

**Kansas City, Here We Come**  
**A Navigator Activity to Reinforce Forms of Equation**

**Objective(s):**

Students become familiar with writing equations in different forms to match pictures of Kansas City Landmark. The types of equations include linear, quadratic, absolute value and exponential.

**Activity Overview:**

Students use the TI-Navigator Activity Center to submit equations in a form to match a given “target”. For example, in the picture of the shuttlecock at Nelson-Adkins Museum, the students would write an equation that would trace along the outside edge of the shuttlecock. There are 12 pictures to choose from in the file. In several pictures there are several types of equations that could be written.

**Activity Time: 20 minutes**

**TI-Navigator Activity**

Load the TI-Navigator program and click on the Activity Center icon. Clear any previous activity data by selecting **Edit | Clear Activity Data** then load one of the **Pictures** from the activity files. Choose the **Graph** tab within Activity Center.

1. On the TI-Navigator home screen click on the **Begin Class** button. Have students log into NavNet and go to Activity Center.
2. Instruct students to enter and send an equation that will trace along the given target.
3. Monitor progress and comment on what might be wrong with the shots that are missing the target.
4. Once students have successfully traced the target, load one of the other activity files and repeat the activity.

**After the Activity**

Have students discuss the different forms of the equations for each type of graph. Have them do a short journal entry that would explain how you can tell what a graph would look like by just looking at the equation.