

Student Name _____

DNA Video: The Secret of Life

Group #1

This group focuses on the motivations, reasons, and benefits of doing science for each of the main players in the DNA drama. For each person, attempt to describe as much as you can their reasons for pursuing DNA's structure. What moves or drives them? What do they like and enjoy? What are the personality characteristics that play into their actions? Why do they research and model?

Rosalyn Franklyn:

Linus Pauling:

Jim Watson:

Francis Crick:

Maurice Wilkins:

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Group #2

This group will focus on the morality of the scientists' behavior during the sequencing of DNA's structure. Describe at least three situations where the rules and practices of good scientific research and behavior were not observed. Who broke the rules? Who suffered? Who benefited? What was the specific "rule" or cultural practice that was broken?

Situation #1:

Situation #2:

Situation #3:

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Group #3

This group will focus on the methodologies used during the sequencing of DNA (what methods were used to determine DNA's structure). For each team in the film, describe their approach to solving the mystery of DNA, the pros and cons of that approach, and the final result.

Team #1 – Maurice Wilkins and Rosalyn Franklin

Research Method:

Pros & Cons:

Final Result:

Team #2 – Linus Pauling

Research Method:

Pros & Cons:

Final Result:

Team #3 – James Watson and Francis Crick

Research Method:

Pros & Cons:

Final Result: