Virtual Materials Testing Lab

This interactive simulator enables students to experiment with different types of material to determine their characteristics.

Thirteen different materials are available to perform any or all of six laboratory experiments on.

Experiments include testing density, heat conduction, melting point, tensile strength, impact strength, electrical conductivity and hardness.

Available Materials

- Copper
- Brass
- Steel
- Aluminum (Aluminium)
- Nylon
- PVC
- Acrylic
- Rubber
- Hardboard
- Softwood
- Hardwood
- Ceramic
- Fiber Glass (Fibre Glass)

Available Tests

- Density
- Heat conduction and Melting Point
- Tensile Strength – Young's Modulus
- Izod Impact Test
- Electrical conductor/insulator
- Brinell Test
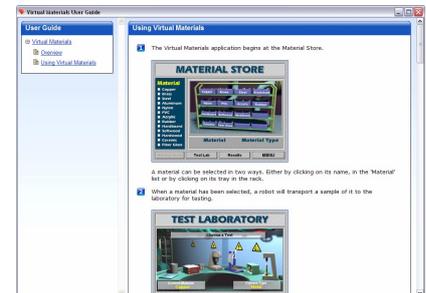
User Guide

The simulator includes a user guide, which explains how to select and test materials. It also explains how to save and load test results.

Minimum Computer Requirements

- Windows® 2000 or later
- 50 MB free hard disk space
- Flash Player v9 or later (supplied on CD)

Languages Supported

- English (US)
- English (GB)
- Spanish

Order as:

VMAT1/SL   Virtual Materials Testing Lab
            Site License