

Creating 3D Models to Illustrate Scientific Principles (*Sciences, Health*)

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There are many open-source designs for models that illustrate scientific principles in physics, chemistry, math and health.

Printables.com – Perhaps the best because it's organized by Categories

- Healthcare: Medical Tools
- Hobby & Makers
 - Automotive models
 - Mechanical parts
- Learning
 - Chemistry & Biology
 - Engineering
 - Math
 - Physics & Astronomy
 - Haptic models
 - Other 3D objects for learning
- Tabletop Miniatures – components for architectural models
- Toys & Games: Building Toys – LEGO parts
- World & Scans: Architecture models
- Many more available via Search:
 - Bones (collections)
 - Gear
 - Washers
 - Connectors

Thingiverse.com – Perhaps oldest community with over 1 million designs

- Limited organization by Categories
 - Learning
 - Models
 - Tools
- Can filter by *Educational Only* use
- Best to use Search, especially when looking for a specific object

Other Websites:

- Thangs.com
- Cults3D.com
- Yeggi.com
- Grabcad.com
- Free3D.com
- Tinkercad.com – has projects you can modify
- Google – add .STL or 3D printing to desired item name

Notes on making better illustrative models:

- Models can be scaled within slicer to appropriate size
- Look for dynamic models, models with multiple components
- Use multiple colors to differentiate components