**Plotting linear and log graphs**

1. **Linear graphs**
* Plot the following data using a **linear scale** on normal graph paper.
* Choose your scale carefully so you can easily read values from the graph.
* Your points should cover **at least half** of the graph paper.
* Join the points using a curve
* Remember to label your axes and state the units

**Question:** From your graph, record the value for the number of bacteria present at (Use a ruler and mark on your construction lines)

1. 1.5 h
2. 3.5 h

|  |  |
| --- | --- |
| Time (hours) | Number of bacteria per cm3 |
| 0 | 1 |
| 1 | 2 |
| 2 | 13 |
| 3 | 100 |
| 4 | 650 |
| 5 | 5500 |

1. **Plotting logarithmic (log) graphs**
* Plot the same data using **semi-log paper**
* Plot time on the linear scale and number of bacteria on the logarithmic scale
* Your points should cover **at least half** of the graph paper

**Question:** From your graph, record the value for the number of bacteria present at (Use a ruler and mark on your construction lines)

1. 1.5 h
2. 3.5 h

Which graph is easier to use for this type of data? Why?