

Name \_\_\_\_\_

## Quantum Algorithms: Unleashing the Power of Quantum Computing

### Short Answer

1. How do quantum algorithms differ from classical algorithms in terms of their ability to explore solutions to a problem?
2. Explain the concept of superposition and how it is utilized in quantum algorithms.
3. Provide an example of a problem that quantum algorithms are particularly well-suited to solve.
4. What challenges do quantum algorithms face, and why are they not superior for all types of problems?
5. Describe one real-world application where quantum algorithms are making a significant impact.

