

Name _____

Quantum Computing vs. Classical Computing: A Cosmic Clash of Computation

Open-Ended Response Questions

1. Discuss the potential impact of quantum computing on cryptography and why it is considered a significant application of this technology.
2. Imagine explaining quantum superposition to a friend who has never heard of it before. How would you describe it, and what analogies or examples might you use to make it easier to understand?
3. If you were to pursue a career in quantum computing, what specific challenges related to this technology would you be interested in addressing, and how might you contribute to overcoming them?
4. Describe a hypothetical scenario where quantum computing has become an integral part of everyday life. How might it change the way we solve problems, interact with technology, or advance scientific research?

