

Dune Buggy Paradigm Lab Date: _____ Period: _____

- 1) Prepare data tables ahead of time.
 - a) On the second blue line down from the top of your notebook paper, copy the title of Table 1 as shown below.
 - b) Continuing below the title, copy the column headings and arrange the table as shown below, allowing space for ten rows of data.

Table 1. Position *vs.* time point for a yellow buggy traveling along the floor of the physics classroom

Time Point	Position					
	Trial 1		Trial 2		Trial 3	
	Student A	Student B	Student B	Student C	Student C	Student A
0	<i>No first position should be zero tiles. The entries in this row should all be greater than zero no matter which direction.</i>					
1						

- 2) Two students place washers simultaneously: one on each side of the buggy.
- 3) The ZRP is chosen *after* the trial is run. *Do not attempt to start the buggy at a reference point!*
- 4) Start the buggy in motion, **then** place the first washer at the sound of a metronome beat.
- 5) Place each washer at the sound of a metronome beat. In other words, the *click* of the washer hitting the floor, and the *tick* of the metronome beat should happen simultaneously.
- 6) Each student places washers for two trials.
- 7) For each trial, each student should place at least ten washers.
- 8) Each student measures her own positions.
- 9) All partners in the group need a copy of everybody's position data.

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Table 1. Position *vs.* time point for a yellow buggy traveling along the floor of the physics classroom

Time Point	Position			
	Trial 1		Trial 2	
	Student A	Student B	Student A	Student B
0	No first position should be zero tiles. The entries for time point 0 beats should all be greater than zero no matter which direction.			
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