

Inequities in Science (Biology)

Name: _____ Dr.



Research the biography of Rosalyn Franklin. Find an article about her contributions to the discovery of the double helix model of DNA. Answer the following questions based on your article:

1. What were Rosalyn Franklin’s contributions to the double helix model of DNA?

2. How were Rosalyn Franklin’s contributions obtained?

3. How was Rosalyn Franklin viewed by Watson and Crick at the time? Provide support for your answer.

4. Why do you think that “Watson and Crick” are today associated with the DNA double helix, and rarely Franklin?

5. Do you think inequities and bias exists in the scientific community? Use examples from your article to support your answer.

APA/MLA Reference: _____

Hidden Figures

Which mathematician (Katherine G. Johnson, Dorothy Vaughan or Mary Jackson) is most like you and why?

What is a human computer? What was their role in “Hidden Figures”?

What kind of Math (Calculus? Trigonometry? Geometry? Algebra? Something else?) did the mathematicians use in the movie? Why do you think so?

How was math applied in the movie (what did it allow NASA to do?)?

Do you think that humans will ever be eliminated from the pursuit of science and scientific discovery? Why or why not?

What kind of discrimination did you observe in the movie?

How is the discrimination depicted in the movie different from/similar to the kind of discrimination that occurs today?

What erroneous assumptions were made by characters in the movie?

Katherine Johnson — the “computer” who calculated Apollo 11’s launch windows and who was awarded the Presidential Medal of Freedom by President Obama at age 97 in 2015, three years after the accolade was conferred upon John Glenn, the astronaut whose flight trajectory Johnson had made possible. Though John Glenn had been recognized for his 1962 flight multiple times. Why do you think it took over 50 years for Katherine Johnson to be recognized? How do you think such oversights could be avoided in the future?
