Skim Lesson 3 in your book. Read the headings, and look at the photos and illustrations. Identify three things you want to learn more about as you read the lesson. Write your ideas in your Science Journal.

asa Main Idea as:		saa Details can a		
Acceleration—Changes	Define acceleratio	Define acceleration.		
n Velocity	acceleration:			
found this on page	acceleration.			
16 Asht	Complete 2 m	ious that an object can a	ccolorato	
I found this on page		Signal Strain St		
	1	1		
	2	2		
	3			
I found this on page	. Describe the acce	Describe the acceleration of a car in each situation.		
		Description		
	Leaving an			
	intersection			
		<u></u>		
	Approaching an	1		
	intersection			
		<u> </u>		
I found this on page	•	Draw arrows to show the direction of velocity and acceleration of		
		the toy car moves along the track. Use one color to show velocit		
	and another color	to show acceleration.		
			KEY	
		_ ^		
			acceleration	
			velocity	

Lesson 3 | Acceleration (continued)

una Main Idea ana Janaamananana Details anananananana Define average acceleration, and complete the equation for Calculating Acceleration I found this on page ______. calculating it. average acceleration: Average Acceleration Equation: I found this on page _____. **Identify** each variable in the equation. average acceleration: _____ final speed: _____ initial speed: _____ **Solve** *for* average acceleration. I found this on page _____. A rocket accelerates from 0 to 20 km/s. Five seconds after reaching 20 km/s, the rocket is traveling at 280 km/s. What is the average acceleration of the rocket? initial speed: _____ final speed: _____ total time: _____ What is the average acceleration of the rocket? _____ I found this on page ______. **Determine** the direction of motion of two objects. Time (s) Average Time (s) Average Acceleration Acceleration (m/s)(m/s)0 0 -2 1 2 2 -4 2 4

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Direction of motion:

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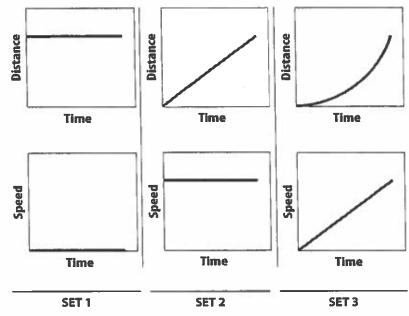
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Speed-Time Graphs I found this on page _____

I found this on page _____.

Explain what a speed-time graph indicates about an object's motion.

Describe the motion represented by each set of graphs.



SET 1. _____

Summarize *five* ways motion can be described.



Summarizing Motion I found this on page ___

Synthesize It Draw a graph to show a car that starts from rest, accelerates to 35 km/h in 20 seconds, travels at a constant speed for 20 seconds, slows to a stop in 10 seconds, and remains at rest for 20 seconds. Label acceleration during each time period.

