



DR. CHERYL
PETERSON

ZOOLAND PROJECT

2022-23

PREPARED BY:
CHERYL PETERSON, PH.D>



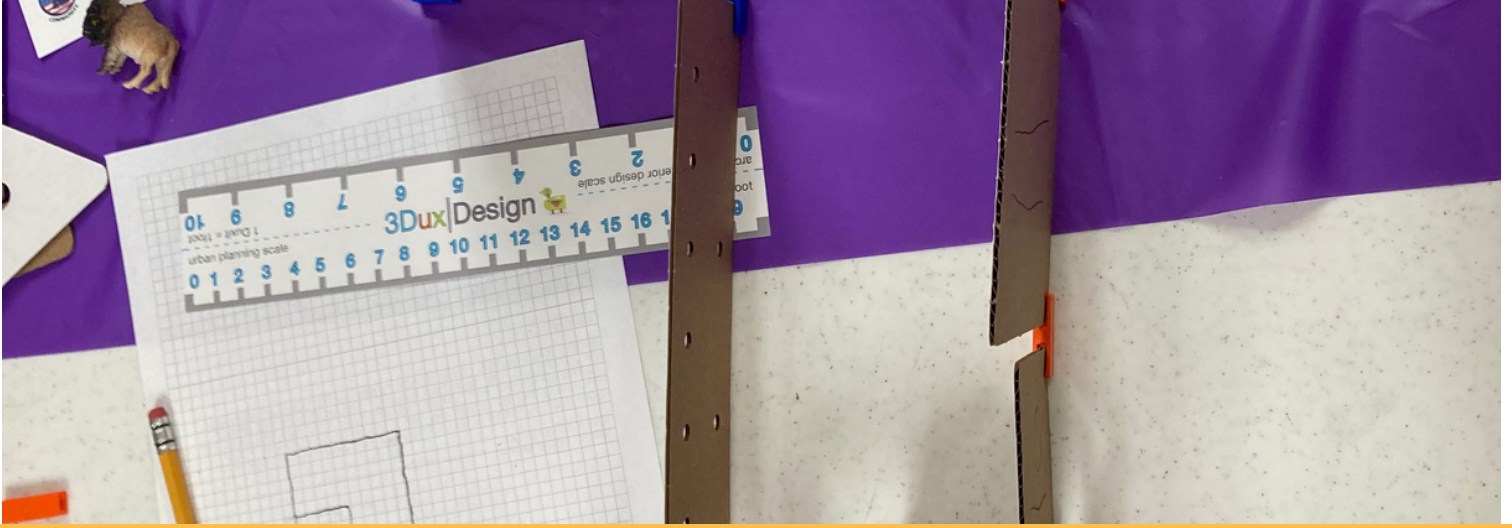
MEMO

TO: ZOOKEEPERS IN TRAINING

FR: ZOOLAND COMMITTEE

We are in urgent need of your help. It has come to our attention that several of our zoos are in desperate need of help. We are seeking creative solutions from some of our best future zookeepers. Here is what we need you to do:

- Select one of our animals that needs a home.
- Design a safe habitat for your animal. It must be big enough for your animal to move, sleep and eat.
- Your habitat must be able to be completely taken apart and rebuilt easily. We may have to relocate these habitats several times until our final zoo space is ready.
- Make a model of the habitat enclosure you have designed using the materials we have provided. Do not add any decor or extra features at this time. Once we approve your model you will be given addition specifications depending on which zoo accepts your proposal.
- Draw a picture of your habitat design and keep all the pieces in the secure bag we have provided. If you have time you may want to make a detailed list of the pieces you used in case any get lost.



TASK 1 - DESIGNING A HABITAT

We are so glad you have agreed to help us. We are so impressed with your work so far. We have decided to invest in you. Each of you will have a zoo bank account. We will pay you for successfully completing your training projects. For your first training project, we need an accurate plan of your habitat. The head zookeeper will show you how to measure and draw your habitat so we can be sure to get enough land for our zoo. If you complete your training, you will get \$100 for your zoo bank account. You will be able to use your account to make extra purchases for your habitat and to spend on opening day for some special zoo treats. Here are the specific tasks you must complete today:

1. Quickly set up your zoo habitat using the materials you saved in your bag.
2. Listen carefully as the head zookeeper shows you how to measure and create a scale drawing of your habitat.
3. Disassemble your habitat and put all your materials including the scale drawing and animal back in the bag neatly. Close the bag and put it in the storage container.
4. Our zoo inspectors will be on-site today looking for some exceptional zookeepers in training. They will be awarding bonuses to zookeepers who are kind, helpful and respectful.

