Rosalind Franklin's Beautiful Twist

Name _____ Date _____

Instructions: Read each question carefully and choose the best answer.

1. What is the author's purpose?

Ⓐ to persuade

Ⓑ to describe a process

Ⓒ to inform

Ⓓ to entertain

2. Why is Rosalind Franklin remembered today?

Ⓐ She was Benjamin Franklin's daughter.

Ⓑ She discovered DNA.

Ⓒ Mountain climbing was extremely important to her.

Ⓓ Her work was important in helping other scientists understand DNA.

3 Besides Rosalind, who else was trying to figure out the structure of the DNA molecule?

Ⓐ Jim Watson and Francis Crick

Ⓑ Linus Pauling

Ⓒ Maurice Wilkins

Ⓓ All of the above

4. Read this sentence: *Rosalind encountered* ***gender discrimination*** *all of her life.* What is **gender discrimination**?

Ⓐ the effects of X-ray exposure

Ⓑ unfair treatment because she was a woman

Ⓒ difficulty sharing her discoveries

Ⓓ being made fun of for the way she dressed

5. Rosalind went to France _____.

Ⓐ after World War II

Ⓑ during World War II

Ⓒ in her childhood

Ⓓ to die

6. Why was Rosalind's work important to other scientists researching DNA?

Ⓐ King's College wanted a female scientist.

Ⓑ Maurice Wilkins was doing a good job.

Ⓒ Rosalind took the finest X-ray pictures.

Ⓓ No one else believed in DNA.

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Name _____ Date _____

7. How do we know Rosalind was extremely dedicated?

Ⓐ She never worked late.

Ⓑ She liked to climb mountains.

Ⓒ Each photo of DNA took her one hundred hours to create.

Ⓓ None of the above

8. How were Watson and Crick dishonest with Rosalind?

Ⓐ They mocked her and called her Rosy.

Ⓑ They used her blocks to build models of molecules.

Ⓒ They argued often with her.

Ⓓ They took photograph 51 without asking and didn't give her credit.

9. Read this sentence: *DNA molecules contain* ***genes****.* What are **genes**?

Ⓐ basic biological units inherited from parents that transfer traits

Ⓑ denim pants made for outdoor work

Ⓒ photos taken of molecules

Ⓓ X-ray proof that all life is made up of atoms

10. What did Rosalind do after Watson and Crick became famous by stealing her work?

Ⓐ told her story to the newspaper

Ⓑ found another job at Birkbeck College

Ⓒ moved to France

Ⓓ went hiking and mountain climbing

11. Extended Response: Do you think Rosalind Franklin would also have won the Nobel Prize for her work on DNA if she had been alive? Why or why not?

12. Extended Response: Do you think Watson and Crick would have figured out the structure of DNA without using Rosalind's photographs? Why or why not?

Quick Check Answer Sheet

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Main Comprehension Skill: Sequence Events

1. Ⓒ *Author's Purpose*
2. Ⓓ *Main Idea and Details*
3. Ⓓ *Main Idea and Details*
4. Ⓑ *Vocabulary*
5. Ⓐ *Sequence Events*
6. Ⓒ *Cause and Effect*
7. Ⓒ *Cause and Effect*
8. Ⓓ *Cause and Effect*
9. Ⓐ *Vocabulary*
10. Ⓑ *Sequence Events*
11. Answers will vary but should include valid supporting arguments. Example: *I think Rosalind Franklin would also have won the prize because her work was an important part of the discovery of DNA.*
12. Answers will vary but should include valid supporting arguments. Example: *I think Watson and Crick would have figured out the structure of DNA, but it would have taken them much longer.*