

## About the Mathematics in This Unit (page 1 of 2)

## Dear Family,

**Prisms and Pyramids** 

Our class is starting a new mathematics unit about geometry and measurement called *Prisms and Pyramids*. During this unit, students study volume—the amount of space a 3-D object occupies. They use paper boxes and cubes to develop a strategy for finding the volume of any rectangular prism. Using concrete materials, they also find the volume of other geometric solids, such as pyramids, cylinders, and cones.

Throughout the unit, students work towards these goals:



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Date



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BENCHMARK/ GOAL	EXA	MPLES
Identify how the dimensions of a box change when the volume is changed.	Compare the volumes and the dimensions of these rectangular prisms. Box A: Box A: Box B: Box B: Box B has twice the volume of Box A; you can see that Box A was doubled to build box B. The dimensions of Box A are $3 \times 2 \times 4$ .	
Explain the relationship between volumes of prisms and pyramids with the same base and height.	The dimensions of Box B are d Only the dimension across the This cube and this pyramid have the same square base and they are the same height.	

In our math class, students spend time discussing problems in depth and are asked to share their reasoning and solutions. It is important that children solve math problems in ways that make sense to them. At home, encourage your child to explain his or her math thinking to you.

Please look for more information and activities about *Prisms and Pyramids* that will be sent home in the coming weeks.

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