

ASTROPHYSICS WITH DR BRICE ORANGE AND DR DAVID MORRIS

TALKING POINTS

KNOWLEDGE:

1. When was the microscope invented? How long after that was the telescope invented?
2. What does HBCU stand for?
3. How many weather stations are based at the Etelman Observatory? How many more are to be included when the observatory expands?

COMPREHENSION:

4. How would you describe the Etelman Observatory to someone who has not read this article?
5. What role is Etelman playing in promoting diversity and inclusion in physics and engineering?

APPLICATION:

6. Can you think of some reasons why it is important to embrace diversity and inclusion?
7. How does science benefit generally from the inclusion of young people at the start of their careers?

ANALYSIS:

8. Etelman Observatory forms part of many collaborations across the world. In what ways does this benefit the students and researchers based at the respective institutions?
9. What do you think motivates Brice and David to do the work they do?

EVALUATION:

10. How valuable was the time Ruel spent at Etelman and why?
11. Exploring space and the Universe gives rise to an understanding about life and the meaning of it. Can you think of some fundamental questions that might be answered through exploring these avenues? Why is it important to ask these questions? Does it matter whether or not these questions are answered? If not, why?

ACTIVITIES YOU CAN DO AT HOME OR IN THE CLASSROOM

- Imagine you have been at the Etelman Observatory for the past few years. Now answer all of the questions we put to Ruel Mitchel – use your imagination! Try and answer each question from your own personal perspective – what you achieved and what you are looking forward to in the future. Then try and make it a reality, even if you study elsewhere!
- Fast forward 20 years and imagine you are a successful researcher in your chosen career. Use the article as a template to answer the questions that David and Brice did.

MORE RESOURCES

ETELMAN OBSERVATORY

There are two websites that you can visit to find out all you need to know about the Etelman Observatory:

eo.uvi.edu/
observatory.uvi.edu/default.aspx