Amoeba Sisters | Video Recap

NAME: _____

Amoeba Sisters Video Recap: *Viruses*

1. Are viruses considered to be living organisms? Why or why not?

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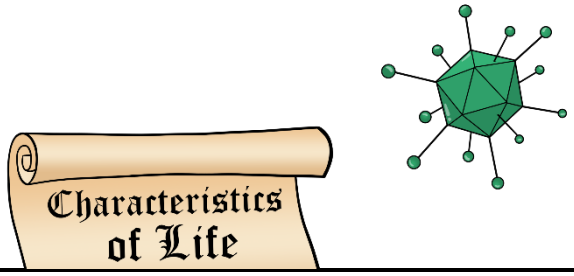

2. Are viruses considered to be cells? Would they be included in these cell theory statements?

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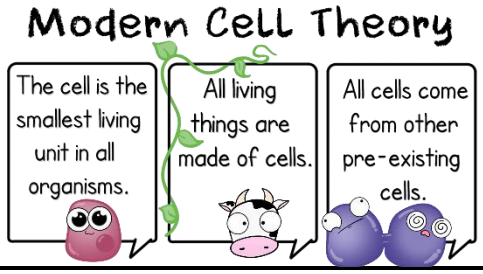
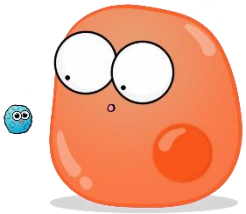


3. Compare and contrast a **virus** to a **cell**. What would be some differences? What are some similarities?



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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**.

If false, why? *[If true, leave blank]* _____

_____

5. _____ Viruses are smaller than the **hosts** they infect.

If false, why? *[If true, leave blank]* _____

_____

6. _____ Viruses are **prokaryotes**.

If false, why? *[If true, leave blank]* _____

_____

Determine whether the following statements are TRUE or FALSE by applying what you have learned. If false, you will be asked to explain why.

7. _____ Virus structure includes **biomolecules** such as **proteins** and **nucleic acids**.

If false, why? *[If true, leave blank]* _____

_____

8. _____ Viruses require a **host** to **reproduce**.

If false, why? *[If true, leave blank]* _____

_____

9. _____ Viruses *only* target **animals** (including humans).

If false, why? *[If true, leave blank]* _____

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10. Viruses come in many different **structures**. What would these different virus structures likely have in common? What might be different?

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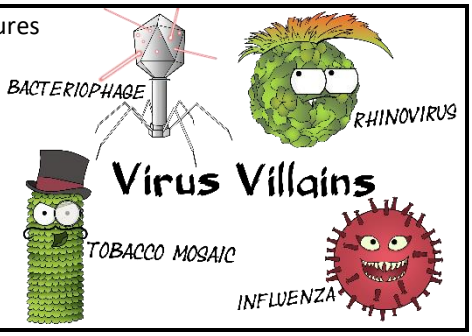

The Lytic Cycle

*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 <u>attaches</u> to the host cell.	11.	**The virus <u>inserts</u> 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 <u>manufactures</u> and <u>assembles</u> 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?*

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