

Let's Share!

ADU Floor Plans (10 Minutes)



Architectural Models

~~Look & Feel (Mood Board)~~

Program

~~Spatial Organization (Bubble Diagram)~~

~~Design & Create Drawings~~

~~(Floor Plans & Elevations)~~

Physical Model

Architectural MODELS

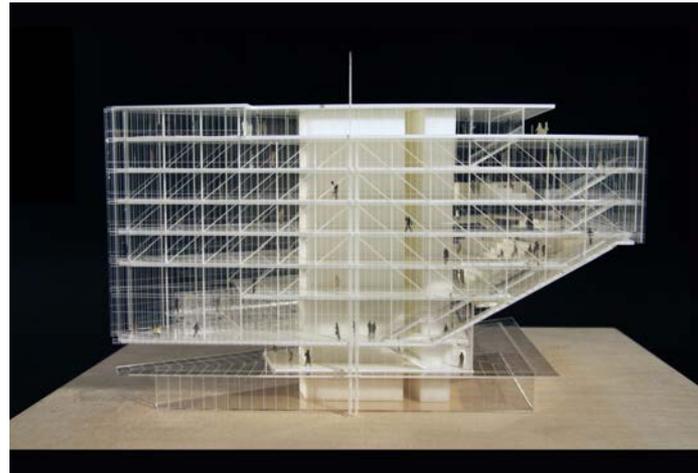


+ They are used in the design process to work through different ideas

+ Models are usually a simplification of the building design

+ Don't need to show everything!

+ Models communicate our design ideas in 3 dimensions





Architectural MODELS

- + They are made to **scale!**
- + Architects can model both building and furniture

