Hungry, Hungry, Hungry Teenagers!

Systems of Inequalities

Recall from your class discussion:
★ Can you graph a linear function?
★ Can you graph a linear inequality?
★ Can you write linear inequalities from word problems?
★ If not, seek help from the great Woofus near the Swine Barn at the State Fair. If he can't help you... well, at least you found the Woofus. And now you are extra cool.

Plan Your Route
★ Head to the Midway
★ Then find the Tower Building Food Court
★ Finally, go to the Skyway Porch, near Big Tex

Optional Materials to Bring
★ Pen or Pencil
★ Notebook or Paper
★ Smartphone or Tablet

While You’re There
You will use information you gather at the State Fair to help you with THREE project goals:
1. Come up with a system of inequalities for the foods you discovered.
2. Design an Exquisite Corpse art project with a team.
3. Write a descriptive poem of the food you ate, imagining you’re writing it for someone who can’t see, taste, or smell.
But those goals are for back at school. The objective of your visit TODAY is to sample all your favorite foods! Record the cost of each food you try and even those you might like if you get full quickly.

**HUNGRY, HUNGRY, HUNGRY TEENAGERS!**:
- Investigate all the types of food offered at the Fair.
- Sample as many of the food options as possible.
  - Record the cost (in dollars not tickets) of each food you try or wish to try.
  - Make sure you record at least 2 dessert foods and 2 main dish items.
  - You can use the table below, if you’d like:

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<thead>
<tr>
<th>Type of Food</th>
<th>Cost (in $)</th>
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**EXQUISITE CORPSE (ART PORTION):** As you see and sample various foods at the Fair, make some sketches of your favorites. Hold on to them because you will need them for your art project!

Source: [http://blog.pshares.org/files/2015/06/Exquisite-Corpse.jpg](http://blog.pshares.org/files/2015/06/Exquisite-Corpse.jpg)