



PLTW Virtual Learning

7th and 8th Grade Design and Modeling

April 14, 2020



Lesson: Zoo Animal Enclosure Design Challenge Day 2

Objective/Learning Target:

Students will research the habitat, food and exercise needs of a zoo animal to provide an optimal enclosure.

Warm-Ups:

What animal are you going to design a zoo enclosure for?

Quickwrite:

Write down everything you know about this animal.



Lesson Introduction/Background Information:

Now that you have picked your animal, it is time to become an expert on the needs of this animal. Use the links provided to research your animal.

Answer all of the questions about your animal on the same paper you used yesterday to research the Zoo. If you find any more information about your animal that will help in designing a home for it, add it to your notes.

Sources:

[San Diego Zoo Animal Facts](#)

[San Diego Zoo Kids Animal Facts](#)

[National Geographic Animal Facts](#)

[Smithsonian Zoo Animal Facts](#)

Practice:

1. What climate/temperature does your animal live in?
2. What does their habitat look like?
3. How much space does your animal require to live in?
4. How big is your animal?
5. Does your animal live alone or in groups? How big of a group?
6. Does your animal live close to other animals?
7. Does your animal have to be aware of any predators?
8. What does your animal eat?
9. What type of activities does your animal do? (run, climb, etc.)

Self-Assessment:

Fill in the following 3-2-1 Organizer.

3 Facts I learned about my animal today

2 Facts that will help me design my animal enclosure

1 Fact I still need to learn about my animal

Extend Your Learning/Continued Practice:

Watch these Zoo Cams to get an idea of how animals behave in a zoo and what their habitats look like.

[Smithsonian Zoo Animal Cams](#)

[San Diego Zoo Animal Cams](#)

[Reid Park Animal Cams](#)