**Genetic Mutations Handout**

**As you work your way through the genetic mutations interactive activity, answer the following questions to help you collect the relevant information.**

1. **What is a genetic mutation?**
2. **What is the difference between an acquired mutation and a hereditary mutation?**
3. **Define the following mutations. What effects do they have on the genetic code, if any?**
4. **Point Mutation**
   1. **Silent**
   2. **Nonsense**
   3. **Missense**
5. **Frameshift Mutation (insertion and deletion)**
6. **How can a mutation that is deemed negative to an individual when it first arises later become beneficial to individuals and the species as a whole?**