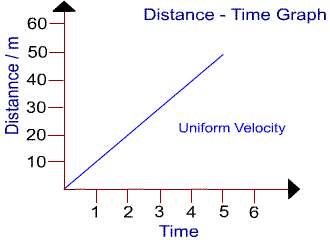
Section 9.7

Distance – Time Graphs

<http://videos.howstuffworks.com/hsw/14801-simply-science-graphic-grain-distance-video.htm>

Graphs

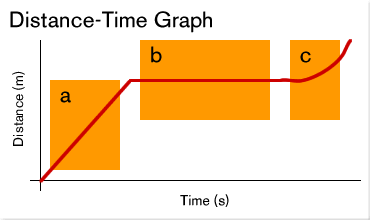
1. Help communicate information to others regarding a number of variables.
2. Have independent variables and dependant variables which create an x and y axis.



1. Help demonstrate the relationship between variables like distance, time and velocity

<http://graphs.mathwarehouse.com/distance-time-graph-activity.php>

What is represented in this graph?



Slope and speed The greater the slope of the line created on a distance time graph the greater the speed travelled of greater velocity.

How would you draw the distance time graph for:

1. Bicycle
2. Roller blades
3. Walking

Slope created by the distance time graph is represented by rise of the graph divided by the run of the graph. This equation is also represents velocity.

Slope = rise divided by run on a distance time graph

S=rise/run

In summary the speed of an object in motion can be determined for the slope of a distance time graph.

Read section 9.7 pages 362-365

Answer the Understanding Concepts questions page 365

<http://videos.howstuffworks.com/hsw/19737-measure-for-measure-distance-and-time-in-the-universe-video.htm>