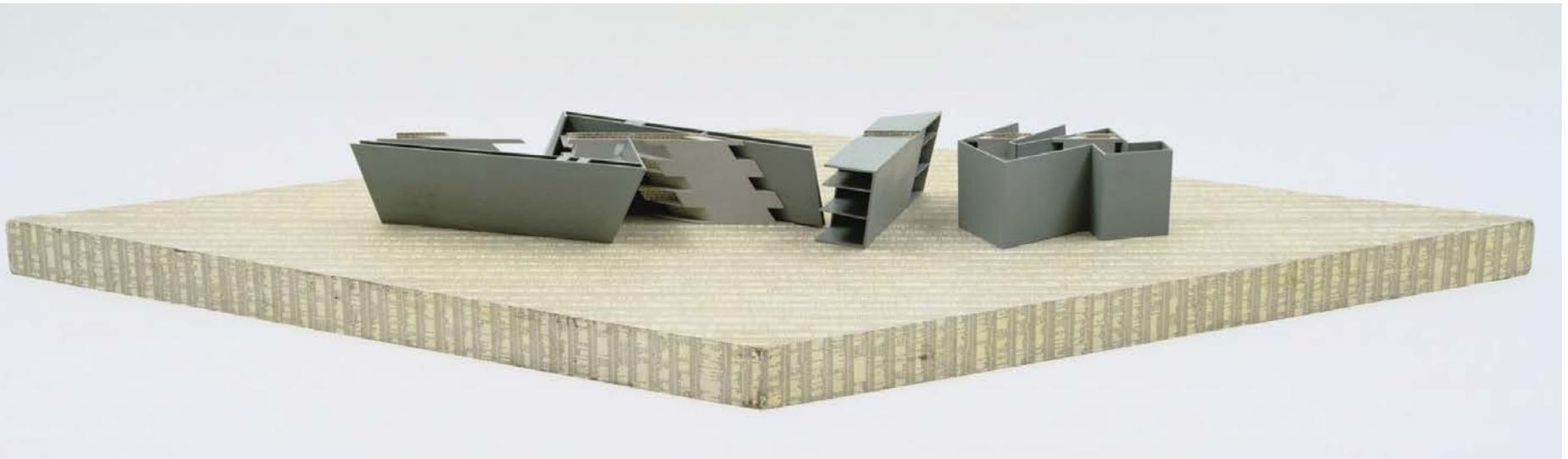
Rem Koolhaas

CCTV Headquarters

Concept Models + 3d Printed Final Model



Daniel Libeskind
Berlin + Jewish Museum
Wood + Paper



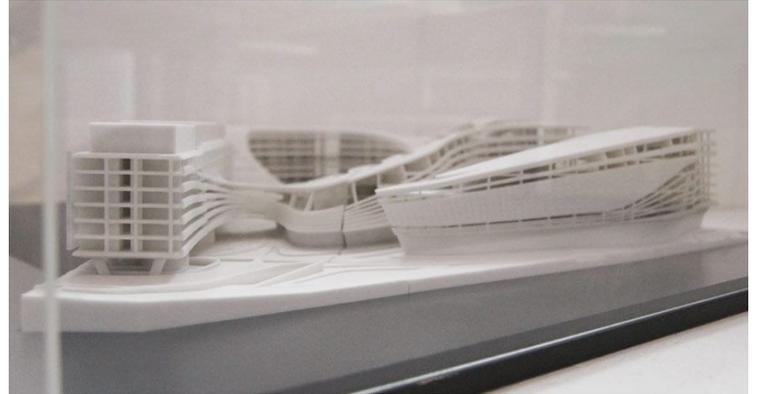
Louis Kahn

The Salk Institute for Biological Studies
Wood + Chipboard + Scale Trees



Zaha Hadid

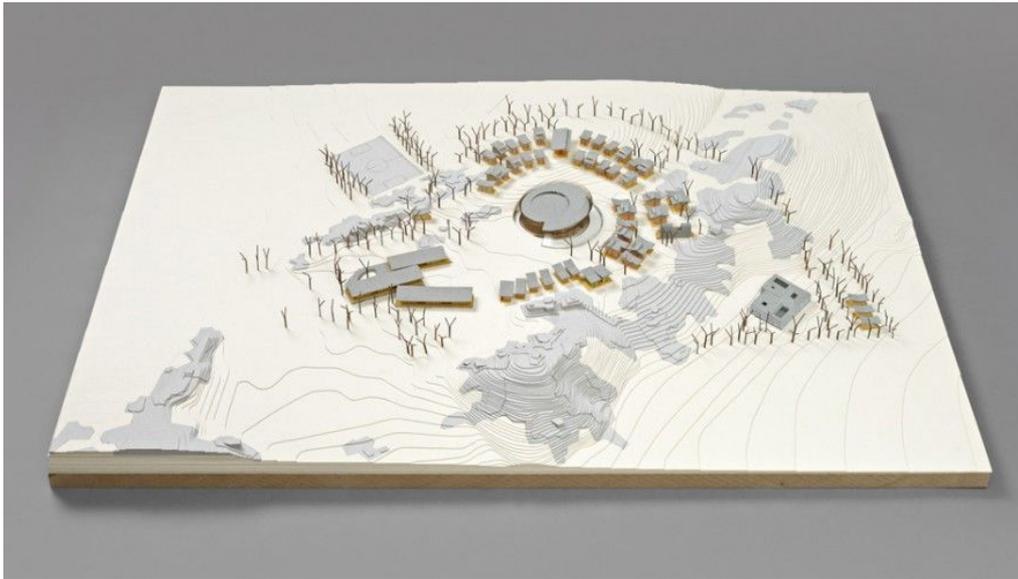
Beko Masterplan
Museum Board



Francis Kere

Opera Village

Wood + Chipboard



Kazuyo Sejima

Grace Farms

Paper + Wood Sticks + Plastic Trees



What are some similarities in the models we just looked at?

-

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What are some similarities in the models we just looked at?

- Base - something for the model to sit on
- Explores how building sits on the ground
- Show openings (windows)
- Includes landscape elements if important to the project
- Idea of structure (what keeps the building up)

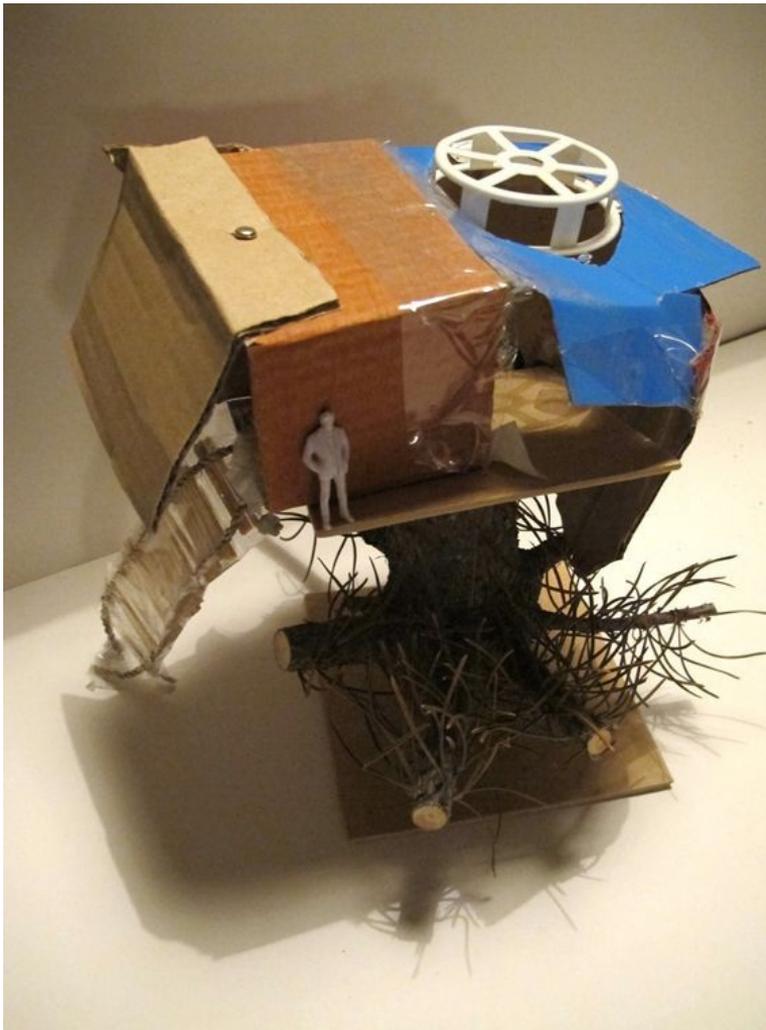


MAKING MODELS

- + Models take our 2-dimensional ideas into 3-dimensions
- + Models represent the form (shape) of the building to communicate to others how the project will look
- + When making models it is important to think about
 - How do my walls touch the roof?
 - Where are the windows and doors?
 - What are the materials?
 - What is the scale (how big?)

MODEL MATERIALS

- + Cardboard
- + Natural materials
- + Paper/cardstock
- + Tape/glue
- + Straws/popsicle sticks
- + Paint/markers... add color!
- + What materials can you find?



Making Models Out of Paper + Glue Stick

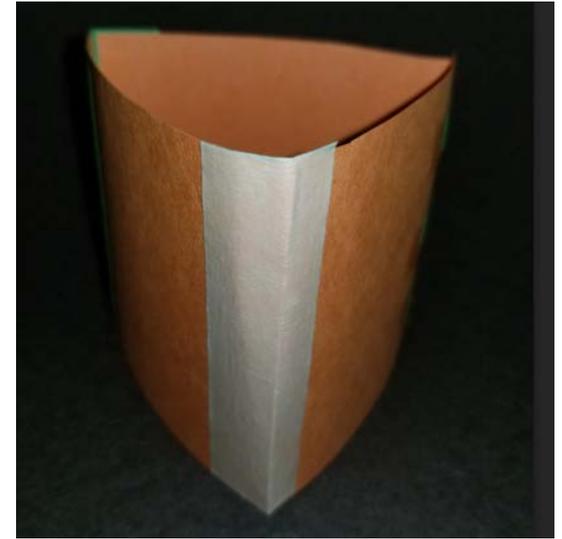
Using **Tabs** to Attach your Walls Together - if the tabs are on the outside we see them!



