Name: Key	Date:
Science 7	Motion
Aim: I can describe motion.  Do Now:	
Notes:	
Motion:	
Change in position relative     a Stationary reference point (f	rame of reference).
How can motion be described?	
<ul> <li>Speed: how fast something moves; the_</li> <li>The amount of time it takes for a take place.</li> </ul>	
Instantaneous Speed:  • The <u>rate</u> of motion at any given <u>time</u>	/instant
<ul> <li>Constant Speed:</li> <li>Aspeed that does not change.</li> <li>Most things are only traveling for a constant speed f</li> </ul>	for a short period of time.
Average Speed:  • The total <u>distance</u> traveled divided travel.	by the total <u>time</u> of
Express the relationship between	. Speed and time.
distance	D
speed = time	/s   T \

## Practice Problems:

1. A lady bug crawls 5 meters in 20 seconds. Calculate the speed at which the lady bug crawled.

Formula	S = 0/L	8
Substitution	S= 5m	.20
Final Answer with Units	S=0.3 m/s	- St. 2029

2. Your neighbor says she can skate at a speed of 4 meters/second. To see if you can skate faster, you have her time you as you skate as fast as you can for 100 meters. Your time is 20 seconds. Who skates faster?

Formula	S=D/E	a (
Substitution		
	$S = \frac{100m}{20s}$	©
Final Answer with Units	S=5m/s	

3. Sound travels at a speed of 330 meters/second. If a lightning bolt strikes the ground 1,000 m away from you, how long will it take for the sound to reach you?

Formula	S=D/t -> t= %	
Substitution		
	$\pm = \frac{1000m}{330mls}$	
Final Answer with Units	t= 3.0s	