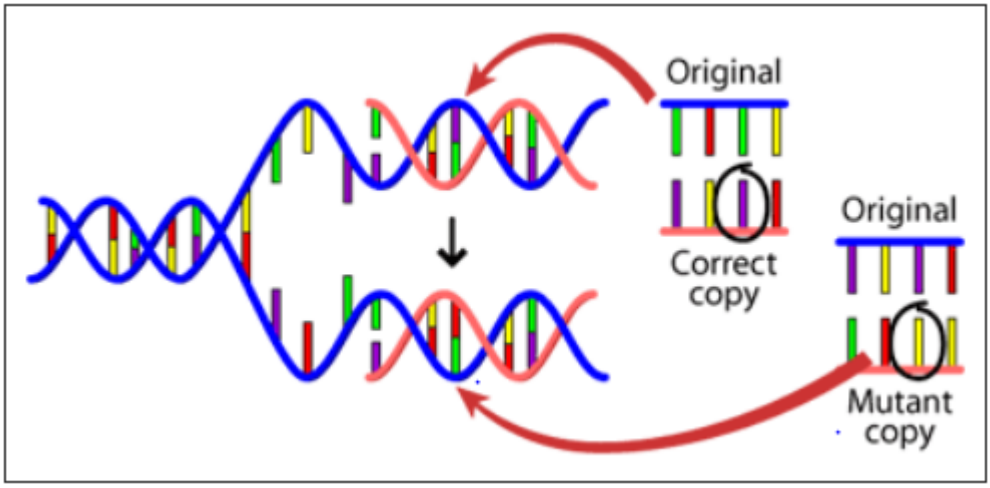
Mutation and Genetic Variation



Relationships between Mutations and Genetic Variation

The relationships between mutations and genetic variation are:

- Mutation is the source for new genetic variation: Genetic variation is brought about by random mutation. Without mutation, genetic variation cannot occur. Mutation is a change in the genetic code in DNA and can lead to a change in the protein that is coded for that segment of DNA. This can change in an individual's characteristics which are classified as a genetic variation.
- They contribute to the survival of a particular species: Particular variations in genetic variation can be beneficial or non-beneficial. This goes the same for mutation. If a particular variation or mutation gives an individual an advantage for survival, they have an increased chance of survival and will live longer. If it does not, the individual will be weak or sick and have a very low chance of survival.
- **Take a look at the videos below to learn more:**

  https://www.youtube.com/watch?v=3U4dJleBtlg&feature=emb_logo

  https://www.youtube.com/watch?v=EEDVt2eUuLw&feature=emb_logo