26 Card Disease

  

Start with a pile of 26 red cards (population pack) and a pile of 26 black.

Turn one card over from the population pack, lay it on the table. Replace it in the population pack with a black (immune) card.

Shuffle the population pack.

For stage 2 of the disease deal 2 cards face up next to the first red card.

If you deal any blacks they go back into the population and remain as a blank space on the table.

Replace any red cards that you need to so that the population pack remains at 26.

Repeat this process. Every red card infects 2 new people. Every black card represents someone who is immune as they have already had the disease.

Record the number of infections at each stage, show them on a graph.

What observations can you make about the behaviour of this disease.

What predictions can you make?

Can you explain why?

Prepare your final presentation.