

**Class Notes**

*Human Genome Project,  
Gene Therapy, & Cloning*

**Questions/Main Idea:**

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

Period: \_\_\_\_\_

Date: \_\_\_\_\_

**Notes:**

How much DNA is in one cell?

What is the **Human Genome Project**?

What were the goals of the human genome project?

How did they do it?

What is there left to do?

How can we use the information?

What is **Gene Therapy**?

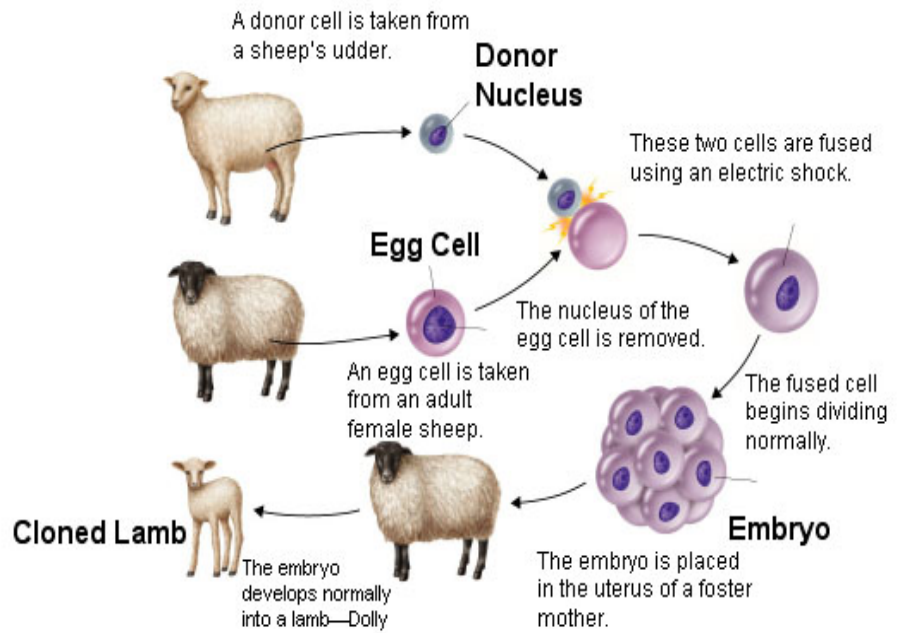
How does Gene Therapy Work?

What are the problems with Gene Therapy?

What is **cloning**?

1. Remove the nucleus from an egg cell and a regular cell from a donor.
2. Fuse the enucleated cell with a regular cell by electric shock
3. The new fused cell begins dividing, just as a fertilized egg would
4. The embryo is placed in the uterus of a foster mother and allowed to develop normally
5. The foster mother gives birth to a genetic clone of the original donor!

How do you clone an organism?



Why might we want to clone?

What are the risks of cloning?

**Summary:**
