

Name: _____
 Class: _____

Speed and Acceleration

Speed

Speed is the distance travelled in a given amount of time. Speed is a scalar quantity. It is measured in m/s or km/h.

Speed = $\frac{\text{Distance}}{\text{Time}}$

Speed = $\frac{100 \text{ m}}{2 \text{ s}} = 50 \text{ m/s}$



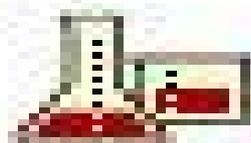
A car's speedometer shows the car's speed. The needle points to 100 km/h. This means the car is moving at 100 km/h.

A car travels 100 m in 2 s. Calculate its speed.		A car travels 100 m in 2 s. Calculate its speed.		A car travels 100 m in 2 s. Calculate its speed.	
Distance = 100 m	Time = 2 s	Distance = 100 m	Time = 2 s	Distance = 100 m	Time = 2 s
Speed = $\frac{100 \text{ m}}{2 \text{ s}}$	Speed = 50 m/s	Speed = $\frac{100 \text{ m}}{2 \text{ s}}$	Speed = 50 m/s	Speed = $\frac{100 \text{ m}}{2 \text{ s}}$	Speed = 50 m/s

Acceleration

- Speed is increasing
- Speed is decreasing
- Speed is constant
- Speed is zero
- Speed is negative

Acceleration is the rate of change of speed.



Acceleration is the rate of change of speed. It is measured in m/s².

Velocity is the speed in a particular direction.

Velocity is a vector quantity. It is measured in m/s.

Velocity = $\frac{\text{Displacement}}{\text{Time}}$

Distance-Time Graphs

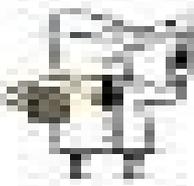
Time (s)	Distance (m)
0	0
1	10
2	20
3	30
4	40
5	50

The gradient of the line is the speed.

The area under the line is the distance.

Force is a push or pull on an object.

Force is measured in Newtons (N).



Work Done is the energy transferred.

Work done = Force × Distance

Work done is measured in Joules (J).

Speed And Experiments Answer Key

SJ Ball



Speed And Experiments Answer Key:

Can static type systems speed up programming? An experimental evaluation of static and dynamic type systems Sebastian Kleinschmager,2012-08-14 Master s Thesis from the year 2011 in the subject Computer Science Software grade 1 0 University of Duisburg Essen Institute for Computer Science and Business Information Systems course Informatik Empirische Softwareforschung language English abstract Type systems of programming languages are a much discussed topic of software engineering There are many voices arguing towards static as well as dynamic type systems although their actual impact on software development is rarely evaluated using rigorous scientific methods In the context of this work a controlled experiment with 36 participants was conducted which tried to compare the performance of software developers using a static and a dynamic type system for the same tasks using an undocumented API The two programming languages used were Java and Groovy The experiment and its results are analyzed and discussed in this thesis Its main hypothesis was that a static type system speeds up the time developers need to solve programming tasks in an undocumented API The main results of the experiment speak strongly in favor of this hypothesis because the static type system seems to have a significantly positive impact on the development time *U.S. Government Research & Development Reports* ,1965

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