Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Video- Explore Gene therapy -Genic replacement therapy**

<https://www.exploregenetherapy.com/how-gene-replacement-therapy-works>

1. How does genic replacement therapy work?
2. For what type of disease does it work?
3. We learned few genetic diseases through student’s presentations. For which diseases would gene therapy be useful?
4. **Video- Changing the Blueprints of Life - Genetic Engineering: Crash Course Engineering** #38- first 5 minutes of 11 min 45 sec

<https://www.youtube.com/watch?v=FY_ZUEKWhBc>

1. Name 4 main uses of genetic engineering.
2. What are traditional ways of doing genetic engineering?
3. Describe what was the Green revolution.
4. **Genetic engineering examples- reading**

<http://www.softschools.com/examples/science/genetic_engineering_examples/124/>

1. Explain what is genetic engineering
2. Give 5 examples:
3. Name 4 advantages of doing genetic engineering
4. Name 4 disadvantages of doing genetic engineering
5. **Reading- Centre for genetics and society- hUMAN GENETIC MODIFICATION**

<https://www.geneticsandsociety.org/topics/human-genetic-modification>

1. What is germline genetic modification? Describe it.
2. Why is this process ethical?
3. Scientific community is asking to adopt a moratorium on heritable genome editing. Why is that important?
4. **Audio- A history of biotech giant Monsanto - 11 minutes**

<https://www.cbc.ca/player/play/1774454868>

1. Name et explain products created and sold by Monsanto.
2. When does the company turns over to genetic engineering ? and describe their products.
3. How do you feel about the evolution of this company and effects on our world?