

A STEM in the Park

Take Home Activity

STEM

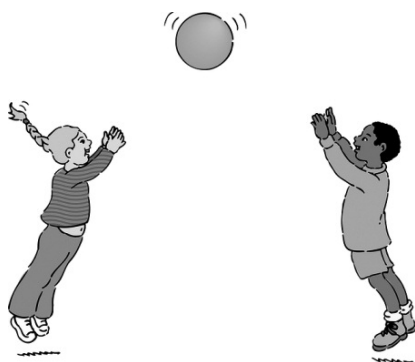
in the **PARK**™

Science, Technology, Engineering, and Mathematics

Ball Toss

What You Need

- 5 5-gallon buckets
- paper
- tape
- marker
- 5 Ping-Pong balls
- measuring tape



What To Do

- Take a marker and label five sheets of paper with the numbers 1-5 on each paper.
- Tape each sheet of paper to a 5-gallon bucket.
- Line up the 5 buckets so their labels are visible and the buckets are in a row against the wall.
- Measure 10 feet back from the line of buckets and tape the ground. This will serve as your throw line.

Continued on back

- Throw the Ping-Pong balls at the buckets trying to get the ball into a bucket. If you make a bucket, you earn however many points are labeled on the bucket.
- You play until you get exactly 10 points total.
- Example, first ball lands in the bucket labeled a 1, second ball lands in the bucket labeled a 3. You have $1+3$ points, which is 4 points.

Observe

- Record how many different ways you can get your score to add up to 10.
- Can you get your score to 10 using only 4 balls? How?
- Can you get your score to 10 using only 3 balls? How?
- Can you get your score to 10 using only 2 balls? How?

Try It!

- Instead of adding your points up to 10, start with 10 and subtract until you get to 0.

Have a competition!

- Throw 5 balls and ADD up the points to see who can get the highest score!
- Throw 5 balls and MULTIPLY the points to see who can get the highest score!

This activity is brought to you by Bowling Green Council of Teachers of Mathematics (BGCTM)