A series of mini tabs for texture

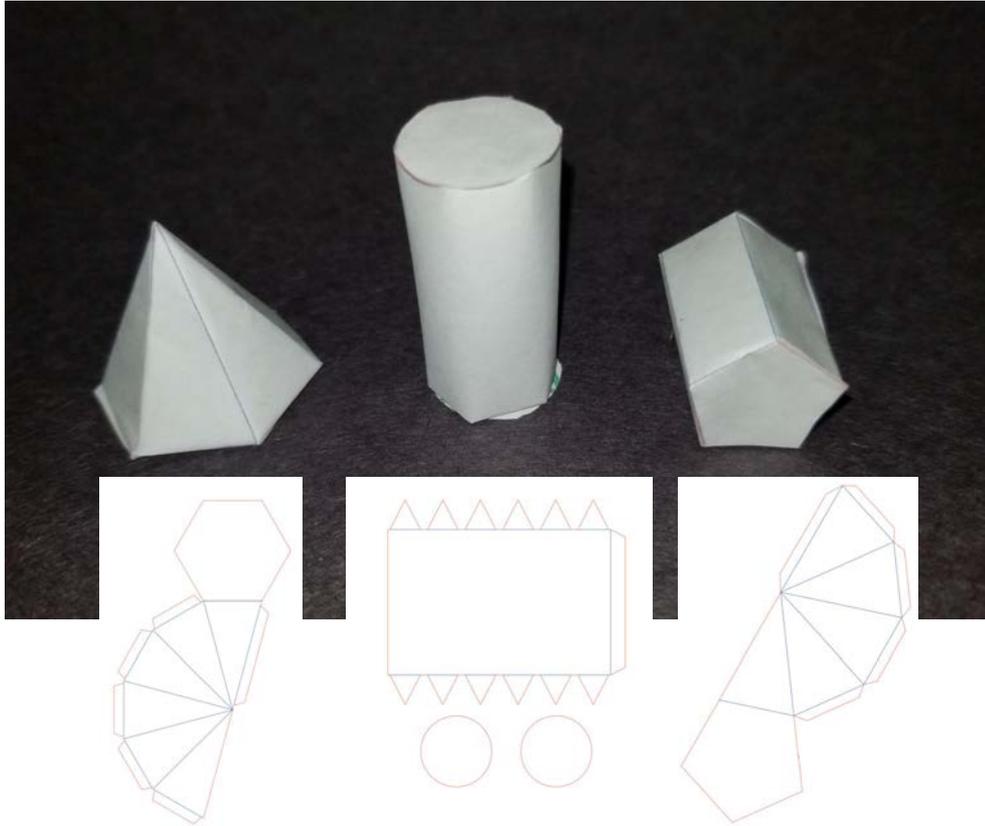


One Big Tab

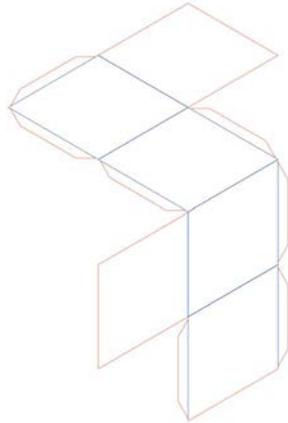
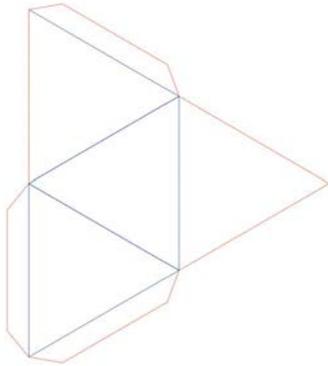
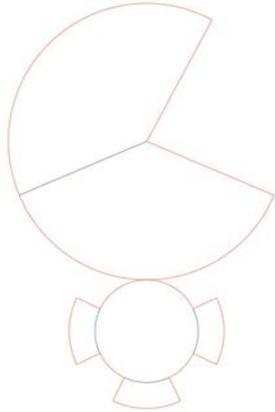
