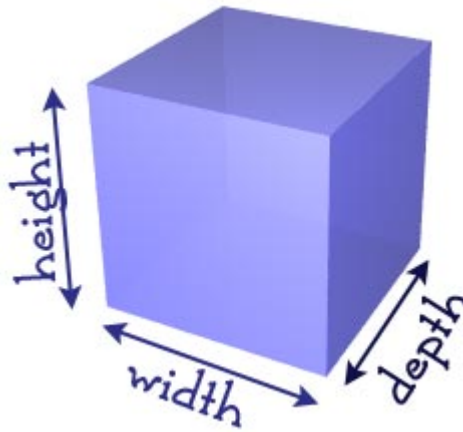


# Solid Geometry

**Solid Geometry** is the [geometry](#) of three-dimensional space, the kind of space we live in ...

## Three Dimensions

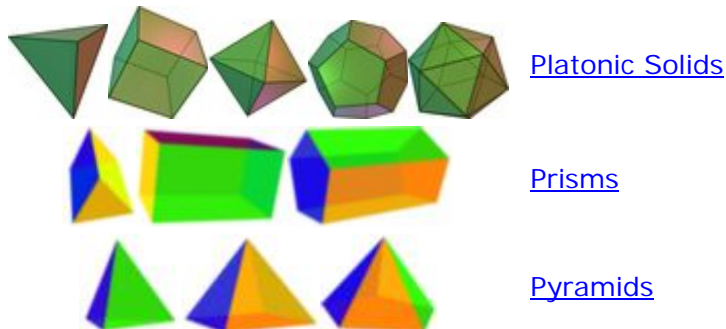
It is called **three-dimensional**, or **3D** because there are three dimensions: *width*, *depth* and *height*.



There are two main types of solids, "Polyhedra", and "Non-Polyhedra":

## Polyhedra

A [polyhedron](#) is a solid made of flat surfaces. Each surface is a polygon. Examples:



## Non-Polyhedra

Some solids have curved surfaces, or a mix of curved and flat surfaces (so they aren't polyhedra). Examples:



[Sphere](#)



[Torus](#)



[Cylinder](#)



[Cone](#)

## Properties

Solids have *properties* (special things about them), such as:

- **volume** (think of how much water it could hold)
- **surface area** (think of the area you would have to paint)

<http://www.mathsisfun.com/geometry/solid-geometry.html>