INDEPENDENT VARIABLE:

The variable that is not dependent upon another; the variable that can be changed & determined by the experimenter.

The Independent Variable is the design of the parachute. It will be on the X-axis.

DEPENDENT VARIABLE:

The variable that is dependent upon the other variable; this variable is the results of the experiment.

The Dependent Variable will be speed, measured in meters per second (m/s). It will be on the Y-axis.

CONTROLLED VARIABLES:

Controlled variables are called constants, the ones that don't change. This is to make the tests fair and give reliable results.

- **the height dropped from • the "timer" and the "holder" remain the same • mass of the Lego person • hold the Lego person the same way each trial • drop from the same location • drop parachute the same <u>way</u> each time**

HYPOTHESIS:

The hypothesis is a prediction of what the <u>outcome</u> of the experiment will be.

If a _____ scale-model parachute is dropped from the 2nd floor balcony at BPMS to test the speed of a safe landing for the Lego person, then the parachute will have a speed slower than 1.30 m/s because ….