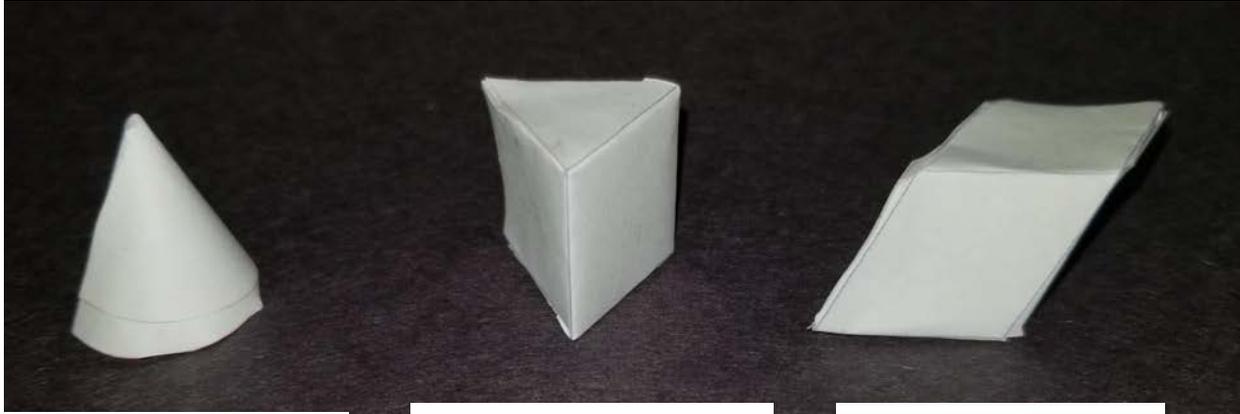


Tape (if you have it)

"Nets" are folded shapes with tabs already attached



. The more complex the net, the more complex the shape!

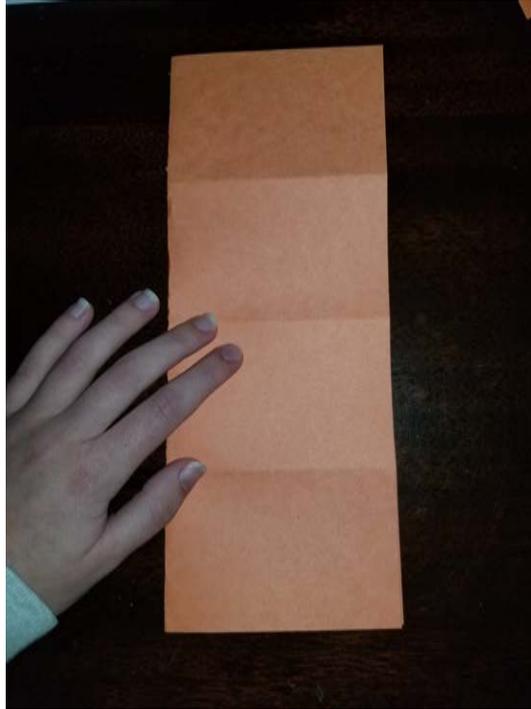


In Class
Activity!

