

Name \_\_\_\_\_

## Unraveling the Mysteries of the Universe: A Day in the Life of a Physicist

### Open-Ended Response Questions

1. Imagine you are a Physicist specializing in astrophysics. How might your daily tasks and responsibilities differ from those of a Physicist working in particle physics?
2. Explain the significance of mathematical modeling in theoretical physics, and how Physicists ensure the validity of their models.
3. If a Physicist encounters unexpected data during an experiment, describe the steps they might take to understand and interpret the results.
4. How do you think advancements in technology, such as supercomputers and particle accelerators, have impacted the field of Physics in recent years?