RECORD KEEPING:

ZOO KEEPER IN TRAINING

NAME: _____

ANIMAL: _____

DRAWING ON BACK:

1 SQUARE = 1 DUXIT

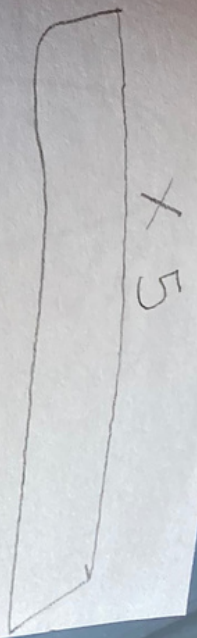
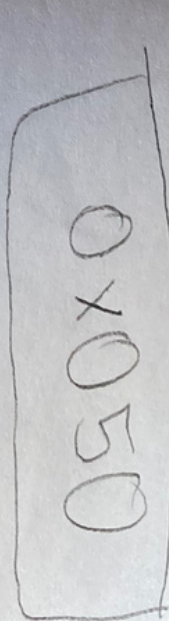
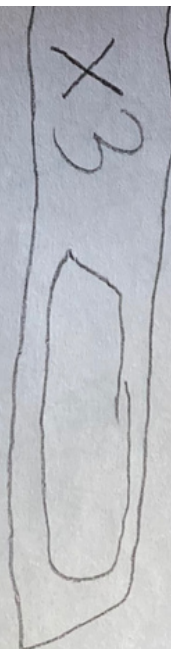
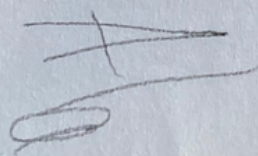
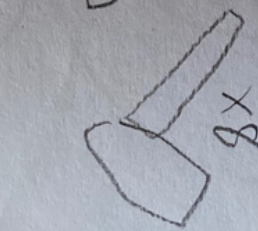
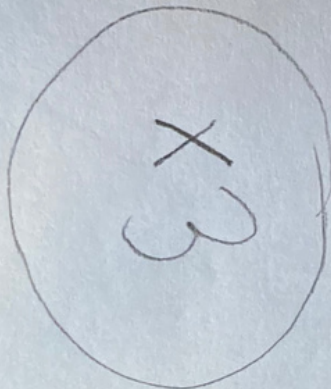
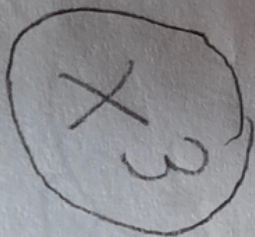
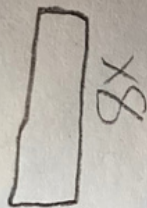
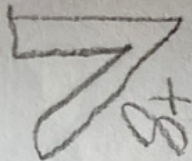
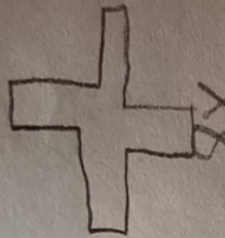
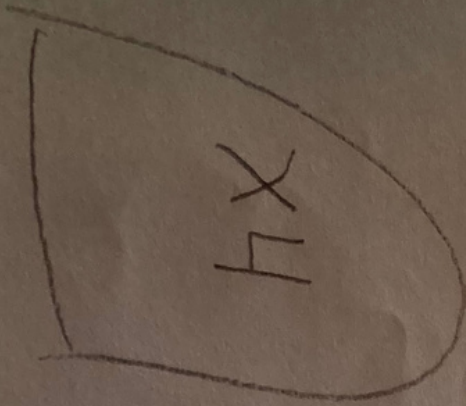
MEASUREMENTS:

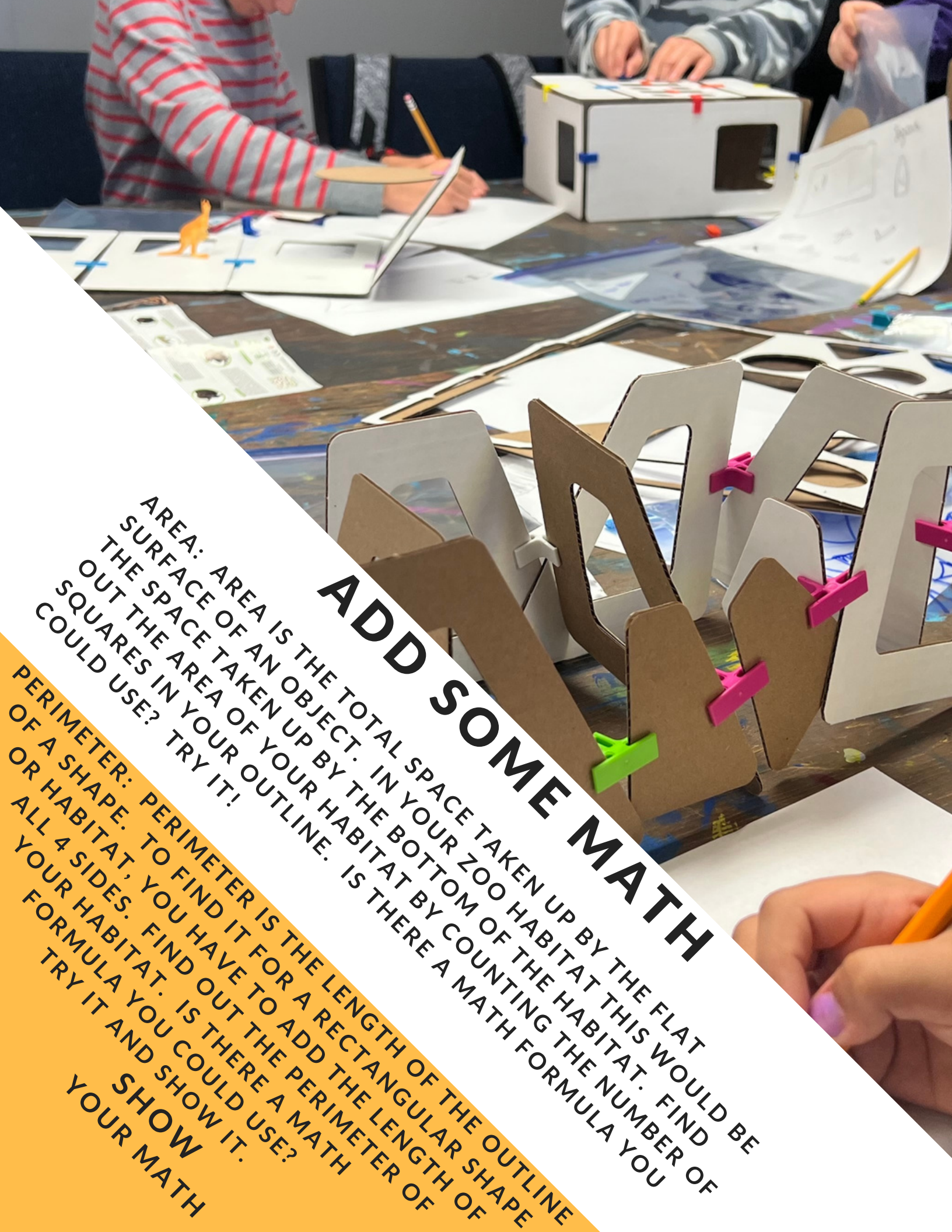
SIDE 1: _____ DUXITS

SIDE 2: _____ DUXITS

SIDE 3: _____ DUXITS

SIDE 4: _____ DUXITS





ADD SOME MATH

AREA: AREA IS THE TOTAL SPACE TAKEN UP BY THE FLAT SURFACE OF AN OBJECT. IN YOUR ZOO HABITAT THIS WOULD BE THE SPACE TAKEN UP BY THE BOTTOM OF THE HABITAT. FIND OUT THE AREA OF YOUR HABITAT BY COUNTING THE NUMBER OF SQUARES IN YOUR OUTLINE. IS THERE A MATH FORMULA YOU COULD USE? TRY IT!

