

Name \_\_\_\_\_ Block \_\_\_\_\_ Date \_\_\_\_\_

### The Double Helix Film Questions

1. Describe the unanswered question about trait **inheritance**. What did scientists not know? (0:30)
2. The biological molecule responsible for **inheritance** had to have 2 special qualities: (0:50)
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3. 2 scientists who were trying to find the molecule responsible for **heredity** were... (1:30)
4. List 2 possible molecules that could have made up **genes**. Circle which one was “the better bet,” and explain why. (3:15)
5. Why did **Watson** and **Crick** believed it was important to discover the molecular structure of **DNA**. (4:15)
6. Identify the technique used to observe molecules such as **DNA** (4:30), and identify the scientist working at King’s College who performed it. (5:55)
7. Explain why it “made sense” for **Watson** and **Crick** to place the “**bases**” on the outside of their first helix model. (8:00)
8. Explain why **Rosalind Franklin’s “Photo 51”** was important. (10:35)
9. Describe **Erwin Chargaff’s** observation regarding DNA. (11:50) Explain how his work eventually influenced **Watson’s DNA model**. (14:00)
10. Describe how the structure of **DNA** fulfilled the two “special qualities” (from question #2) that were required of the molecule responsible for **inheritance**. (14:45)