Scientific Notation:

- A process of representing very large or very small numbers as a product of a number between 1 and 10 (the coefficient) and an appropriate power of 10 (the exponent) , either positive or negative
- The power of 10 depends on the ***number*** of places that the decimal is moved in changing the number to one between 1 and 10
- The ***direction*** of the move of the decimal determines whether the power of 10 is positive or negative:
    - Decimal moved to the left, the exponent is positive
    - Decimal moved to the right, the exponent is negative

Multiplication of numbers in scientific notation:

- Multiply the coefficients and add the exponents

Division of numbers in scientific notation:

- Divide the coefficients and subtract the exponents

Addition or subtraction of numbers in scientific notation:

- The exponents must be made the same before addition or subtraction