

Video Worksheet - Secret of Photo 51

We are watching the NOVA video entitled "Secret of Photo 51." This video demonstrates the race to determine the structure of DNA during the 1940s and 1950s. Of particular interest through the video, we see how a female scientist, Rosalind Franklin, was of essential to the discovery.

1. In 1962, who was awarded the Nobel Prize for the discovery of the structure of DNA?
(Please give three names)
2. Which of those three wrote the book "The Double Helix"?
3. How did he characterize Rosalind Franklin in his book?
4. What was Rosalind Franklin like as a child?
5. Where did she study physics and chemistry?
6. What city did Rosalind Franklin perfect her work in crystallography in?
7. Where in England is Rosalind Franklin offered a position?
8. What misunderstanding occurred between Franklin and Maurice Wilkins?
9. What was the environment like for a female scientist? What nicknames was Franklin given?
10. What two forms of DNA did Franklin discover?

Name _____ Period _____ Date _____

11. Who is in the audience listening to Franklin's talk? What does he want to do with her information?

12. Who gives away Franklin's unpublished work? To whom does he give it to?

13. When did Franklin get her best picture? What did she title it?

14. The race is now in earnest. How do the "discoverers" come to their conclusion about the structure of DNA? What information did they need?

15. Did Franklin approve of the model in 1953?

16. Where was Franklin's article placed in the journal *Nature* on the structure of DNA?

17. Where does Franklin choose to go after the publication of her article?

18. What does she call her greatest discovery?

19. What happened to Franklin in 1956?

20. When did Franklin pass away?

21. Who gave Rosalind Franklin credit for her work in science in his own Nobel Prize speech?

22. In general, why was Rosalind Franklin not respected by her fellow scientists? (four thoughts...)