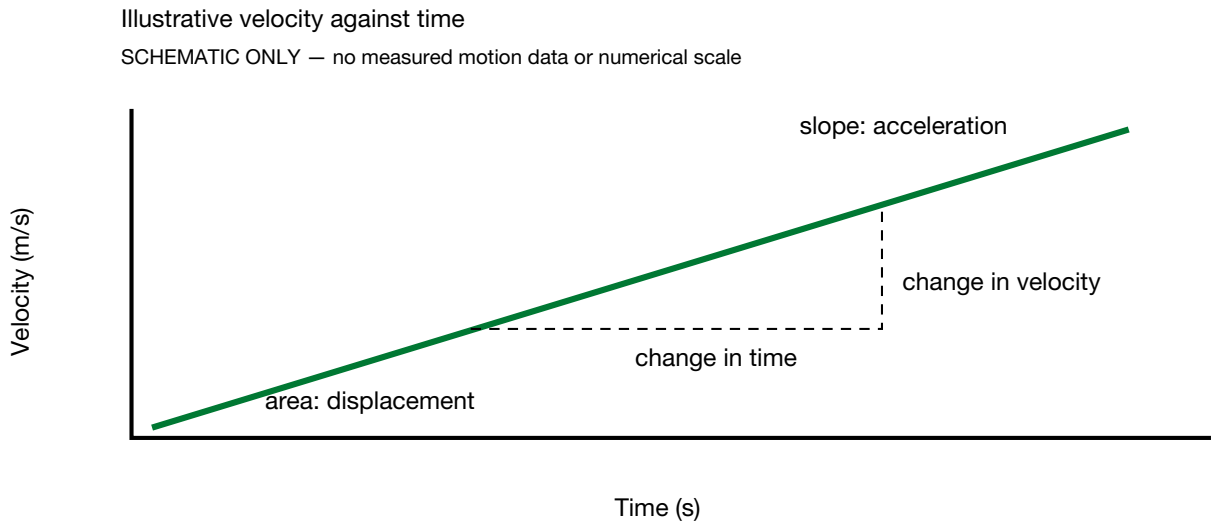
VELOCITY VS TIME: READ THE RIGHT QUANTITY.

Use the page's graph check before calculating: title and legend, axes, SI units, scale and the limits of the data.



1 / Title and axes

This is velocity against time, not displacement against time. Changing the axes changes the meaning of the slope.

2 / Units

Velocity is m/s; time is s. Slope therefore has units m/s^2, and area has units m.

3 / Slope and area

Slope gives acceleration. Signed area under a velocity–time curve gives displacement, not automatically distance.

4 / Scale and limits

The sketch has no numerical ticks, so do not invent a value. Check linear/log scales and the shown interval in a real question.

Method: mapped physics page. Slope/area corroboration: OpenStax Physics, 2.4.