Comparison of Scalar and Vector Quantities

Type of Quantity	Examples	Symbol and Base Unit	Formula or Measurement
Scalar	time in seconds	$t\ (s)$	*measurement*
	elapsed time	$\Delta t\ (s)$	$\Delta t = t_2 - t_1$
	mass in kilograms	$m\ (kg)$	*measurement*
	distance in metres	$d\ (m)$	*measurement*
	speed in metres per second	$v\ (m/s)$	$v_{avg} = \Delta d / \Delta t$
Vector	position in metres	$\vec{d}\ (m)$	*measurement*
	displacement in metres	$\overrightarrow{\Delta d}\ (m)$	$\overrightarrow{\Delta d} = \vec{d}_2 - \vec{d}_1$
	velocity in metres per second	$\vec{v}\ (m/s)$	$\vec{v}_{avg} = \frac{\overrightarrow{\Delta d}}{\Delta t}$
	change in velocity	$\overrightarrow{\Delta v}\ (m/s)$	$\overrightarrow{\Delta v} = \vec{v}_2 - \vec{v}_1$
	acceleration in metres per second squared	$\vec{a}\ (m/s^2)$	$\vec{a} = \frac{\overrightarrow{\Delta v}}{\Delta t}$
	force in Newtons	$\vec{F}\ (N)$	$\vec{F}_{net} = \overrightarrow{ma}$