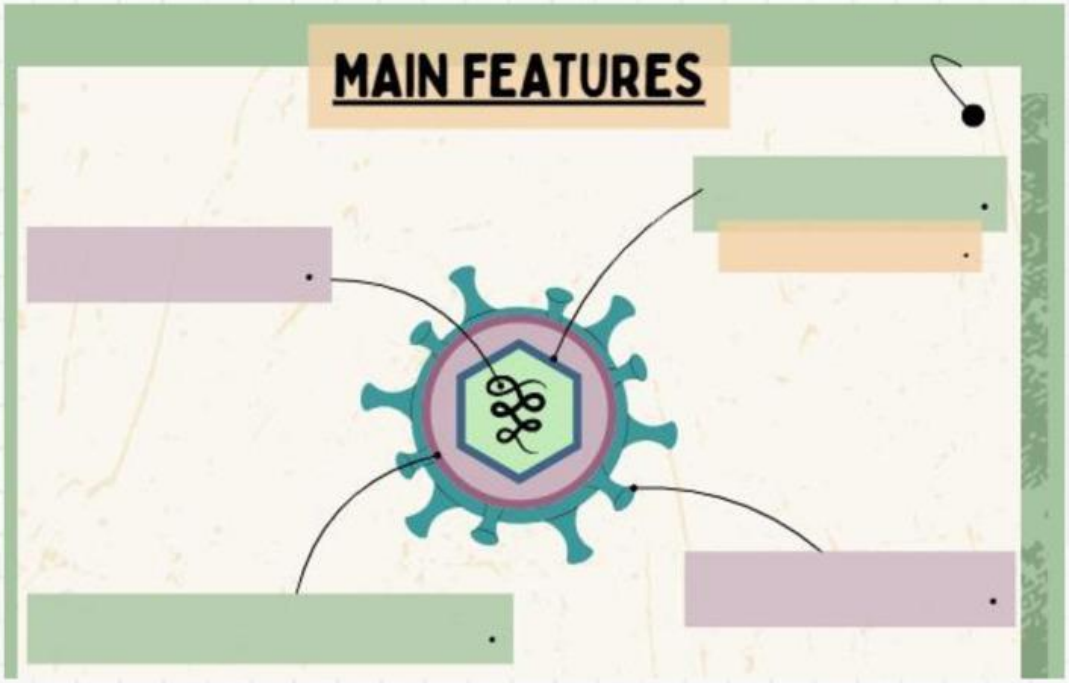
SCIENCE WORKSHEET

VIRUS - QUIZ

Write the mail parts of a virus.



Choose the best option.

1. What part of a virus contains its genetic material?

A) Protein spikes

B) Capsid

C) Nucleic acid

D) Matrix

2. Which of the following is **not always present** in a virus?

A) Protein coat

B) Membrane envelope

C) Nucleic acid

D) Protein spikes

3. What helps a virus attach to a host cell?

A) Ion channel

B) Protein spikes

C) Matrix

D) Nucleoprotein

4. What is the function of the capsid in a virus?

A) Helps with movement

B) Provides energy

C) Protects the genetic material

D) Produces proteins

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5. Which of the following is **true** about virus genomes?

A) They are always made of DNA

B) They are always double-stranded

C) They can be RNA or DNA

D) They are circular only

6. What happens when a host cell is filled with virus copies?

A) It becomes immune

B) It bursts

C) It repairs itself

D) It digests the viruses

7. Which part of the influenza virus helps it recognize and fuse with the host?

A) Nucleoprotein

B) Matrix

C) Membrane envelope

D) Ion channel

8. Which of the following is a **key difference** between bacteria and viruses?

A) Viruses have flagella

B) Bacteria require a host to replicate

C) Viruses are not cells

D) Bacteria have protein spike

☑ **True or False**

9. Viruses can replicate without a host cell.

✕ False ☑ True

10. The protein coat of a virus is also called a capsid.

✕ False ☑ True

11. Bacteria are free-living cells that can survive outside a host.

✕ False ☑ True

12. All viruses have a membrane envelope.

✕ False ☑ True

13. The genetic material of viruses can reprogram the host's DNA.

✕ False ☑ True

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✍ Fill in the Blank

14. The _____ of a virus helps it attach to the host cell.

15. A virus is not a cell; it requires a _____ to replicate.

16. The _____ protects the genetic material inside the virus.

17. When a virus replicates, the host cell eventually _____, releasing new viruses.

🔗 Matching

18. Match each virus part with its function:

Virus Part	Function
A. Capsid	1. Helps attach to host cell
B. Protein spikes	2. Helps with fusion and budding
C. Membrane envelope	3. Protects genetic material

19. Match the following terms with their descriptions:

Term	Description
A. Virus	1. Contains genetic material
B. Bacteria	2. Free-living cells with defined structure
C. Nucleic acid	3. Requires a host to replicate

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