Measuring Distance

Kinematics



If I drive to Calgary, how can I figure out how far I went?



If I turn around and come back to St. Albert, how far have I gone? What will the odometer in the car say?



If I drive around a circular track with a diameter of 1 km, how far have I travelled?



After completing a lap on the circular track, how far am I from where I started?

Distance

Displacement















Discussion: Can distance ever be negative?





How do I know how fast I went on my trip to Calgary?

Distance travelled from Edmonton over time





Can I find the speed in the first hour? What about the second hour?

What was my average speed for the whole trip?

Distance travelled from Edmonton over time



Graphing Distance



What type of motion does each graph show?

Is the object still, moving at a constant speed, getting faster, or getting slower?

Uniform Motion

Uniform Motion is:

In Science 10, we will deal with motion in straight lines, both uniform and accelerated. In Physics 20, you will see curved motion and changes in direction!