

"Tex"onomy

Classifying the Fair

**CARS, CRAFTS
AND COMMERCE**

**QUEST 09
BIOLOGY**

**STATE FAIR OF TEXAS
CURRICULUM**

Prior to the early 1700s, there was no official way to classify the organisms in any environment. Being able to drill down from a kingdom all the way to genus and species, based on similarities and difference in organisms, helped scientists understand how some of them worked. Create your own classification system based on the taxonomy work of Linnaeus, but use the cool stuff from the Fair!



During this Cars, Crafts, & Commerce Quest, you will:

- ★ Explore how the Carl Linnaeus classification system works.
- ★ Investigate the huge variety of items up for sale at the car show and vendor area.
- ★ Apply the classification system in a unique way, by designing your own method to divide and classify the items for sale at the Fair.



Standards

- ★ Biology TEKS: 8A, 8B, 8C
- ★ Art TEKS: Art I: 1A, 2A, 3A
- ★ ELAR TEKS: EL(1)(C)
- ★ Career Development TEKS: 1A, 2E

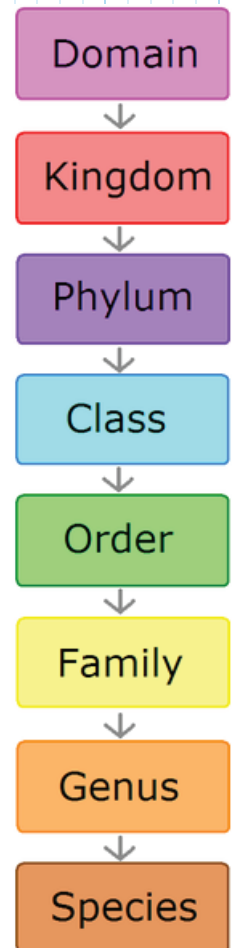
Before You Go

- ★ Introduce Carl Linnaeus' classification system. Use the five fingers on the hand to show 5 of the 6 Kingdoms (leaving out virus).
- ★ Practice breaking down different organisms by phylum, class, order, family, genus, and species. Look closely at the differences and similarities within the classifications that enable them to be classified in that way.



Invitation

- ★ Invite students to bring the listed materials and follow the route, and perform the tasks below at the State Fair of Texas:



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STATE FAIR MAP



While You're There

The objective of your visit is to make note of all the different items the vendors are selling in the vendor buildings and car show.

- ★ **A NEW KINGDOM:** note all of the items for sale at the Fair and decide what broad categories you can use for kingdoms.
 - o Go browsing through the Craft Pavilion, and take notes and pictures of what you see that might be for sale.
 - o Take a walk through the GO TEXAN Pavilion, and the Coliseum Marketplace. Photograph or take notes about what items are for sale.
 - o Do the same in the Auto Show and Truck Show areas. Note what makes and models are out there and what features each one comes with.
 - o As you walk around the Fairgrounds, there are many places to shop. Stop in and check out the different items for sale. Write them down or take pictures.



Plan Your Route

- ★ Make your way to the Craft Pavilion
- ★ Next, go to the Coliseum Marketplace and GO Texan Pavilion
- ★ To find other shopping areas, walk around the Fairgrounds
- ★ Finally, see the Auto Show and Truck Show



After the Fair

- When you return to class following your State Fair visit, you will organize the items you identified at the State Fair according to your own classification system.
- ★ Start with the broadest classification (kingdom), and decide how you will define each kingdom.
 - o Some suggestions for classification: tax/non-tax items, cars/everything else, moving/non-moving...what other creative ways can you use?
 - o Remember this is going to be the broadest classification.
 - ★ As you create your chart, keep in mind the importance of color and line quality in your images.
 - o Make this artistic! Google "Linnaeus classification" in Google Images to see some great examples of artistic classification systems.
 - ★ Drill down all the way to family, classifying items for sale as you go.
 - ★ Trade classification charts with a classmate and try to figure out why they assigned items as they did.
 - o Find any flaws in reasoning and discuss.



Optional Materials to Bring

- ★ Writing utensil and something to write on
- OR
- ★ A way to digitally take notes

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ENGLISH PORTION

It's time to get creative with your vocabulary!

- ★ After you have your classification system established, it is time to name each level in your system.
 - For example, if your kingdom is defined by cars/ everything else then your kingdom name could be "nothingbutcarsallowed" or "carsornothing".
 - Be as creative, descriptive, and imaginative as you can be and have fun naming your classification system.

