

INTRO TO 3D FIGURES

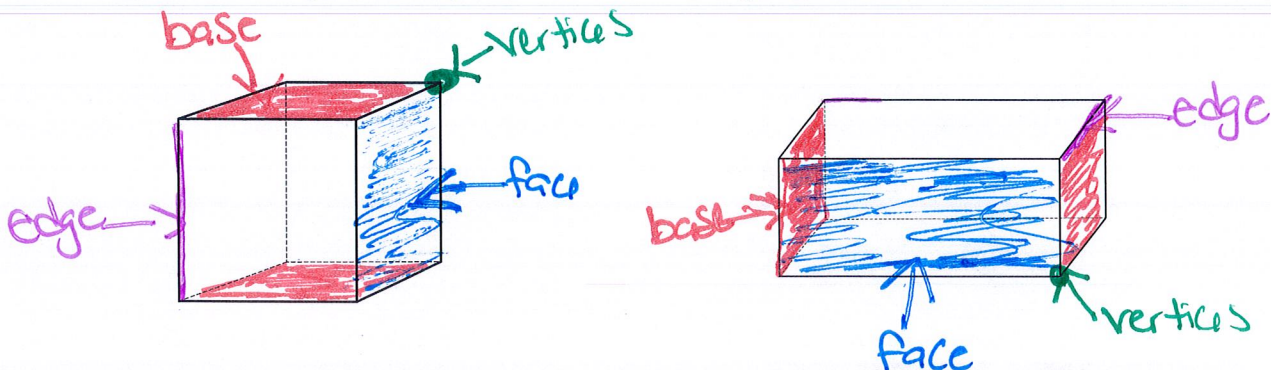
FACE	<ul style="list-style-type: none">Faces of a three-dimensional figure are any of the <u>Sides</u>, including the bases.
BASE	<ul style="list-style-type: none">The base of a three-dimensional figure <u>name</u> the shape.A prism has two bases, which are <u>opposite</u> to each other and <u>do NOT</u> touch.
VERTEX	<ul style="list-style-type: none">The vertex is the <u>Corner</u> of a three-dimensional figure.
EDGE	<ul style="list-style-type: none">The edge is the <u>line segment</u> that joins two faces.

Brainstorm different examples of 3D figures you see every day.

Watched song video that showed this

Each 3D figure has specific Properties.

Label the vertices, edges, faces, and bases on the figures below.



How are cubes and rectangular prisms the same? What makes them unique?

Both have 8 vertices, 12 edges, 6 faces.
A cube has all congruent square shaped faces.
A rectangular prism has rectangular faces and all are NOT congruent.

Complete the chart below by identifying the unique properties of each 3D figure. Use colored pencils to shade the various parts according to the directions.

SHAPE	NAME	FACES How many? What shape? Shade blue	BASES How many? What shape? Shade red	VERTICES How many? Shade green	EDGES How many? Shade purple
	Cube	4 Square	2 Square	8	12
	Rectangular Prism	4 Rectangle	2 Rectangles	8	12
	Triangular Prism	3 rectangle	2 triangles	6	9
	Square Pyramid	4 triangle	1 Square	5	8
	Triangular Pyramid	3 triangle	1 triangle	4	6

a. What do you notice about the difference between pyramids and prisms?

Prism have more rectangular faces and pyramids have triangular faces. A pyramid only has 1 base










b. What makes a triangular prism unique?

It has 2 triangle bases and 3 rectangular faces.

Summarize today's lesson:

INTRO TO 3D FIGURES

The clues below describe different three dimensional figures. Use your understanding of the properties of each shape to determine which figure the clue is describing. Record your solution in the table below.

<ul style="list-style-type: none"> • My faces are not all congruent. • I contain 12 edges. • I contain 6 faces.  _____	<ul style="list-style-type: none"> • All of my faces are congruent. • I have 8 vertices. • I am a 3D figure.  _____	<ul style="list-style-type: none"> • I have a triangular shaped base. • I am composed of 3 rectangular faces. • I am a 3D figure.  _____
<ul style="list-style-type: none"> • I have 5 vertices. • I have one rectangular base. • I am a solid figure.  _____	<ul style="list-style-type: none"> • I have two bases that are not rectangular. • I have 6 vertices. • I have 9 edges.  _____	<ul style="list-style-type: none"> • I can have multiple different representations. • All 6 of my faces are square.  _____
<ul style="list-style-type: none"> • I am composed of only rectangular faces. • I have 8 vertices. • I am a solid figure.  _____	<ul style="list-style-type: none"> • I have 6 edges. • I have 4 vertices. • All of my faces meet at a vertex.  _____	<ul style="list-style-type: none"> • I have 8 edges. • Four of my faces are triangles. • I am a solid figure.  _____