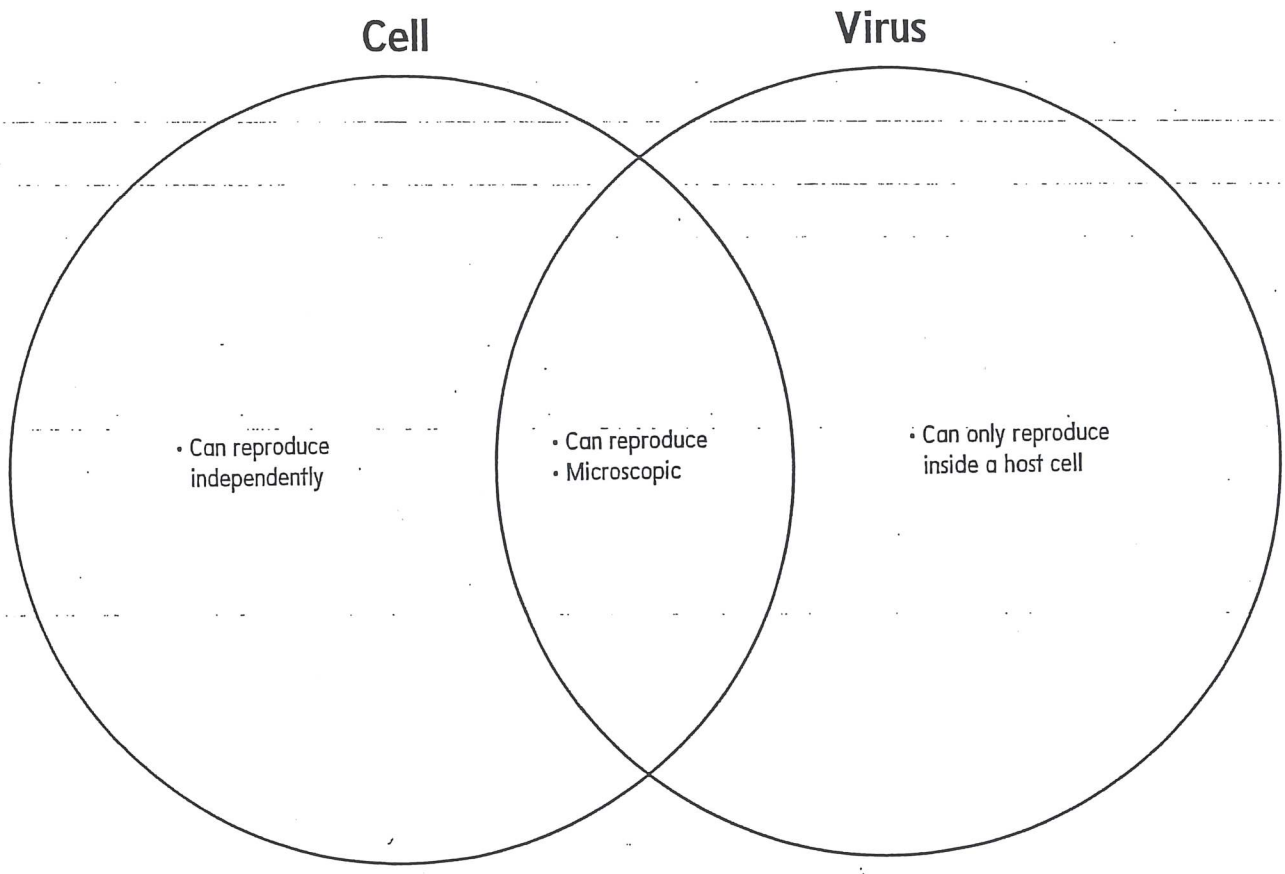
Name Date

Comparing a Cell to a Virus

Use with textbook pages 18–19.

1. Complete the Venn diagram to compare and contrast a cell with a virus. Part of the Venn diagram has been completed for you.



Are Viruses Alive?

Use with textbook pages 18–19.

1. Identify which of the following statements provide evidence that viruses are living things and which support that they are non-living particles.

	Statement	Living or Non-living?
a)	Viruses do not use energy.	
b)	A virus can evolve or change over time.	
c)	Viruses do not produce any waste products.	
d)	Viruses can exist in an inactive or dormant state.	
e)	A virus can reproduce only by infecting a host cell.	
f)	Many viruses have the same 400 protein folds as living cells.	
g)	A virus is a particle with genetic material surrounded by a protein coat.	
h)	A virus is dependent on a host cell's structures and processes to produce more viral particles.	
i)	Viruses have the ability to pass on their genetic information to future generations.	
j)	Viruses do not have the internal structures needed to produce more viruses on their own.	
k)	Viruses cannot take in nutrients like consumers or produce their own food like producers.	
l)	Viruses cannot carry out many life processes like digestion, respiration, and circulation.	
m)	There are no internal activities that occur inside a virus when it is not in contact with a host cell.	
n)	Some viruses, like the Mimivirus and the Megavirus, may have evolved from a common ancestor that was able to produce its own proteins.	