

Position Vs. Time Graphs

- Tell you positions (where something is) at different times.
- This tells you how the object moves.
- A horizontal — line shows when an object is NOT moving.
- An increasing \nearrow line shows an object moving forward, while a decreasing line \searrow shows an object moving backwards.
- The steeper the line the faster an object is moving.

\nearrow = fast \searrow = slow

- Slope - tells you velocity $\left[\begin{array}{l} \text{slope} = \frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1} \\ \text{velocity} = \frac{\Delta x}{\Delta t} = \frac{x_2 - x_1}{t_2 - t_1} \end{array} \right]$

