**Biotechnology Questions** Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Use the power point presentation on Fishel-Biology Moodle page. Scroll down to the Heredity and Genetics section. Open the Biotechnology Power point. You do not need to enroll in my Moodle page to see things but just in case it would ask you for the enrollment key, it used to be Biology. It has been removed but some say it asks for my enrollment key. It should not ask this.

Note: view it in presentation mode to make the video links active. Just click and go. Answer the following questions concerning advances in genetic technology.

1. What is selective breeding?
2. What is the Human Genome Project (HGP)?
3. What is a genome?
4. What is meant by “genetic engineering”?
5. In 3-4 sentences, briefly describe how recombinant DNA is used/made.
6. Name 3 benefits or advances made using recombinant DNA technology.
7. What do you think is meant by DNA fingerprinting?
8. What is gene therapy?
9. Name 3 types of gene therapy and how these are helpful to society.
	1.
	2.
	3.
10. On slide 27, there are 3 YouTube videos. Pick one to view. Tell me which one you viewed, watch the video, then describe the process observed in 4-5 sentences.
11. List 3-4 risks factors on Gene therapy.
	1.
	2.
	3.
	4.
12. What is cloning?
13. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ was the first cloned animal and her name was \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
14. What are stem cells?
15. What is a “GMO”?
16. Name 3 ways we can genetically alter a gene.
	1.
	2.
	3.
17. What is a transgenic organism?
18. Name 6 transgenic plants and how they were modified.
	1.
	2.
	3.
	4.
	5.

1. Name 7 transgenic animals and how they were modified.
	1.
	2.
	3.
	4.
	5.
	6.
	7.
2. Name 5 benefits of GMO’s.
	1.
	2.
	3.
	4.
	5.
3. Name 5 disadvantages of GMO’s.
	1.
	2.
	3.
	4.
	5.
4. Name some foods that have been genetically modified.
5. Name 10 benefits of genetically engineered crops that are used as food.
	1.
	2.
	3.
	4.
	5.
	6.
	7.
	8.
	9.
	10.
6. Name 3-4 concerns about genetically engineered foods.
	1.
	2.
	3.
	4.