

Name:

Period:

Date:



THE SECRET OF PHOTO 51

Directions: Answer the following while viewing the video

1. **What 2 scientists** are usually credited with the discovery of the structure of DNA, including the award of the 1962 Nobel Prize? _____

2. **Describe** how these scientists referred to Rosalind Franklin's work – what was the overall tone or message about her?

3. **Where** was Rosalind Franklin born (what country)? _____

4. **True or false:** As a young girl, Rosalind Franklin was successful and enjoyed life.

5. What **historical event(s)** were happening at this time in her life? _____

6. What did Franklin use **X-ray diffraction show**? What **structure** does it show? (HINT: the answer is not DNA...)

7. **Describe** why Franklin and Maurice Wilkins did not get along at King's College.

8. How does James Watson **find out** about the first X-ray diffraction pictures of DNA?

9. Why did Franklin concentrate on the **A form** of DNA?

10. What **nickname** is Franklin given? _____

11. Is the famous photo 51 of the **A or B form**? _____

12. **What** were all the scientists racing to find out? _____

13. **How important** was Franklin's Photo 51 in helping Watson & Crick come to their conclusions about DNA?

14. What **specific topic** did Franklin work on after working on DNA? _____

15. What **happened** to Rosalind after 1956?

16. In 1962, three scientists got the Nobel Prize for their work on DNA. Was any **significant credit** given to Rosalind Franklin at that time? _____

17. How did other scientists **react** to Watson's book "The Double Helix?" What **happened** as a result?

