Materials: You will the power solids in the back of the room, play-doh, and dental floss
Grouping: Work in pairs

**Look on pg. 385 & 386 to review types of 2-dimensional figures before starting**

Square Pyramid:

1.) Go into the power solids box and find the square pyramid.

2.) Now, visualize a plane slicing through the pyramid. The places where the plane passes through the pyramid form a shape in the plane. Which shapes in the plane can be made this way, by slicing the pyramid? Use your model to help you visualize the shapes.

3.) Use modeling dough or modeling clay to make the same square pyramid. Slice straight through your pyramid with dental floss, as if you were slicing the pyramid with a plane. The place where the dental floss cuts through the pyramid should make a plane shape. What plane shape did you get this way? Put the pyramid back together, and try slicing it in a different way. Now what shape do you get? Find as many different plane shapes as you can.

Rectangular Prism:

1.) Go into the power solids box and find the rectangular prism.

2.) Now, visualize a plane slicing through the prism. Which shapes in the plane can be made this way, by slicing the prism? Use your model to help you visualize the shapes.

3.) Use modeling dough or modeling clay to make the same rectangular prism. Slice straight through your prism with dental floss, as if you were slicing the prism with a plane. What plane shape did you get this way? Put the prism back together, and try slicing it in a different way. Now what shape do you get? Find as many different plane shapes as you can.

Cone:

1.) Go into the power solids box and find the cone.

2.) Now, visualize a plane slicing through the cone. Which shapes in the plane can be made this way, by slicing the cone? Use your model to help you visualize the shapes.

3.) Use modeling dough or modeling clay to make the same rectangular prism. Slice straight through your prism with dental floss, as if you were slicing the prism with a plane. What plane shape did you get this way? Put the prism back together, and try slicing it in a different way. Now what shape do you get? Find as many different plane shapes as you can.