PERIMETER: PERIMETER IS THE LENGTH OF THE OUTLINE OF A SHAPE. TO FIND IT FOR A RECTANGULAR SHAPE OR HABITAT, YOU HAVE TO ADD THE LENGTH OF ALL 4 SIDES. FIND OUT THE PERIMETER OF YOUR HABITAT. IS THERE A MATH FORMULA YOU COULD USE? TRY IT AND SHOW IT.

SHOW YOUR MATH

A collage of three photographs showing children engaged in a hands-on activity. The top-left photo shows a child's hands working on a cardboard box with a circular cutout. The top-right photo shows a child using a pencil to mark a cardboard piece. The bottom photo is a larger image showing a child from behind, looking at a completed cardboard habitat on a table. The habitat is a white box with various cutouts and is surrounded by other materials like cardboard, scissors, and a calculator. The background is a solid orange color.

TASK 2 ADDING DECOR

QUESTIONS TO CONSIDER

HOW DO WE IMPROVE OUR ZOOLAND DISPLAYS?

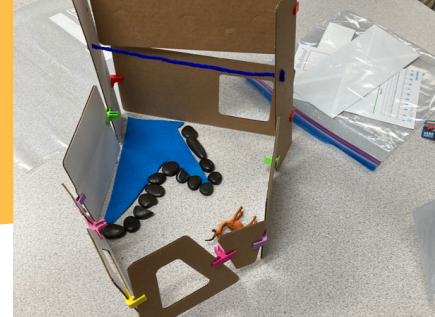
Congratulations on successfully completing the measurement training. We are so impressed by your skills. We are looking forward to seeing how you do on this next challenge.

Here are the specific tasks you must complete today:

1. Quickly set up your zoo habitat using the materials you saved in your bag.
2. Use a pencil and mark where your clips go by tracing them on the cardboard.
3. Draw a design idea for how you will decorate your zoo habitat. Be sure to include:
 - a. A place for your animal to get food and water
 - b. Things to keep your animal active
 - c. A background and features that your animal would have in the wild.
4. Show your design to the head zookeeper or zoo inspector and get your stamp of approval. Then you can start decorating. Remember you must be able to disassemble your zoo habitat.
5. Disassemble your habitat and put all your materials including the scale drawing and animal back in the bag neatly. Close the bag and put it in the storage container.

TASK 3

WORKING WITH A BUDGET



We are so proud of the work you have done constructing habitats for your animals. Your decoration plans are amazing. We must remind you that we have limited funds for the zoo habitats. You will need to use your zoo dollars or find other sources for materials to add to your habitat. We have some suppliers who will be on site today with materials to purchase. You must write up a purchase order before picking up your supplies. The head zoo keeper will provide training on this and you will receive \$50 for the training if you are attentive and cooperative.

Here are some guidelines for your work today:

1. Quickly set up your zoo habitat using the materials you saved in your bag.
2. Mark on the sheet any materials you would like to purchase for your zoo habitat.

Remember your habitat must include:

- a. A feeding area for your animal where they can get food and water.
 - b. Interactive materials appropriate for your animal.
 - c. A background and features that your animal would have in the wild.
 - d. Ability to disassemble your zoo habitat.
3. Bring your sheet to the supply station to get your materials.
 4. Disassemble your habitat and put all your materials including the scale drawing and animal back in the bag neatly. Close the bag and put it in the storage container.

ITEM	COST	#	TOTAL COST
LOGS(toilet paper roll)	\$20		
VINES(pipe cleaners)	\$20		
BAMBOO(straws)	\$20		
ROCKS(beads/rocks)	\$20		
LEAVES/WATER(colored paper)	\$10		
FABRIC(fabric sheets)	\$10		
Additional support pieces (clips, cardboard)	5 for \$25		
Total Cost			



TASK 4

SNEAK PEAK



AREAS FOR IMPROVEMENT:

HOW AND WHERE CAN IMPROVE OUR ZOO DESIGN

Dear Zookeepers in Training,

The excitement is mounting. We are hosting our first zoo showcase next week. The community will be visiting to get a sneak peek at our zoo and the progress we have made so far. This is the time to make sure your zoo habitat is exactly how you want it. Make sure it has everything your animal needs and is attractive to zoo visitors.

