Math 7



Angles, Triangles, and Prisms

Math 7 Curriculum

| Power Objective | P.O. #7: Describe angle relationships, draw triangles, and solve problems involving cross sections, surface area, and volume. (P.O.#7 Proficiency Rubric) | | |
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| Academic Vocabulary | net two-dimensional three-dimensional perimeter area volume surface area trapezoid prism | cylinder cone sphere height base estimate dimension visualize calculate | construct measure explore develop fill wrap demonstrate describe |
| Enduring Understandings Students understand that | Increasing volume does not necessarily mean the surface area is increasing. Volume can be thought of as "filling" an object and surface area can be thought of as "wrapping" the outside of an object. Both ideas can be used to inform decisions in the real world. | | |
| Essential Questions | How much wrapping paper do you need to wrap a present? How can you change the dimensions of a cube or box to change surface area or volume. How can a piece of paper that is folded up have two different volumes? What quantities are involved in this problem? What am I being asked to calculate? (Surface area of volume) Is an exact answer required? What method should I use? What strategies for formulas might help? | | |