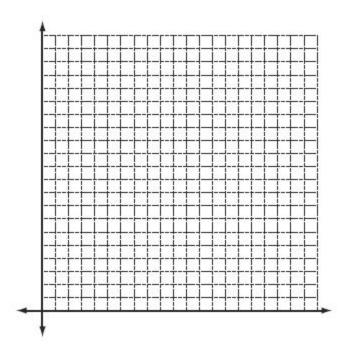
Comparing Function Lab Results

Using the results from the previous labs for this project, graph *time vs. speed* of each type of movement (linear, quadratic and exponential) onto the same coordinate plane. Afterwards, answer the questions that follow.



What do you notice about the speed of Linkbot whose graph was linear?

What do you notice about the speed of Linkbot whose graph was quadratic?

What do you notice about the speed of Linkbot whose graph was exponential?

Add a row for 7 seconds and predict what the average speed will be for each.

Which graph wo	ould you like yo	ur Linkbot	t to ma	tch? Why?			
Share your predi	ctions for 7 sec	onds with	other	groups and re	cord the	m below:	
							Group
Name:							Average
Linear							
Quadratic							
Exponential							
Exponential							
Use your Group	Nyerage and t	he graph	to figur	re out where e	ach hot	will be at	the end of the
race to 7 secon	-	ne grapn	to figur	e out where e	acii but	wiii be at	ule ella di ule
	Degrees at 6 seconds		Predicted degrees traveled from 6-7 seconds			Degrees predicted at 7 seconds	
	seconds		liave	eled from 6-7 s	seconus	7 Secon	us
Linear							
Quadratic							
Exponential							
For each Linkbo	ot put a point us	sing the ar	opropri	ate shape on	your gra	ph from th	ne beginning of
this worksheet;					, ,	•	





How far from the	e starting line will the point you put on your graph be?					
Linear						
Quadratic						
Exponential						
Place a dot where you think each Linkbot will reach at the end of 7 seconds. After 7 second run:						
How far were your predictions from the actual resting place?						
For your prediction that was the furthest away from the actual resting place, how would you adjust it? Does that change anything about how you were thinking about the different speeds?						
Which graph would you like your Linkbot to match? Why?						



