

## **Keywords and Phrases for Concept Map for Sizes, Shapes, and Characteristics of Viruses**

Consist of nucleic acid surrounded by either a helical or polyhedral core and covered by an envelope

Consist of nucleic acid surrounded by a hollow protein cylinder or capsid and possessing a helical structure

Have neither helical nor polyhedral forms, are irregular shaped, or have complex structures

Polyhedral viruses

They are acellular. They contain no cytoplasm or cellular organelles.

They can mutate.

They carry out no metabolism on their own and must replicate using the host cell's metabolic machinery.

They reproduce, but only in living host cells.