**Athletic Field Design Activity**

*In this activity you will be tasked with creating the outline and steps to create an athletic field of your choosing. You will create a drawing of your field to scale of its actual dimensions, figure out the steps required to do so, and finally making a larger scale of your field outside.*

**Phase 1**

1) Look up the actual dimensions of a basketball court and determine the scale actor.

2) What shape it the outline of the court? How could you create this using tools on paper? How could you create this using tools out doors on concrete?

3) What specific constructions and mathematical ideas will you need to do in order to create this field?

4) Do you know how to do those constructions on paper? What about on concrete?

STOP to discuss as a class

5) Label what constructions you need to be able to do in the picture.

6) List the steps you would take to create this basketball court.

**Phase II**

1) Find the actual dimensions of an athletic field of your choice.

2) Determine what shapes you will need to create a scaled drawing of the field/court.

3) Determine how you can perform the constructions/create each shape to create a paper scaled drawing.

4) Draw the field/court accurately with properly scaled measurements

5) Determine how you would be able to create an accurate construction to real size outdoors.