

## 1 Part 1



Pathogenesis is the origin and development of a disease.



3 It is necessary for the pathogen to recognise and attach itself to the host cell.

2 Even small contact between a pathogen and its host cell will harm the host cell.



Pathogens are disease carrying viruses or bacteria.



4 In animals, a showdown with the host's immune system may finally decide if penetration is to be... or not to be.



5 In plants, with no immune system, each cell must be ready to fight.



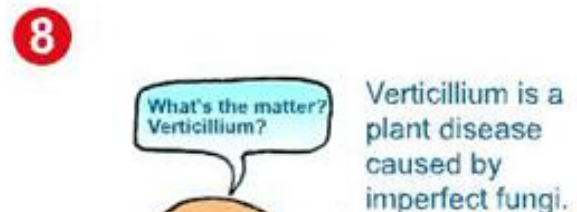
6 Viruses are so small that they can hardly be studied!



7 Unsuspecting microbes may even be attacked by pathogens **caused by imperfect fungi.**

Even microbes are not safe from each other.

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8 And another fateful encounter.