

Checklist

What you should know

By the end of this subtopic you should be able to:

- understand the relationship between displacement, velocity and acceleration of an object moving in a straight line
 - use differentiation to find velocity from displacement and acceleration from velocity
 - use integration to find velocity from acceleration and displacement from velocity
- understand the difference between displacement and distance travelled
 - know how to use the formula in the formula booklet to find displacement and distance travelled
 - find displacement and distance travelled both algebraically and using a graphing calculator
- understand that velocity and/or acceleration may be given in terms of position rather than in terms of time.

