

Amoeba Sisters Video Recap: Viruses

1. Are viruses considered to be living organisms? Why or why not? Characteristics of Life	2. Are viruses considered to be cells? Would they be included in these cell theory statements? Modern Cell Theory The cell is the smallest living unit in all organisms. All living things are made of cells. The cells come from other pre-existing cells.	
3. Compare and contrast a virus to a cell. What would be some of	differences? What are some similarities?	
Determine whether the following statements are TRUE or FALSE by applying what you have learned. If false, you will be asked to explain why.	Determine whether the following statements are TRUE or FALSE by applying what you have learned. If false, you will be asked to explain why.	
4 Viruses can be treated with antibiotics .	7 Virus structure includes biomolecules such as	
	proteins and nucleic acids.	
If false, why? [If true, leave blank]	If false, why? [If true, leave blank]	
5 Viruses are smaller than the hosts they infect. If false, why? [If true, leave blank]	8 Viruses require a host to reproduce . If false, why? [If true, leave blank]	
6 Viruses are prokaryotes .		
viruses are prokaryotes.	9 Viruses <i>only</i> target animals (including	
If false, why? [If true, leave blank]	humans).	
	If false, why? [If true, leave blank]	
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	n many different structures . What would mon? What might be different?		Virus Villains TOBACCO MOSAIC INFLUENZA	
	The	· Lytic Cycle		
It is time to focus on how viruses reproduce by exploring the lytic cycle ! For the following question numbers, illustrate the scenario described to show the virus and host cell.				
The virus attaches to the host cell.	11.	The virus inserts its genetic material into the host cell (or the virus itself may be taken inside the cell where its genetic material will be used by the host).	12.	
Based on the viral genetic instructions, the host manufactures and assembles copies of the virus.	13.	The newly formed viruses can <u>lyse</u> the host cell and now infect new host cells.	14.	
The Lysogenic Cycle 15. Can you relate this illustration to how the lysogenic cycle would be different from the lytic cycle?				
Operation Infiltration				

