



PLTW Virtual Learning

7th and 8th Grade Design and Modeling

April 13, 2020



Lesson: Zoo Animal Enclosure Design Challenge Day 1

Objective/Learning Target:

Students will will design, model, and present a zoo enclosure for an animal of their choice.

Warm-Up:



Have you ever been to a Zoo?

What was your favorite animal to see?

What made this animal so memorable?

What do you remember about the enclosure the animal lived in at the zoo?

Lesson Introduction/Background Information:

This week you have a design challenge. Let's get started with your design brief.

Designer: You

Client: The Kansas City Zoo

Design Statement: You will design, model, and present a zoo enclosure for an animal of your choice.

Deliverables: Research for Zoo and animal, Brainstorm sketch of animal enclosure, 3D model of animal enclosure, Presentation over project

Practice:

Today you will start by researching your client. It is important to understand who you are designing for and if there are any constraints that you might have. Visit the websites and answer the questions on the next slide. Write them on a piece of paper so you have them to look back at throughout the week.

[About the Kansas City Zoo](#)
[Kansas City Zoo Map](#)
[Kansas City Zoo Animal Cams](#)



Practice:

1. What is the mission of the Zoo?
2. List what happened in 1909, 1948, and 2008 in Zoo history.
3. What special activities do the Zoo offer to visitors?
4. What do you notice about the layout of the Zoo when looking at the map?
5. Watch a couple of the animal cams to get an idea of what a zoo animal enclosure might look like.

Self-Assessment:

Fill in the following 3-2-1 Organizer.

3 Facts I learned about the Zoo

2 Facts that will help me design my animal enclosure

1 Fact I still need to learn about the Zoo

Extend Your Learning/Continued Practice:

If you would like to explore other Zoos, here are some links to check out:

[Omaha Zoo](#)

[St.Louis Zoo](#)

[San Diego Zoo](#)

[Cincinnati Zoo](#)