Along with our zoo visitors next week, we have heard there are some investors who are willing to invest in our zoo habitats and in some of the extra features you are interested in adding to the zoo.

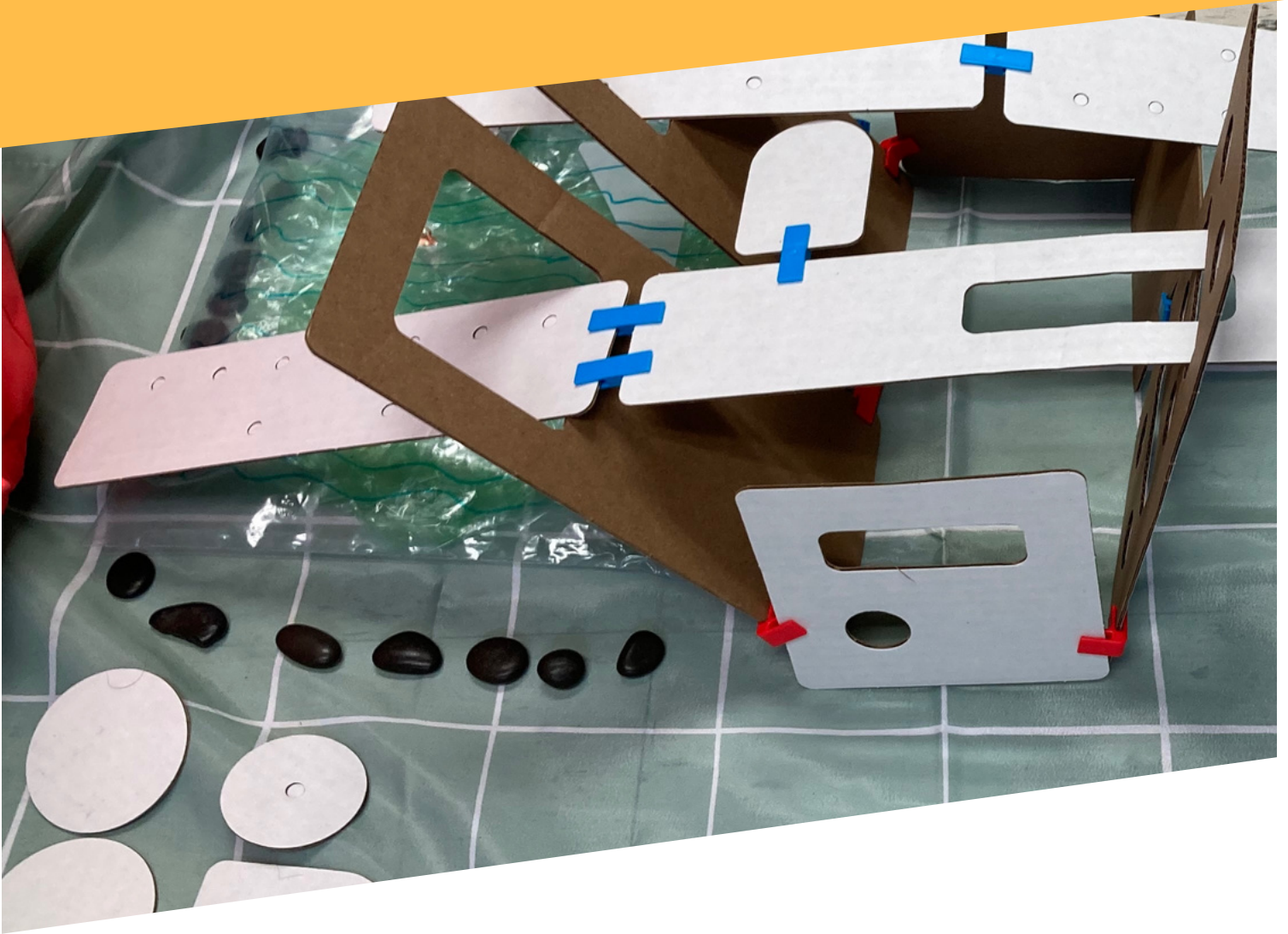
For your work today, you will create a brochure to encourage investors to donate money to our zoo. Here's what you should be sure to include in your brochure.

