

Name _____

Mechanics of a Screw

Short Answer Key

1. The pitch of a screw's thread determines its mechanical advantage. A smaller pitch requires more effort to turn but offers greater holding power, while a larger pitch requires less effort but provides less holding power.
2. An example of an everyday object using screws in electronics is a laptop. Screws secure the various components inside the laptop, allowing for assembly, repair, and maintenance.
3. Self-drilling drywall screws have a fine thread and a sharp, pointed tip that allows them to create their own holes as they are driven into drywall. This eliminates the need for pre-drilling holes, making the installation of drywall faster and more convenient.
4. Screws are used in vehicles to secure various parts and components, such as engine components, body panels, and interior features. They are essential for ensuring the structural integrity and safety of vehicles.
5. Screws in jar lids and bottle caps create a secure seal that prevents air, moisture, and contaminants from entering the container. The screw thread tightly seals the contents, maintaining freshness and preventing spills during transport.

