Lab 15. Mutations in Genes: How Do Different Types of Mutations in Genes Affect the Function of an Organism?

1. Describe the different kinds of mutations that can happen in a sequence of DNA.

2. A muscle cell in an organism's body has stopped making one of the proteins needed to make a muscle fiber. That cell was exposed to a large amount of radiation previously. Explain how mutations could have led to this problem in this muscle cell.

	I agree with this statement. I disagree with this statement.
Ex	plain your answer, using an example from your investigation about mutations in genes.
4. Cre	ativity is an important characteristic for a scientist to have.
a.	I agree with this statement.
b.	I disagree with this statement.
Ex	plain your answer, using an example from your investigation about mutations in genes.

5.	Scientists often observe events that happen over different time scales; some events are very quick and others take many years. Explain why understanding different time scales is important, using an example from your investigation about mutations in genes.
6.	The relationship between the structure and function of organisms' features is an important area of study in science. Discuss why it is important for scientists to understand this relationship, using an example from your investigation about variations in traits.