



ICOSAHEDRAL VIRUS CAPSIDS

Fill in the blanks:

- _____ involves an _____, or a polyhedron shape with 20 triangular faces and 12 vertices that are connected two-, three-, and five-fold axes of symmetry.
- Each viral protein that makes up the icosahedral capsid is called a _____, of which may be _____ or _____.
- When all subunits interact with adjacent subunits in an identical manner, the interaction is referred to as _____.
- Due to the closed structural nature of icosahedral capsids, _____ are severely restricted. Additional _____ would need to be added to the capsid structure for such genomic expansion.
- The _____, T, indicates the number of subunits per triangular face of the icosahedral capsid.
- _____ refers to the description of triangular faces found on icosahedral capsid structures by subdividing its the capsid structure into smaller triangles, or _____.
- Viruses with _____ have true icosahedral symmetry; however, the noncovalent bonding exhibited between neighboring subunits is not identical, but still similar.

Word bank:

Quasi-equivalence Subunits Icosahedral
 symmetry Triangulation Subunit
 Asymmetric Icosahedron Structural
 Equivalent
 Viral genome sizes Triangulation number

Label the Following:

