

Name _____

Quantum Computing: Unlocking the Potential to Solve Unsolvable Problems

Open-Ended Response Questions

1. Discuss the impact of quantum computing on cybersecurity, considering its potential to factorize large numbers and its implications for modern encryption. How can organizations prepare for quantum threats?
2. Imagine a scenario where quantum computing becomes widely accessible and affordable. How might this transform industries and scientific research by addressing currently unsolvable problems?
3. If you were a researcher developing quantum algorithms, which unsolved problem would you be interested in tackling with quantum computing, and why? What potential benefits could your research bring to that field?
4. Considering the limitations of quantum computing, how do you envision the future coexistence of classical and quantum computing technologies, especially regarding their roles in solving problems?

