

Feast Your Eyes...

Sample & Scrutinize

FOODIES

QUEST 01 ALGEBRA 1

STATE FAIR OF TEXAS CURRICULUM

The State Fair of Texas is famous for its food. Concessionaires compete to win the Big Tex Choice Awards, and the top 2 winners are awarded the titles of best tasting and most creative. Explore the plethora of tasty treats that await you, and report back on your findings!



During this Foodie Quest, you will:

- ★ Investigate food at the State Fair of Texas.
- ★ Collect data about the food that is most interesting to you.
- ★ Present your findings in a graph, equation, and inequality.
- ★ Create visual representations of the data gathered to accompany your graph.



Learning Standards

- ★ Math (Algebra I) TEKS: A2B, A2C, A2H, A3D
- ★ Art TEKS: Art I: 1A, 2B
- ★ ELAR TEKS: EL(11)(B), EL(15)(D)
- ★ Career Development TEKS: EC2C



Source: http://66.media.tumblr.com/tumblr_mc644vPT9Klqczpr7o1_500.jpg

Before You Go – 15 min prep time, 30 min teaching time

You will be going the State Fair of Texas to explore the food options.

Before you go, you must be able to:

- ★ Write a 2-variable linear equation from a real world situation.
- ★ Solve for y .
- ★ Write a 2-variable linear inequality from a real world situation.
- ★ Graph an inequality.



Invitation

- ★ Invite students to go to the State Fair of Texas to investigate the food options, sample some, and take notes!

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STATE FAIR MAP



Plan Your Route

- ★ Begin inside Tower Building. This is the building with the giant golden eagle on the top of it! It's also the food court.
- ★ Then, check out the food vendors outside! They're all over the park.



Optional Materials to Bring

- ★ Pen or Pencil
- ★ Sketchbook
- ★ Notebook or Paper
- ★ Smartphone or Tablet



While You're There

The objective of your visit is to choose TWO foods that you would like to try. One of these will come from the Tower Building and the other will come from an outside concessionaire.

- ★ **FEAST YOUR EYES – TOWER BUILDING:** Investigate the food options.
 - o Look at all your choices. Select the food item that sounds best to you.
 - ☐ Write down the name of the food and how many coupons it costs.
 - ☐ Determine how much money each food costs in dollars.
- ★ **SAMPLE & SCRUTINIZE – CONCESSIONAIRES:** Leave the Tower Building and walk around the Fair, investigating the food as you go.
 - o Food concessions are everywhere, so make sure to walk to many areas.
 - ☐ Select the food item that sounds best to you.
 - ☐ Write down the name of the food and how many coupons it costs.
 - ☐ Determine how much money each food costs in dollars.



After the Fair – 50 min project

- When you return to class following your State Fair visit, you will determine how much each food item costs in dollars, and then write and graph inequalities for some scenarios:
- ★ Write an equation that shows how much you would spend depending on the number of times you purchased the food items.
 - o Use the variable c for total cost and n for number of times you purchased that food.
 - o You will have 2 equations: one equation for each food item.
 - ★ Write one equation that shows you purchased both items and had \$25 to spend on them.
 - o Use the variables x and y for the number of times you purchased the items.
 - ★ Write an inequality that shows you purchased both items and

had \$25 to spend on them. (The only difference between the equation and the inequality is the equal will be replaced with an inequality.)

- o Using the inequality, solve for y .
- o Graph this inequality.
- o Explain what your graph represents.



ART PORTION

Instead of putting your graph on a normal sheet of paper, spice it up!

- ★ Cut a large piece of drawing paper into the shape of the food that you enjoyed most at the Fair.
 - o Create your drawing first, and use a very light pencil as well as light colored pencils, using minimal pressure with the pencils to color.
 - o Create your graph on top of your image using a black sharpie, or other dark drawing utensil so that the viewer can easily discern the information.
- ★ What other ways can you incorporate visual representations of your information in your graph? Be creative, think outside the “box!”



ENGLISH PORTION

Competition for the Big Tex Choice Awards is fierce, and there are many new and different foods that compete for the award each year. Imagine that you are competing for a Big Tex Choice Award and are trying to convince the judges that your entry is either the best tasting or most creative.

- ★ Create a mini-documentary that captures the process of how you came up with your food entry, how the entry was changed and perfected to what is being served to customers, and why your food is deserving of a Big Tex Choice Award. Make sure to:

1. Write a script
2. Video the 5 minute presentation using your phone or computer
3. Edit your final product before presenting it to the class

