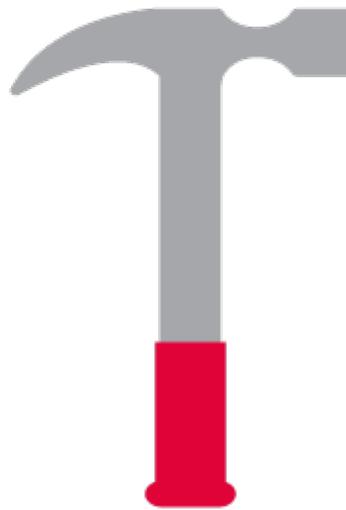
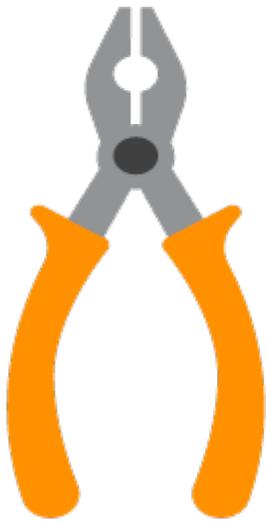


SCNL PRESENTS

MAKING AT HOME




SkillsCanada
Newfoundland and Labrador

SKILLED FUTURES


SkillsCanada
Alberta

WORKBOOK

Skilled Futures: Making at Home – Architecture & Design

“Architecture is the triumph of human imagination over materials, methods, and men, to put man into possession of his own Earth. It is at least the geometric pattern of things, of life, of the human and social world. It is at best that magic framework of reality that we sometimes touch upon when we use the word order.”

- Frank Lloyd Wright

The Architecture field has so many different aspects of design and technology mixed into one key element; the science or art of building and designing a structure. This structure can be in the form of a building, a home or even a monument. Everything around you in a small town or a large city had been designed for the most part by an architect. Keep the trade in mind as you create your own design for this challenge.

Design Challenge

Imagine that you and your best friend lived next door to one another. One day, your parents/guardians decided to combine your two homes, keeping both structures the same. How would you connect the two homes? A skywalk? An underground tunnel? What skilled trades workers would you need to complete this project? What design challenges do you think would need to be resolved? How would the joined houses be made functional?

Design a blueprint for your design keeping in mind a prototype will be created as well. What would the architecture look like? How would you design it using things from your home? How many rooms would it have? How big would the living room be? Where would everyone’s stuff fit? Create a unique space and design the two homes using things you can find around your home. Be creative!

Building & Turning Your Sketches into reality - Turn your ideas into a real-life prototype!

Gather simple materials and start building a masterpiece! Below is a list of some simple materials you might find laying around your house. Safety is #1 so ask an adult for help when using sharp or hot tools!

Cardboard	Glue Gun	Straws	Scrap Fabric &
Cereal Boxes	Glue Stick	Skewers	Notions
Styrofoam	Scissors or Utility	Toothpicks	Computer Designs
Tin Foil or Saran	Knife	Popsicle Sticks	Paint
Wrap	Markers	Pipe cleaners	Craft Supplies
Garbage Bag	Ruler or Measuring	String	Pompoms
Small Pieces of Wood	Tape	Zip Ties	Paper towel rolls
Bottles or Cans	Playdough or Clay		Anything You Can
	Tape (Variety)		Find!





Problem Scenario

Here are some guidelines to keep in mind before you start:

- You must include a sketch of your design in your final project.
- You can use things you find around your home to create the structure.
- Keep in mind which skilled trades workers you will need to “hire” for this project. What will you ask them to do to make this design successful?
- Is your design functional? If not, what else will you need to add?

Success Determinacies

Success will be determined by the degree to which your design solution:

- Addresses the design challenge.
- Addresses an identifiable need for the end-user.
- Uses many materials, resources, and tools.
- Is accompanied by a highly elaborate sketch illustrating functionality.
- Shows your understanding of how the architecture trade applies to this challenge.
- Is whimsical and makes whoever views it smile?
- Has a clear theme or story behind each element (the reason why you choose the structure you did)?
- Is aesthetically pleasing and well constructed.
- Is creative, futuristic, innovative, and reliable.

