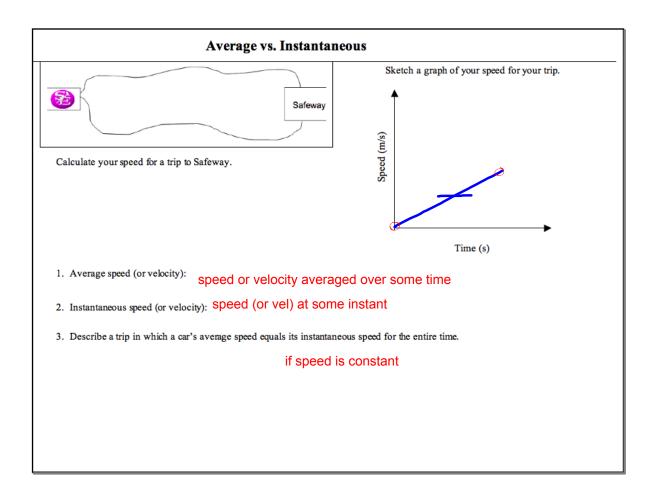
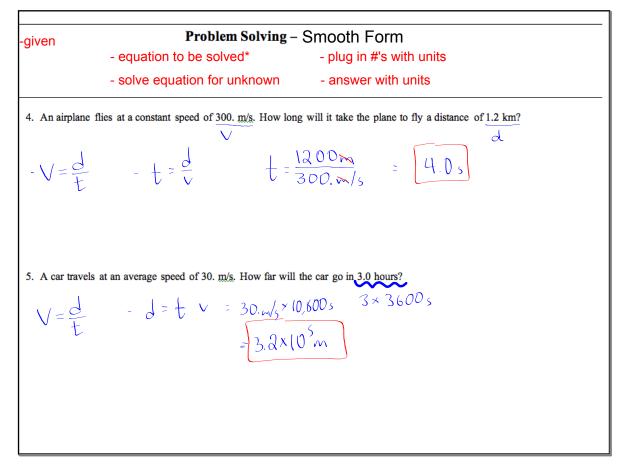
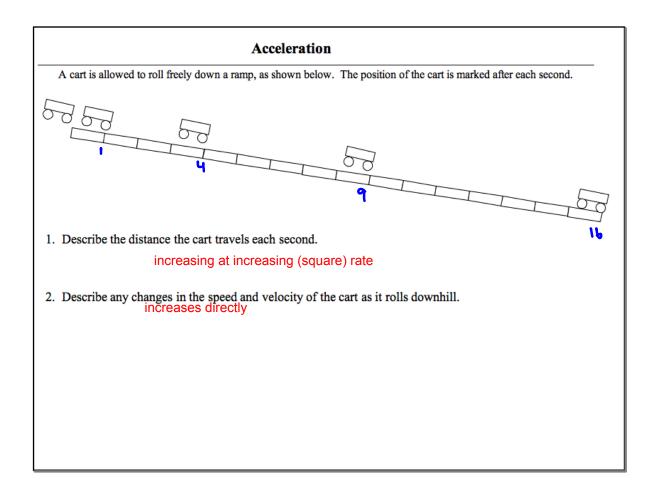
A student runs from home to school and back.		Running from home to school	Round trip
20. minutes	Distance	1.2 mi	3.0mi
12 miles 10. minutes	Displacement	$\sim .8 m.$	0
	Speed	.12 miles/min	o.lomile/min
	Velocity	.08 miles/min	0
3. When is the distance an object travels equal to its displ	acement (in magnitud	le)?	
moving in straight line, withou	t changing dire	ction	
4. When is the speed of an object equal to its velocity (in	magnitude)?		
moving in straight line, without	it changing dire	ection	
5. How can you drive at a constant speed but not at a constant	stant velocity?		3
driving around curve			5







Time (s)	Position (m)	Average Velocity (m/s)	Instantaneous Velocity (m/s)	Acceleration
0	0	$\frac{J}{t}$.0	V+tXo=Varg D	2
1	I		V5-2×V.y 2	2
2	Ч	2	Ч	2
3	9	3	6	2
4	16	Ц	8	2

Instantaneous initial velocity =
$$\sqrt[V_{f}]$$

Instantaneous final velocity = $\sqrt[V_{f}]$
Average velocity = $\frac{1}{4}$
 \frac