Name _____

The Time Machine of 3D Printing: How Long Does It Take to Print an Object?

Open-Ended Response Questions

1. Imagine you want to 3D print a small but highly detailed figurine and a large, simple cube. Discuss how each of the factors mentioned in the passage would affect the printing time for these two objects.

2. What are some strategies and considerations you can think of to minimize printing time while maintaining print quality in a 3D printing project?

3. Can you think of an example where choosing a thicker layer height in 3D printing might be preferable, despite the potential trade-off in print quality? Explain your reasoning.

4. Suppose you need to 3D print a complex, large object using a shared 3D printer with a long printing queue. How might you plan and schedule your print to minimize delays and waiting time?

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