**Unit Four- Genetics- Learning Targets**

**Big Idea**

Should biotechnology be allowed to design future generations?

**Essential Question**

Does manipulating genes have long term consequences?

**Learning Targets**

1. I can describe the importance of mitosis and cytokinesis in the cell cycle.
2. I can describe the important process of meiosis and the formation of gametes. I can compare the serious illnesses that result from non-disjunction.
3. I can describe how traits are inherited through sexual reproduction. I can trace expressed traits through generations by using Punnett squares and pedigree charts.
4. I can analyze various mutations to the genetic code that cause genetic disorders.
5. I can critically analyze the benefits and challenges behind current and progressive reproductive technologies.
6. I can research and critically analyze the social and ethical impacts that various forms of biotechnology have on the human body and society as a whole.