

Name \_\_\_\_\_

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

### Short Answer Key

1. The size and complexity of an object influence printing time as smaller, less complex objects generally print faster, while larger and more intricate designs can take considerably more time due to the precision required.
2. Layer height refers to the thickness of each layer of material in 3D printing. Smaller layer heights increase printing time but result in finer detail and improved print quality.
3. Support structures are used to prevent overhangs or sagging during 3D printing. They may increase printing time as they need to be printed and later removed.
4. The choice of material can affect printing time due to variations in melting and flow requirements. Some materials may require higher temperatures, extending printing time.
5. The printing queue can impact the time it takes to start and complete a 3D print when using a shared 3D printer or service, as prints are processed in the order they are received.

