



Front and back of castle

Labels--

Purple - cone

Orange - cylinder

Blue - wedge

Light blue - circle

Green - triangular prism

Red - box

Pale blue - diamond

I will center the box on 0, 0 so I will use that as a reference

It will be 10 units long and 10 units deep. It will be 3 units tall. Unrotated

Box 1-- width 10.0f, height 3.0f, depth 10.0f translation(0.0f, 1.5f, 0.0f)

The corner cylinders will be centered on the edges of the main box. They will be 2 units in radius on the bottom and 5 units tall.

Cylinders 1-4 bottom radius of 1.0f, height of 5.0f and top radius of 1.9f so they are not fully straight.

Translations

1. -5, 2.5, -5
2. -5, 2.5, 5
3. 5, 2.5, 5

4. 5, 2.5, -5

The pyramid on top is just a cut off pyramid centered on top of the box
It will have a base size of 10.0f and a top size of 8.0f, it will have a height of 1.0f

Translation 0, 3.5, 0

The cylinder on top will be in the center of the pyramid
It will be 1.0f in radius and 2.0f tall, it will be 2.0f on the top and bottom

Translation 0, 5.0f, 0

The cone on top will be 3.0f in radius and go up 2.0f.

It will be 0, 6.0f, 0

The diamond floating above will be floating above the cone

It will be 2.0f tall and 1.0f width

It will be 0, 9.0f, 0

The prisms on the tops of the cylinders on the edges will be 1.5 units wide, 1.5 units deep and 1 unit tall

They will be on top of the cylinder

Positions:

1. -5, 5.5, -5
2. -5, 5.5, 5
3. -5, 5.5, 5
4. 5, 5.5, -5.5

The wedge in front will be 1.0 units tall and 4 units long.
It will be placed at 0, 0.5, -7.

The two spheres will go beside the wedge

They will be 1 unit in radius

Positions will be

2.5, 0.5, -7
-2.5, 0.5, -7

Those should be all the objects in the castle design.