

Name: Period: Date:

Go to trackstar.4teachers.org (no "www"). Click View Track # <u>394284</u>. Click "View in Frames."

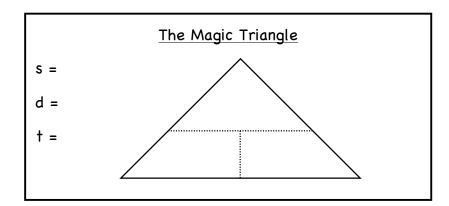
. Usi	Site 1: Reference Point  Using the word "reference point", explain why motion is different depending on wher you are standing (on the platform or on the train).		
. <u>S</u> p	r <mark>e 2: What is Speed? eed</mark> is		
. Wł	nat are the <u>2</u> things we need to know in order to calculate the <u>speed</u> of an object?		
. Bel tha * <u>Sit</u>	te 3: How fast is fast?  low, write the speed of the fastest train and the fastest helicopter. Circle the one of that a greater speed.  Fastest Train: Fastest Helicopter: Don't forget to circle the one that is fastest		
. СН	ANGE the settings by entering the information BELOW and click "GO":  I'd like my first object to be a  Big Red Truck  Start it at position 10 m  Give it a speed of  2.5 meters/second  Give it an acceleration of  0 meters/second*second  O meters/second*second  O meters/second*second		
	Another word for "starting position" is:		
	What do you think "acceleration" means?		
d.	Predict what would happen if you changed the <i>acceleration</i> for the Big Red Truck.		

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6.	Change the settings to <b>two <u>different</u></b> objects that have the <u>same</u> speed and the <u>same</u> starting position. Do the objects reach the finish line at the <u>same</u> time or at <u>different</u>
	times? Why?
	Teacher's Initials
	Ms. Salzburg's initials here when
	done with Site 4!!

## \*\* On the Board: Magic Triangle and Speed Equation

7. Find the "Magic Triangle" on the board. Draw it in the box below. In the other box, write the equation for speed.



The Speed Equation		
Speed =		

8. Imagine that a car traveled 100 meters in 5 seconds. What is the average speed of the car? Be sure to show the five steps below! ©

	STEP BY STEP DIRECTIONS	SHOW YOUR WORK
Step 1		
Step 2		
Step 3		
Step 4		
Step 5		