

Balloon Activity

You and a partner are in a contest with everyone else in your group to see who can make an air-powered “ship” that combines the highest speed with the greatest distance, or feet/second ratio, during a flight of at least 3 seconds.

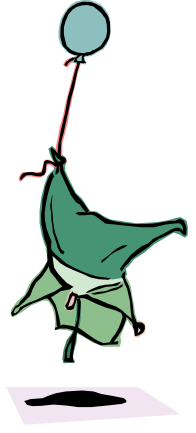
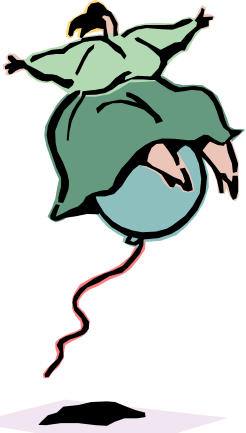
Materials:

One balloon (only one balloon, so if yours pops before your chance to compete, so does your chance of winning the contest),

One drinking straw (guess what happens if yours gets lost or whatever before the contest),

One roll of standard transparent tape (no you can't use the entire roll),

You can put a sweet design on your balloon with markers if you want, but guess what happens if your balloon . . . never mind.



Contest:

You and your partner will get one (1) attempt only.

Your “ship” will be launched on a string after the straw on your “ship” has been threaded onto the string.

Your flight time will be determined by a stopwatch from the time I say, “Go!” until your “ship” comes to a complete stop, after a minimum of 3 seconds.

The distance your “ship” travels will be measured in feet.

Results:

Your results must be reported on a poster that you'll receive and must measure 12” x 18.”

Your results must be shown in three (3) ways:

- an equation that represents your ft/sec up to 60 seconds. In order to determine your feet per second rate, use $r \bullet t = d$, or simply divide the distance by the number of seconds your balloon travels, $d \div t = r$
- a table that represents your ft/sec up to 60 seconds
- a graph that represents your ft/sec up to 60 seconds

