



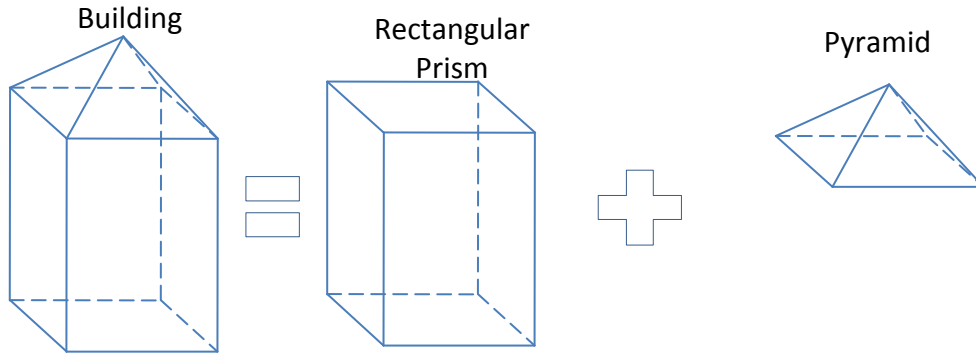
Pacific Earthquake Engineering Research

K-12 Outreach Program

How to Calculate Volume



One important aspect of your structure is how much useable space it has. Volume is a measure of how much space your building contains. There are two main shapes that a building can have, the rectangular prism and the pyramid. Do not worry if your building does not form a pyramid, because they are not required (but could be useful for increasing your building volume). Below are some examples of how you can calculate your building volume.



<p>Rectangular Prism Volume</p> <p>Volume = Length x Height x Width</p> <p>Example: Volume = (3 in.) x (5 in.) x (2 in.) = 30 in.³</p>		
<p>Pyramid Volume</p> <p>Volume = $1/3$ x Length x Width x Height</p> <p>Example: Volume = $(1/3)$ x (3 in.) x (2 in.) x (1 in.) = 2 in.³</p>		
<p>Triangular Prism Volume</p> <p>Volume = $1/2$ x Length x Width x Height</p> <p>Example: Volume = $(1/2)$ x (6 in.) x (3 in.) x (1 in.) = 9 in.³</p>		