**IB Biology I – Genetics Video** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block: \_\_\_\_\_

Using your notes from the video answer the following questions.

1. Who was the first break through in genetics? Describe the break through?
2. What organism was used in the break through above? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. What animal is known as “the model animal of genetics”? Give two reasons why this is.
4. What was Thomas Morgan’s discovery?
5. State Tatum and Beadles’s Hypothesis. \_\_\_\_\_\_ \_\_\_\_\_\_\_ \_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ hypothesis
6. Explain Tatum and Beadle’s theory and the organism they worked with.
7. After ignoring her work in 1951, Barbara McClintock worked with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and discovered what?
8. What was the significance of Hershey & Chase?
9. Which scientist worked alongside Watson and Crick but died before this person could receive the Noble Pease Prize?
10. What is the significance of DNA fingerprinting? What was the first case of DNA fingerprinting?
11. Describe the purpose and function of RNA interference?
12. Name two scientists that received the Noble Peace Prize in science.