

Name: \_\_\_\_\_

Volume Formula Flashcards

Area of a Rectangle/Parallelogram	Area of a Triangle
Area of a Circle	Volume of a Prism
Volume of a Pyramid	Volume of a Sphere
Changing Dimensions (Effect on Volume)	Using the Volume of a Prism to Determine Base Area
Using the Volume of a Pyramid to Determine Base Area	Using the Volume of a Sphere to Determine Radius

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Volume Formula Flashcards

$B =$	$B =$
$V =$	$B =$
$V =$	$V =$
$\frac{V}{H} = \frac{BH}{H}$ $\frac{V}{H} = B$ <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <math display="block">B = \frac{V}{H}</math> </div>	$= \text{New Volume}$ <p style="text-align: center;">or</p> $= \text{New Volume}$
$3 \cdot V = \frac{4\pi r^3 \cdot 3}{3} \rightarrow 3V = 4\pi r^3$ $\rightarrow \frac{3V}{4\pi} = \frac{4\pi r^3}{4\pi} \rightarrow \frac{3V}{4\pi} = r^3$ <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <math display="block">r \cdot r \cdot r = \frac{3V}{4\pi}</math> </div>	$3 \cdot V = \frac{BH \cdot 3}{3} \rightarrow 3V = BH \rightarrow \frac{3V}{H} = \frac{BH}{H}$ $\frac{3V}{H} = B$ <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <math display="block">B = \frac{V}{H}</math> </div>

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Volume Formula Flashcards

$B = \frac{bh}{2}$	$B = bh$
$V = BH$	$B = \pi r^2$
$V = \frac{4\pi r^3}{3}$	$V = \frac{BH}{3}$
$\frac{V}{H} = \frac{BH}{H}$ $\frac{V}{H} = B$ <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <math display="block">B = \frac{V}{H}</math> </div>	<p style="text-align: center;"> <i>(Volume)(Change)<sup>3</sup> = New Volume</i>              or  <i>(Vol)(Ch)(Ch)(Ch) = New Vol</i> </p>
$3 \cdot V = \frac{4\pi r^3 \cdot 3}{3} \rightarrow 3V = 4\pi r^3$ $\rightarrow \frac{3V}{4\pi} = \frac{4\pi r^3}{4\pi} \rightarrow \frac{3V}{4\pi} = r^3$ <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <math display="block">r \cdot r \cdot r = \frac{3V}{4\pi}</math> </div>	$3 \cdot V = \frac{BH \cdot 3}{3} \rightarrow 3V = BH \rightarrow \frac{3V}{H} = \frac{BH}{H}$ $\frac{3V}{H} = B$ <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <math display="block">B = \frac{V}{H}</math> </div>