# Plotting equations worksheet

## Mathematics for A-level Science

Practice your understanding

On a separate sheet of paper, plot the following equations on separate axis for –5 < *x* < 5

1. *y* = 2*x* + 3
2. *y* = –*x* + 3
3. *y* = 4*x –* 1
4. *y* = *x* + 3
5. *y* = 3*x* – 7
6. The price of a phone call is made up of a connection charge of 5p, and an additional cost of 2p per minute. Letting *P* represent the total price and *T* the length of the phone call, explain the equation *P* = 2*T* + 5

Plot this equation for 0 < *T* < 4

1. The mass of a beaker filled with water is made up of the mass of the glass beaker and

1 extra gram per ml of water inside the beaker.

For a beaker that has a mass of 250 g, explain the equation *Mass* = 250 + *W*

Plot this relationship for 0 < *W* < 250

1. To convert between the Celsius and Fahrenheit temperature scales, there exists the formula *F* = *C* + 32

Plot this relationship for 0 < *C* < 100