Support card 1

* Record how many people will be infected at each stage in a table (at the first stage 1 person is infected, then …)
* Is there a pattern? Can you think of a way to describe it? Can you predict or work out how many people will be infected after 15 minutes?
* Once you have your data draw a graph that shows the number of people infected at each stage (put the number of infections on the y axis)
* Write down at least 3 observations about the shape of your graph, can you explain why it is shaped the way it is?
* Try other models of the disease (start with 3 infections, or 5) what observations can you make.
* Is this model realistic? Think about other diseases you know (colds for example). Do they spread in this way?

Support Card 2

Copy and complete this table

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Step | 1 | 2 | 23 | 4 | 5 | 6 |  |
| Number of new infections | 1 |  |  |  |  |  |  |

Put your results onto a line graph using the axis shown below

Number of new infections on this axis

Number of steps on this axis