

Contain the Creatures!

A Geometric Analysis of the Livestock Barns



QUEST 3 GEOMETRY

STATE FAIR OF TEXAS CURRICULUM

STUDENT EDITION

Recap

You will be going to the State Fair of Texas to explore the Livestock Barns and measure them! While you're there, you'll see the Woofus sculpture (and of course enjoy whatever rides and food you want as well).

STATE FAIR MAP



Recall from your discussions in class:

- ★ The following terms, concepts, and formulas: area, perimeter, distance, and Pythagorean Theorem.
- ★ What is the relationship between the distance formula and the Pythagorean Theorem?
- ★ If you can't remember any of these things, stop by your Geometry teacher's classroom and ask.



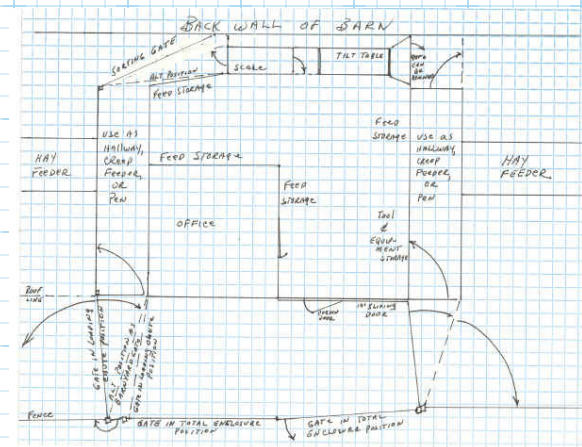
Plan Your Route

- ★ Begin your Quest by finding the Woofus sculpture.
- ★ After you have found the Woofus, explore the Livestock Barns nearby.



Optional Materials to Bring

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



Source: <http://www.bountifulfarm.com/pic/barncenter.jpg>

While You're There

You will use information you gather at the State Fair to help you with THREE project goals:

1. Find the complete dimensions of the two Livestock enclosures you measured today
2. Draw a piece of optical illusion art, based on those Livestock enclosures
3. Compose a short story from the perspective of a creature in an enclosure.

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The objective of your visit today is to measure two animal enclosures, and make some additional observations, so that you can use this information in your projects back at school.

★**CONTAIN THE CREATURES!:** After you have located the Woofus, enter one of the nearby buildings.

- o Choose an animal enclosure.

- ☐ Measure the length and width of the animal enclosure.
- ☐ Record the collected data and the building name.

- o Move to another building, and choose another animal enclosure.

- ☐ Make sure it is not the same size.
- ☐ Measure the length and width of this animal enclosure.
- ☐ Record the collected data and the building name.

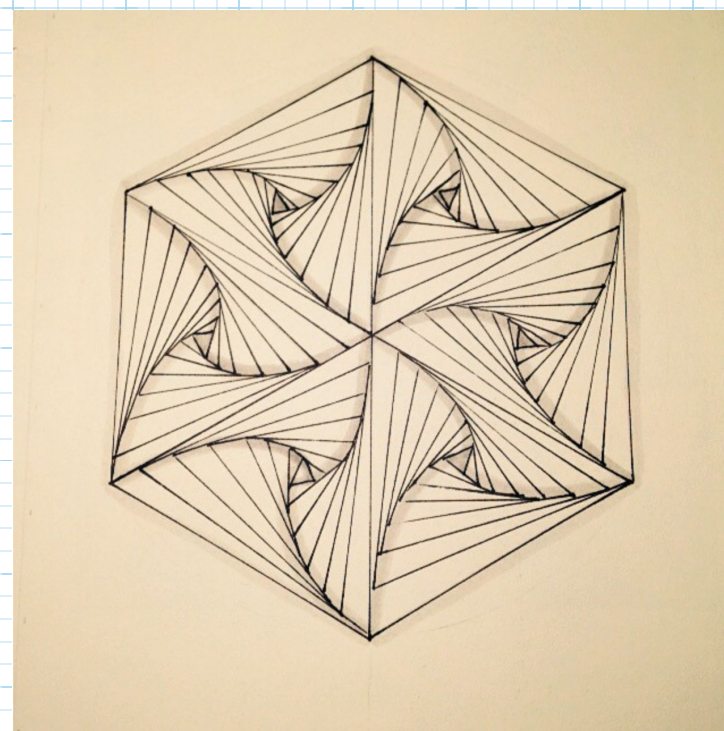
★**PERSPECTIVES (ENGLISH PORTION):** What if we lived in a world where humans were shown at the Fair and kept in the enclosures?

- o As you watch the animals, put yourselves in their hooves; watch them as they walk around the ring and are washed and cared for by their owners.

- o Jot down notes on:

- ☐ How the animals interact with their owners and other humans
- ☐ How they act in their enclosures
- ☐ How they act outside of their enclosures.

- o You'll use this info for an activity in class.



Source: https://scontent.cdninstagram.com/hphotos-xpfl/t51.2885-15/e15/11024417_1074986009185181_1505766310_n.jpg



Back at School

When you return to class following your State Fair visit, you will work on your three projects. See your teachers for more information.