

Buggy

Observations:

- Red
- Constant speed
- Treaded tires
- Rolled back on wheels
- Flashing lights
- Car shape is not symmetrical

Questions:

- How far did the buggy go in a given time?
- How much time will it take to go a certain distance?
- What units will we use to measure speed?
- How long does it take the car to stop?

independent variable \rightarrow x-axis

time \rightarrow set these!

dependent variable \rightarrow y-axis

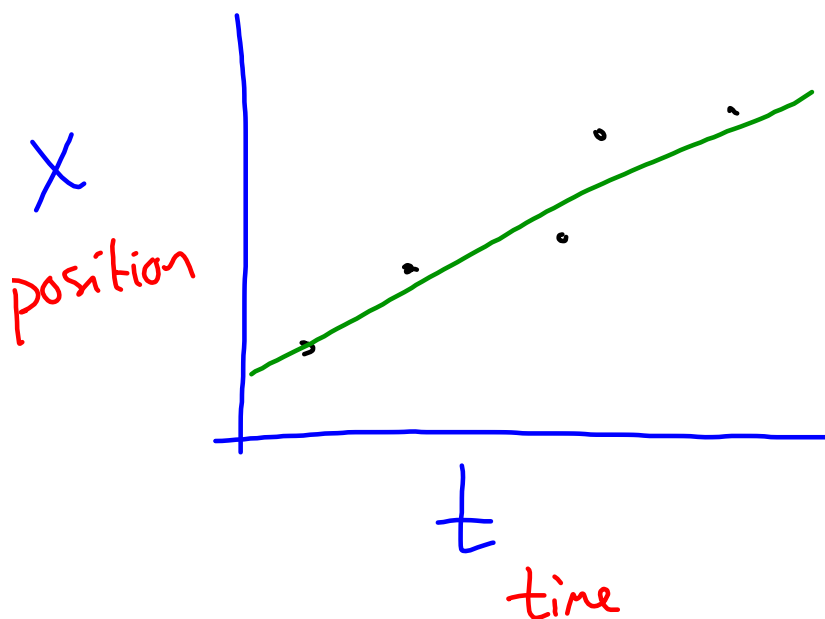
position \rightarrow record these!

Whiteboard:

Graph, equation

Excel:

Data, Graph, Function of Best Fit



Equation:

$$y = mx + b$$

↖ came from
errors in
experiment

$$x = (v)t$$

$$m = \frac{\text{position}}{\text{time}}$$

Velocity =

$$v = \frac{x}{t}$$

Scalar →
just magnitude

Vector → magnitude
AND direction