1. A feature or items you wish to add to the zoo. For example, you may want to add more to your habitat, or you may want to create a sculpture, snack shed, or shop.
2. Tell how much your added feature will cost. Use the pricelist sheet to help determine the cost.
3. Draw a picture of your amazing idea.

Once you have completed your brochure, you can set up your habitat and make sure it is ready for the showcase. Remember it doesn't need to be perfect, we are just giving visitors a sneak peek at our zoo. If you think your zoo habitat is ready to go, you can work on creating signs and invitations to welcome guests.

COME ONE...COME ALL
ZOO LAND SNEAK PEAK

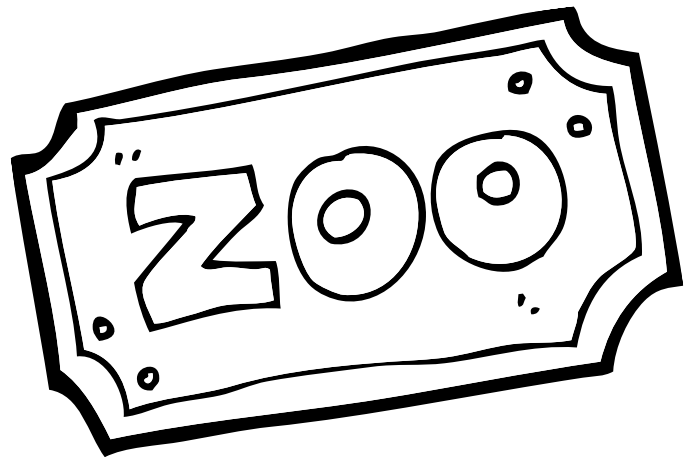
WHAT TO EXPECT FOR THE ZOO SHOWCASE



DEAR ZOOKEEPER IN TRAINING:

WE ARE EXCITED TO ANNOUNCE THAT WE HAVE GOTTEN FULL APPROVAL TO OPEN ZOOLAND. WE ARE INVITING ALL ZOOKEEPERS IN TRAINING TO SET UP AN EXHIBIT IN THE NEW ZOO. HERE'S WHAT YOU NEED TO DO:

- SET UP YOUR ZOO EXHIBIT. - YOU MUST BE ABLE TO SET UP YOUR ZOO EXHIBIT IN 5 MINUTES OR LESS.
- ASK THE HEAD ZOOKEEPER TO TAKE A PICTURE OF YOUR EXHIBIT.
- COMPLETE THE APPLICATION.



ZOO EXHIBIT APPLICATION

Zookeeper in Training Name: _____

Exhibit Name: _____

Describe the purpose of your exhibit. For animal exhibits list the kind of animal.

Space Requirements:

1. What is the length of your exhibit in Duxits? _____
2. What is the width of your exhibit in Duxits? _____

Placement Requirements:

1. How many squares do you need on the zoo grid? _____
2. Color the squares in the shape you need for your exhibit.

Materials Requirement:

Record the number of each thing in the table.

cardboard pieces	clips	extra material	animal	other

Design Layout: Draw your exhibit as if you were looking at it from above. Make sure it matches your measurements.

A blank 15x15 grid of squares, consisting of 15 columns and 15 rows, totaling 225 squares. The grid is composed of thin black lines on a white background.

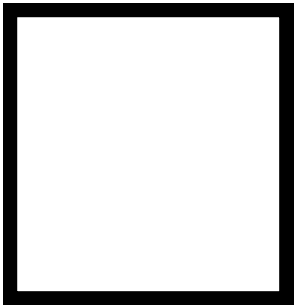
Building Instructions: Draw pictures or list directions for building your exhibit. Make them clear enough so someone else could build your exhibit.

Inspiration: Add any information about details you would like to add to your exhibit and materials you might need to purchase.

Additions	Materials Needed

Lighting: If you are interested in adding lighting to your zoo exhibit, draw your ideas for how you would use 1-3 lights.

Head Zookeeper Stamp of Approval:



WHO IS DR. CHERYL PETERSON?

MEET THE HEAD ZOOKEEPER!



Check out this introductory video:

https://youtu.be/_Aq7TWArrQ4

Measurement Training Video from Task 1

<https://youtu.be/ow6HUzj-fa4>