Race to Tie 2:

Dear Students,

We just finished Race to Tie and everyone did a great job of getting their bot to tie the pace car. Realizing how easy you made the last lab look, I decided to add some more challenges to the format. In Race to Tie 2, you will have two robots that travel different speeds race to tie each other. Robot 1 must travel three times as fast as Robot 2. Robot 1 must start the race 10 inches up the racetrack while Robot 2 must start the race 40 inches up the racetrack. You may pick whatever speeds you want, just as long as Robot 1 is three times faster than Robot 2. So that everyone in class can understand your excellence, each team must show that their Linkbot car placement will result in a tie. The presentation must include:

- Names for your Linkbot cars.
- A graph showing the motion of both cars.
- The velocity of each car.
- The final equation for each car.
- The length of time needed to complete the race.
- The point at which the Linkbot cars will tie.

Once your explanation is accepted, your team will have two chances to get the Linkbot cars to tie.

Sincerely, Your Teacher

Need to Know	Next Steps
	Need to Know



