 5") simply draw



again (or just don't move and try again on your next turn).

To Win: Be the first player to land on 20 **exactly** (meaning the sum must equal exactly 20. If you're on 18 and you draw "Add 3" you can't move).

Shell Memory Math Game:

1. Gather your materials. You will need some shells, a sharpie , a tray or something else that will keep the shells contained.
2. Write a pair of number names along with the numeral on shells.
3. Arrange the shells face down in random order.
4. Play Memory.



Garden Bed Measurement: Gather some seeds to plant, soil, a ruler, and a gardening shovel. Read the instructions on the seed packet to see how far apart seeds should be planted. Have your child/children measure the distance between seeds with the ruler and then plant!



Beach Ball Facts: This game can be played with as little as one player to a whole large group of players. Before playing, write math facts on the spaces of a beach ball. Choose facts based on your child's grade level. To play alone, the player simply tosses the ball up in the air, catches it, and answers the question closest to him/her on the beach ball. If playing with other children, the ball is tossed back and forth and each player answers the question closest to him when he catches the ball.



Cheese Ball Math: Grab some cardboard, shaving cream, post-it notes, a marker, and some cheeseballs. Write equations on some post-it notes and affix them to the cardboard. Then, add some shaving cream. Have your child read the equations and figure them out. Then have your child throw the corresponding number of cheeseballs at the targets that equaled the answer. (you could use pom poms instead of cheeseballs)



Invisible Man: Draw a man (stick figure with a hat, cane, or whatever you want to add) in the sand, dirt, etc. Ask your child a math question- if they get it right they can erase 1 body part (an arm, a leg, etc.). The goal is to make the man invisible.



Flower Power: For this one, kids draw a basic flower with 10 numbered petals as shown. Then they write a number to multiply (or add or subtract) by in the middle, and fill in the petals with the correct answers.



Bake with Math: Choose a fun recipe to make together! Follow each step and identify each measurement as you go! Enjoy your treat!



UNO Math: Grab your UNO deck and get ready to move! Assign each color a movement (Examples: Red - Hop, Yellow - Stomp, Green - Twirl, Blue - Touch Elbows to Opposite Knees). As kids draw the cards, everyone completes the movement the correct number of times. Skip and Reverse work as usual, but anyone who gets Draw Two has to draw two more cards, and complete the actions on their own while others cheer them on.



Water Balloon Math: You're going to need to be willing to get a little wet for this one, but kids simply adore math games (or any games!) with water balloons. Fill and label balloons numbered 1 through 20 (or whatever numbers you're working on). Draw the numbers in a big circle on the sidewalk. Then have a student choose a balloon, find the matching number, and head off to make a splash!



Bowling Math: Set up empty plastic bottles labeled one through 10 (or your choice of numbers), then roll the ball to see how many you can knock down. Add up or multiply the numbers of the knocked-over bottles to get your score.



A hopscotch board can be used for a lot of fun and active math games. Try it for skip counting: kids hop along counting by 2s, 5s, 10s, or whatever you're currently working on. If you need more guidance on this activity visit:

<https://mathgeekmama.com/skip-counting-hopscotch/>



Painted rocks are always a big hit! Have your child help you make these, then hide them around the house or backyard and send them off to find and answer equations. You can use any operation you'd like. You could even paint fractions on the rocks!



Use items around your house to make your own putt course. This can be a simple game where kids simply shoot for the highest (or lowest) number. But you can also drive up the complexity by putting equations on the cups that kids have to solve first to determine which is the best cup to aim for.

