Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ February 11, 2015

Volume of a Triangular Pyramid

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| https://dr282zn36sxxg.cloudfront.net/datastreams/f-d%3Ab052b525658ffd25bd24a3ad74c8e6f9faa62e234a605bc9e577423b%2BIMAGE%2BIMAGE.1 |
| Area of the base triangle: | Area of the base triangle: |
| Height of the pyramid: | Height of the pyramid: |
| **V =** $\frac{Area of the base x height}{3}$ | **V =** $\frac{Area of the base x height}{3}$ |
| Volume of the triangular pyramid: | Volume of the triangular pyramid: |



Today, we built a model of a triangular pyramid. A pyramid is a shape that has triangles on each side and comes to a point on top.

Can anyone remember what this shape is called?

The volume of a triangular pyramid is related to the volume of a triangular prism.

VIDEO CLIP

Which is bigger a triangular pyramid or a triangular prism?

How many pyramids fit into a prism? 3

Notice the prism and the pyramid have the same base and the same height.

So we could say that a prism is 3 times larger than a pyramid. We could also say that a pyramid 3 times smaller. So to find the volume of a triangular pyramid, we’ll determine the area of the base multiply that by the height and then divide by 3.