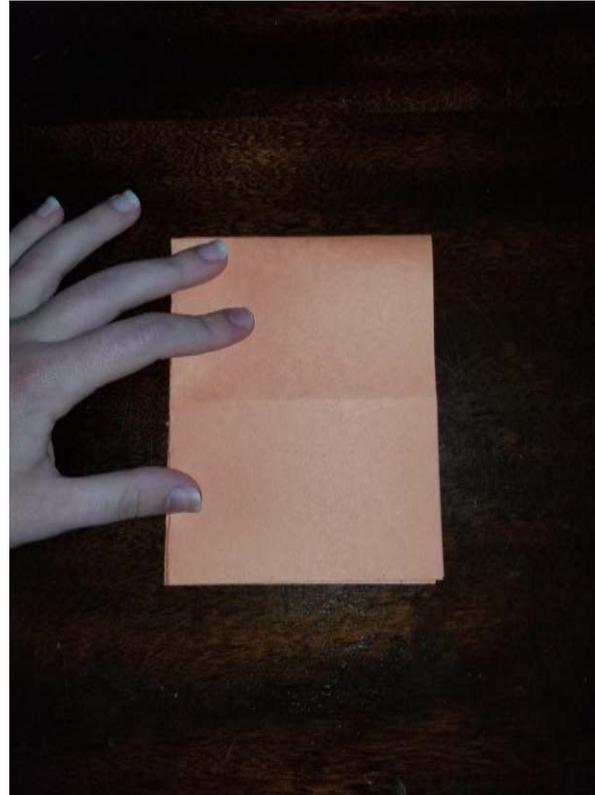
Practicing Model Making Skills!

***You will need a sheet of paper, glue stick,
and scissors. Follow along with the
architects to create 3D shapes!***

1. Fold your sheet of paper hotdog style



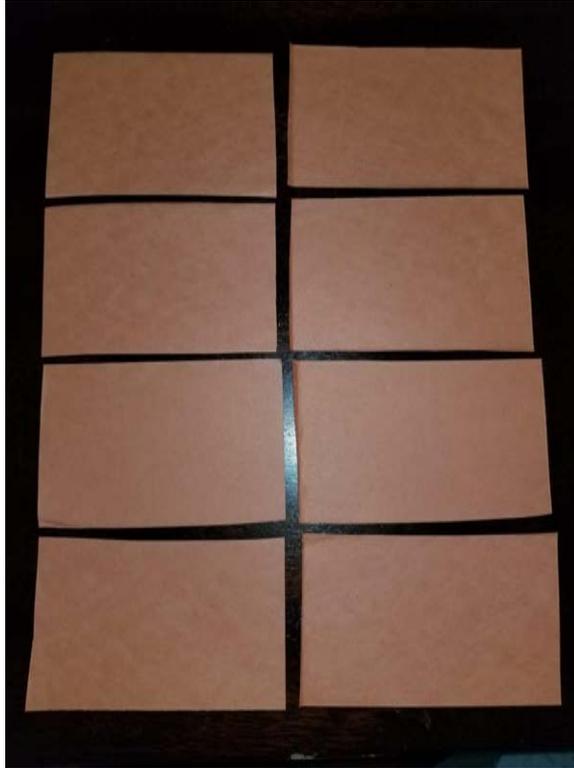
2. Keep your hotodog fold and make a new fold short-side to short side.



3. Unfold the fold you just made and fold in the edges to the line you just made



4. Unfold all of your folds and cut along all of the lines you just made



5. Take 3 of your cut pieces and fold them in half hamburger style



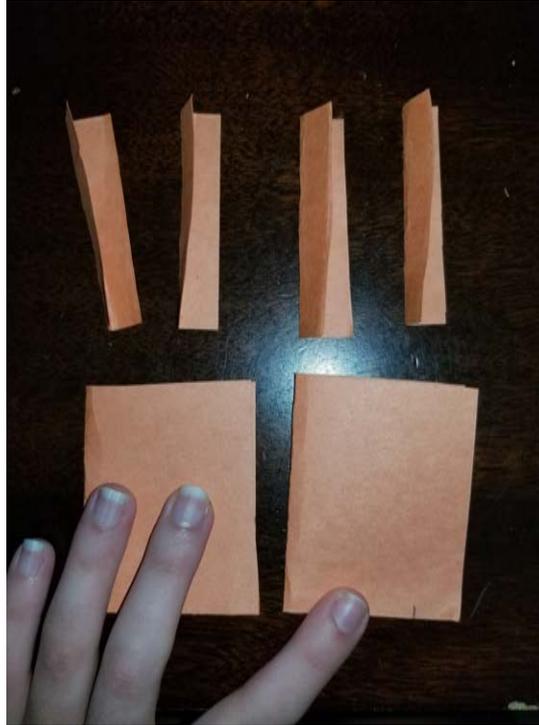
6. Take one of these folded sections and fold in half again!



