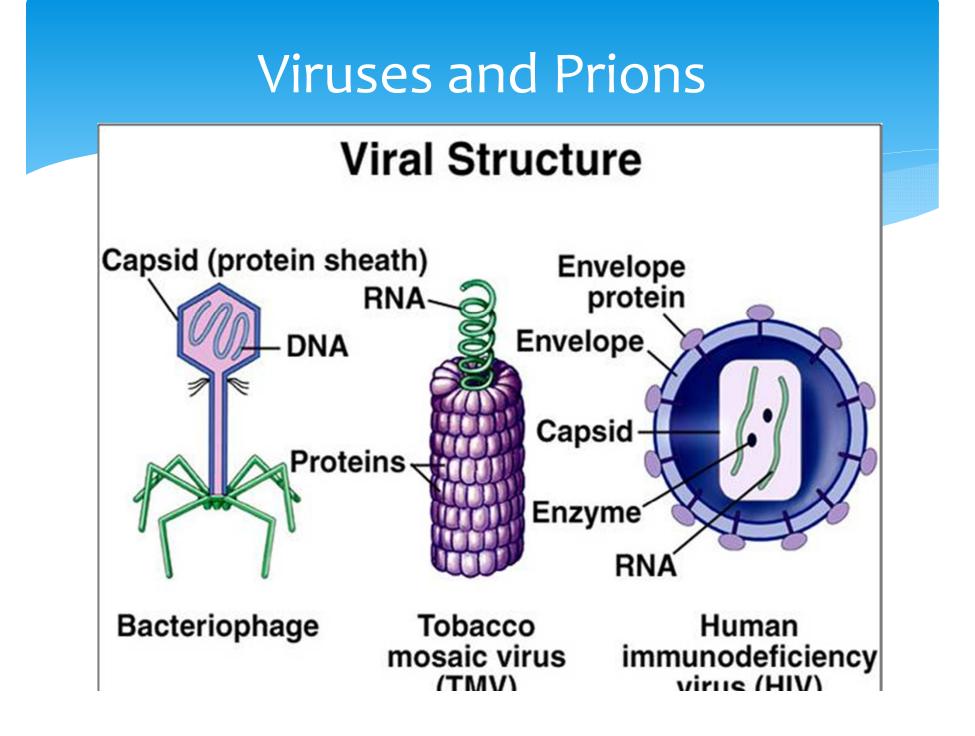
- <u>Virus</u> nonliving strand of material with a protein coat
- \* Some are harmful, some are not
- \* They do not exhibit all 8 characteristics of life
  - \* No organelles
  - \* Cannot take in nutrients or use energy
  - \* Cannot move
  - \* Cannot replicate on their own

AIDS (HIV)	Herpes	Measles	Mumps	Chicken pox
Common cold	Influenza	Warts	Shingles	Gastroenteritis
Polio	Viral meningitis	Rabies	Smallpox	hepatitis

#### \* Virus Size

- \* Electron microscopes needed because they are so small
- \* 10,000 cold viruses would fit on this sentence
- \* Virus Origin
  - \* Not actually known just theories
  - Evolved from parts of cells
  - \* Genetic material is similar to cellular genes

- Outer layer of all viruses is made of protein called a <u>capsid</u>
  - \* Contains the genetic material either DNA or RNA
- \* Classified by type of DNA or RNA they contain
  - \* Smallpox is a DNA virus
  - \* Replicates using DNA, not RNA



- \* <u>Prion</u> protein that can cause infection or disease
- \* Not well understood until 1982
- \* Normally exist in our cells and shaped like a coil
- \* Mutations in genes make the coil to be misshapen
- \* The misshapen protein then infects the host with a priondisease
  - Mad cow disease
  - Creutzfeldt-Jakob disease
  - \* Scrapie in sheep
  - \* Chronic wasting disease in deer

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