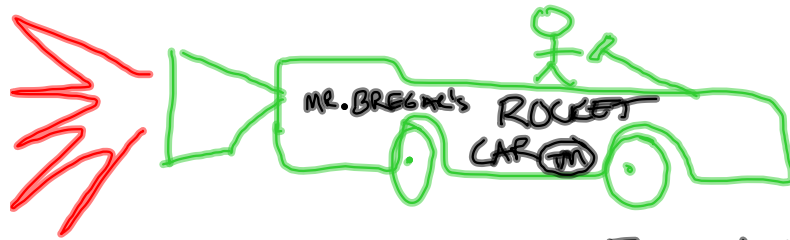


Acceleration:

A change in something's
velocity:

- SPEED UP
- SLOW DOWN
- CHANGE DIRECTION



Initial Velocity	Final Velocity	Accelerating?
3,500 m/s N	3,501 m/s N	Yes (sped up)
2,008 m/s W	2,008 m/s W	No
14,222 m/s N	0 m/s	Yes (slowed down)
211 m/s on a track	211 m/s on a track	Yes (changing direction)
4,006 m/s N	4,006 m/s S	Yes (changing direction)

Formula for calculating acceleration:

acceleration = (final velocity - initial velocity) / time

$$a = (v_f - v_o) / t$$