Identifying Variables

The **independent variable** is the variable that you change or select the values for.
The **dependent variable** is the variable that is measured for each change of the independent variable.

Identify the independent variable and the dependent variable in each of the following investigations.

1. A student investigated how the intensity of light affects the surface area of leaves on a tree.

   independent variable

   dependent variable

2. A student investigated whether the height of a person affects how fast they can run.

   independent variable

   dependent variable

3. A student investigated the amount of energy stored in different brands of crisps.

   independent variable

   dependent variable

4. A student investigated whether the height a ball bounces depends on the ball's circumference.

   independent variable

   dependent variable

5. A student investigated how the rate of a reaction was affected by temperature.

   independent variable

   dependent variable

6. A student investigated which colour of flower attracts the most bees.

   independent variable

   dependent variable

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