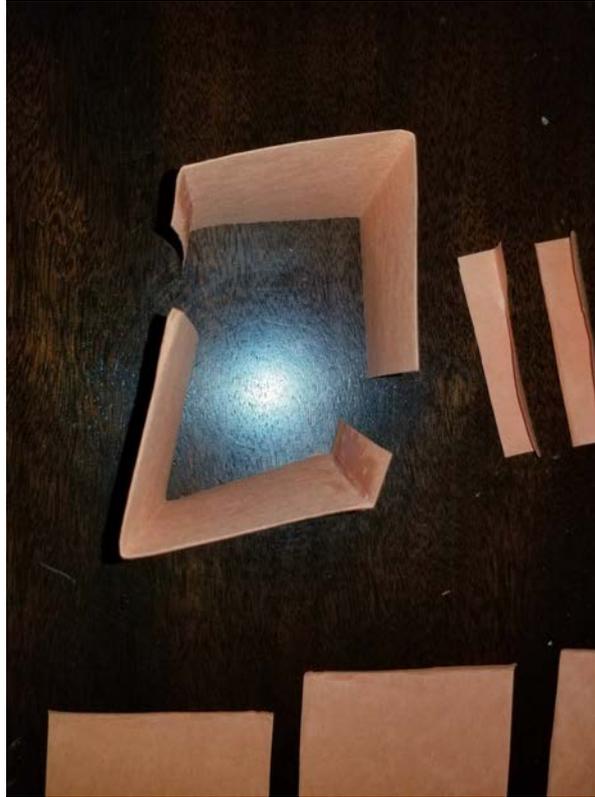
7. Unfold the piece you folded twice and cut along the lines you created - these will be the tabs



