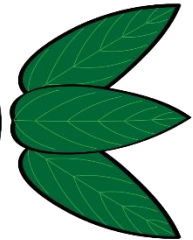
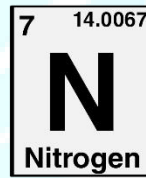
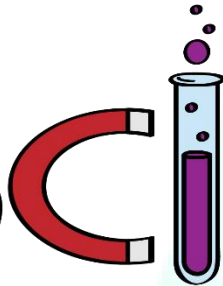
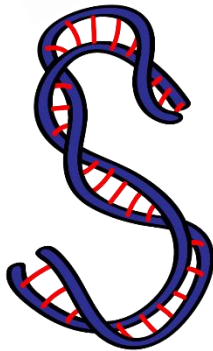




**ASPIRE**  
INTERNATIONAL SCHOOL



Science Department

2023/2024

Year 7

Term 1, Week 1 (Variables)

ASPIRE  
INTERNATIONAL SCHOOL

Name: .....

Class: .....

# 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

\_\_\_\_\_