

Don't Be Cross With Me

The cross section of a three-dimensional figure shows the intersection of the three-dimensional figure with a plane.

<p>Cube</p> <p>Four diagrams illustrate different cross-sections of a cube. 1. A horizontal plane parallel to the top and bottom faces results in a square cross-section. 2. A vertical plane parallel to the front and back faces results in a rectangular cross-section. 3. A diagonal vertical plane parallel to two opposite edges results in a triangular cross-section. 4. A diagonal vertical plane parallel to two opposite edges, but not through the corners, results in a trapezoidal cross-section.</p>	<p>Square Pyramid</p> <p>Three diagrams illustrate different cross-sections of a square pyramid. 1. A horizontal plane parallel to the base results in a square cross-section. 2. A diagonal vertical plane parallel to one of the slanted edges results in a trapezoidal cross-section. 3. A vertical plane passing through the apex and parallel to one of the slanted edges results in a triangular cross-section.</p>
<p>Triangular Pyramid</p> <p>Two diagrams illustrate different cross-sections of a triangular pyramid. 1. A horizontal plane parallel to the base results in a triangular cross-section. 2. A vertical plane passing through the apex and parallel to one of the slanted edges results in a triangular cross-section.</p>	<p>Sphere</p> <p>Two diagrams illustrate different cross-sections of a sphere. 1. A horizontal plane passing through the center of the sphere results in a great circle cross-section. 2. A horizontal plane passing through the sphere but not through the center results in a smaller circle cross-section.</p>
<p>Cylinder</p> <p>Two diagrams illustrate different cross-sections of a cylinder. 1. A horizontal plane parallel to the top and bottom circular bases results in a circular cross-section. 2. A vertical plane parallel to the side of the cylinder results in a rectangular cross-section.</p>	<p>Cone</p> <p>Two diagrams illustrate different cross-sections of a cone. 1. A horizontal plane parallel to the circular base results in a circular cross-section. 2. A vertical plane passing through the apex and parallel to one of the slanted edges results in a triangular cross-section.</p>