

Name _____

The Code of Equations: How Differential Equations Drive Computer Science

Open-Ended Response Questions

1. Can you explain how differential equations are used to simulate real-world phenomena in computer science?
2. How might computer scientists use differential equations to optimize algorithms for faster performance?
3. Why are differential equations important in the field of machine learning, and how do they contribute to the development of artificial intelligence?
4. How do differential equations contribute to the creation of realistic computer graphics, and what challenges do computer graphics programmers face in using them?