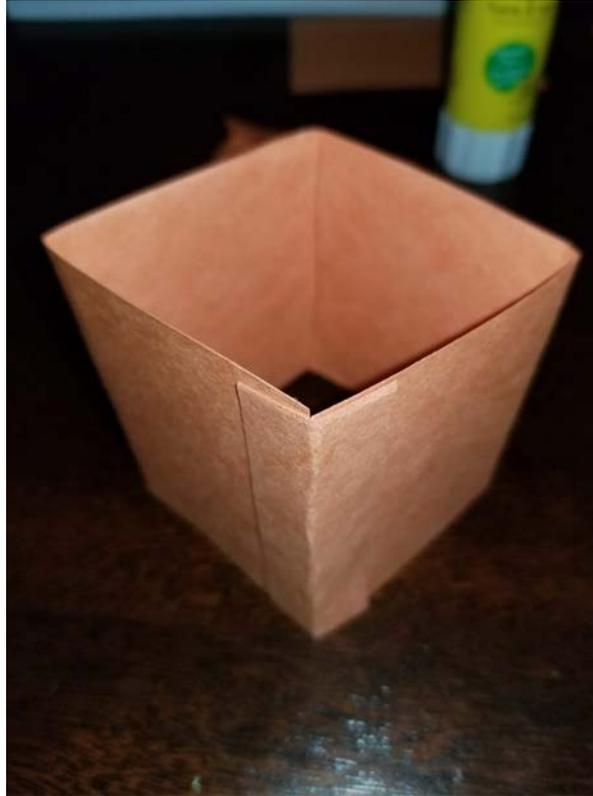
8. Fold each tab in half hotdog style



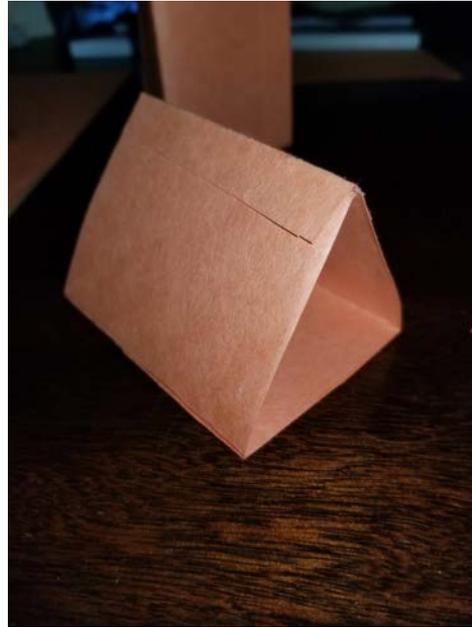
9. Glue one tab on each of your larger folded sections



10. Attach these tabbed pieces to each other to create a four-sided enclosed space



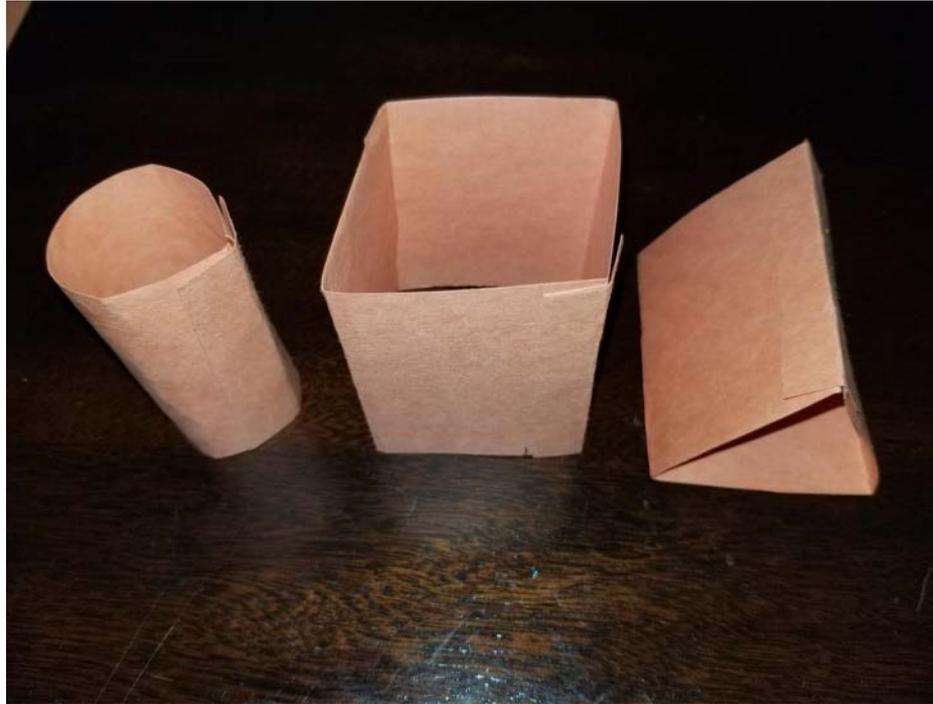
11. Repeat these steps with 2 folded pieces + 1 tab to create a 3 sided enclosed space (you will glue 1 tab to 2 sides and 2 sides to each other)



12. Repeat these steps with 1 section and the remaining tab to create a cylinder



13. If you still have time trace the shapes and add tabs to create a "floor" and "roof" for the shapes



Activity!

Build A Physical Model of Your ADU

Using the plans and outside views of your ADU that you have drawn, build a paper model of your project. Next week will be a work session for your model so don't worry if it isn't done by our next meeting!

Materials

- ***Paper***
- ***Glue***
- ***Scissors (remember to be careful!)***
- ***Colored pencils, markers, crayons, etc. if you like***