

SPEED AND VELOCITY

If an object is moving at a constant speed, it is considered to be in uniform motion. To measure the rate of motion, you can calculate the object's average speed.

Velocity is similar to speed but includes direction and is calculated by dividing the object's displacement by time. The SI unit of speed is meters per second. To calculate average speed, divide the total distance traveled by the total time it took to travel that distance. This formula can also be used to calculate velocity by dividing displacement by time between the initial and final points. It's important to note that speed is a scalar quantity and only has magnitude. It can be zero or positive. Velocity, on the other hand, takes direction into account and will be negative when displacement is negative