Genetics Cracking the Code of Life DVD

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

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

1. What percentage of genes do humans share with bananas?
2. What do you think the message is that has gotten passed from the first form of life?
3. Describe how the DNA looked in the test tube.
4. Humans have only twice as many genes as a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
5. What are the four bases in DNA?
6. Every baby born is 99.9% genetically identical to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
7. How many years did it take to find one marker for breast cancer?
8. What was the diagnosis of Hayden and what does the disorder do?
9. What change in the DNA causes Tay-Sach’s?
10. Would you be willing to take a test to tell you if your children would be at risk for certain disorders and diseases? Why or why not?
11. How long did the government originally think it would take to complete the Human Genome Project?
12. What company did Venter create? How have you already heard of this company?
13. Where did Celera get some of their information on the human genome?
14. Where did the DNA that the government was using come from?
15. What was the celebration for?
16. Identify the gene that has been patented.
17. What did Riley test positive for? What is characteristic about this disease?
18. What is the protein normally supposed to do? What happens to this protein in cystic fibrosis?
19. How many genes do humans have?
20. Why would it be better to test for a gene within a family line?
21. Why is Iceland a good place to study the location of genes in the DNA?
22. Do you think a company should have access to your personal medical records to look for genes? Why or why not?
23. What gene did they use to create glowing mice?
24. Which organization finally finished sequencing the human genome first?