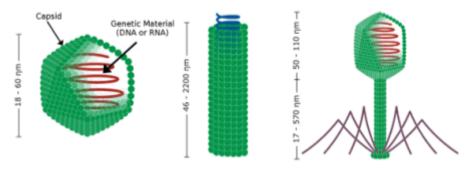
Virus Webquest

Viruses are both fascinating and a bit scary. This webquest will give you a brief introduction to viruses in general and a particular virus that has been in the news throughout the spring and summer months.

				COL	
2.	What	/hat are the symptoms of a cold or flu?			
	. •	nt corner, click on NEXT - you sho loes the size of a virus compare to			
	•	ww.biology4kids.com/files/micro_ can't viruses do?	virus.html		
	b.				
	C.				
5.	What a	are the basic parts of a virus? Small piece of		(never both). That strand of	
		nucleic acid is considered the co	ore of the virus.		
	b.	The second big part is a		to protect the nucleic acid.	
		That coat is called the	The c	apsid protects the core but also	
		helps the virus infect new cells.			
	C.	Some viruses have another coa			
		The envelope is made of	and	in the way a	
		regular cell membrane is structu	•		
		unnoticed and help them			
6.	Label	the diagram below and give the fu	unctions of the two mai	n parts in a virus	
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		T			

Virus Webquest Continued

7. Label the three basic shapes of viruses on the diagram below. (Hint - Read the text, there is not a matching diagram on the website!)



Go to http://www.etymonline.com/index.php?term=virus

8. Virus is derived from the Latin word for what?

Go to https://science.howstuffworks.com/life/cellular-microscopic/virus-human2.htm

Look at the section titled "How Viruses Infect You"

- 9. What are the ways a virus might gain entry into your body?
- 10. What are the 5 steps of the Lytic Cycle (the viral reproductive cycle)? Hint See the figure on the left side of the webpage.

At the bottom, or the top right, click on NEXT - you should now see "On the Inside"

- 11. Why do you get a fever when you have a viral infection like a cold?
- 12. Why should you cover your face when you sneeze?

At the bottom, or the top right, click on NEXT - you should now see "Lysogenic Cycle" 13. Describe how the lysogenic cycle is different from the lytic cycle.

Virus Webquest Continued

14. What are two viruses that may remain in a host, in the lysogenic cycle, for long time?	periods of
At the bottom, or the top right, click on NEXT - you should now see "Reducing the Spr 15. What are four ways that viruses may be transmitted/spread?	ead"
16. What are three things we can all do to help reduce the risk of viral transmission/spreading?	
At the bottom, or the top right, click on NEXT - you should now see "Medicines That C 17. Do antibiotics have an effect on treating viral diseases?18. Explain your answer for #17. Why or why not?	
Go to the following website https://www.pbs.org/wgbh/nova/video/immunity-and-vaccir ** Launch the video. (If you do not have sound on your computer, click on "transcript" and read the transcript) 19. Explain how vaccines work, using the words: virus , immune system , white be memory cells, and vaccine in your explanation.	under the video
Go to https://www.pbs.org/wgbh/nova/article/herd-immunity/ Read the section "What is Herd Immunity?" 20. What is herd immunity?	
21. What are the 2 ways people can become immune to an infectious disease?	
22. What is a disease's immunity threshold?	
23. What is factored in when scientists calculate a disease's immunity threshold?	畫

24. Why is herd immunity important in our modern day?