

# Population growth



Bringing medicines to *life*

## Micro-organisms

Change the conditions and run the experiment to see how quickly the micro-organisms (microbes) divide and grow.



To make counting easy, a grid is provided that will let you estimate the total number of microbes present.

Design a table for your results. Include a prediction column which you should fill in before you run the experiment. A sample table is shown below.

| Day | Predict number of microbes (x100 million) | Actual number of microbes (x100 million) |
|-----|---|--|
| 1   |   |  |
| 2   |   |  |
| 3   |   |  |
| 4   |   |  |
| 5   |   |  |
| 6   |   |  |
| 7   |   |  |

- What conditions allow the microbes to divide quickly?
- What conditions stop the microbes dividing?
- Draw a graph to show how the number of microbes changes with time.