

## The Big Race:

Dear Students,

We have had a lot of fun learning how to use these robots and maybe a little math along the way. Previously, we've had a race to tie, but we haven't yet had a race to win... until now. The rules of the race are simple:

1. Your Linkbot may not move for longer than six seconds.
2. The initial speed for the first second will be 10 degrees/second.
3. For the remaining seconds you must **accelerate** so the graph of your Linkbot's motion matches one of the three models: linear, exponential, **or** quadratic.
4. Your final speed shall be no greater than 200 degrees/second.
5. The car that travels the furthest during the 6 seconds will be the winner.

Sincerely,  
Your Teacher

Know	Need to Know	