

## **Terminal velocity**

If the acceleration of a falling object was uniform, the object's velocity-time graph would be a straight line. However, the effects of drag produce a velocity-time graph that curves to become a horizontal line.

The terminal velocity is determined by the object's density, its shape and the properties of the fluid through which it moves. The object will float if it is less dense than the fluid, accelerating upwards until it reaches a terminal velocity.