Parameters

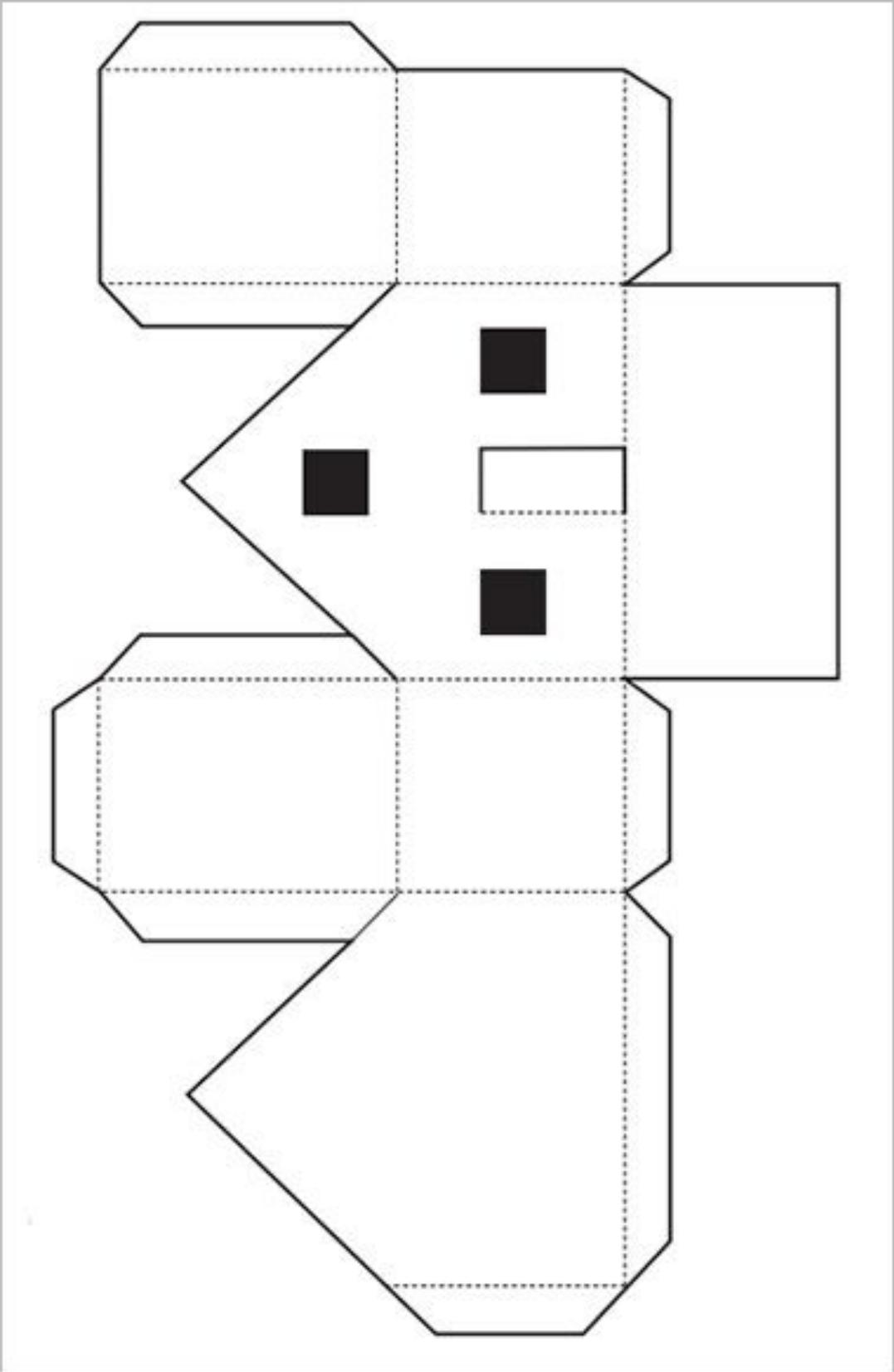
- Make sure you are keeping in mind that the two houses will have to be connected.
 - Both houses will need additional means of important things in the household
 - Besides connecting the two houses, create one unique feature within the home
 - The house should be structured well and include a house plan if you wish.
- 

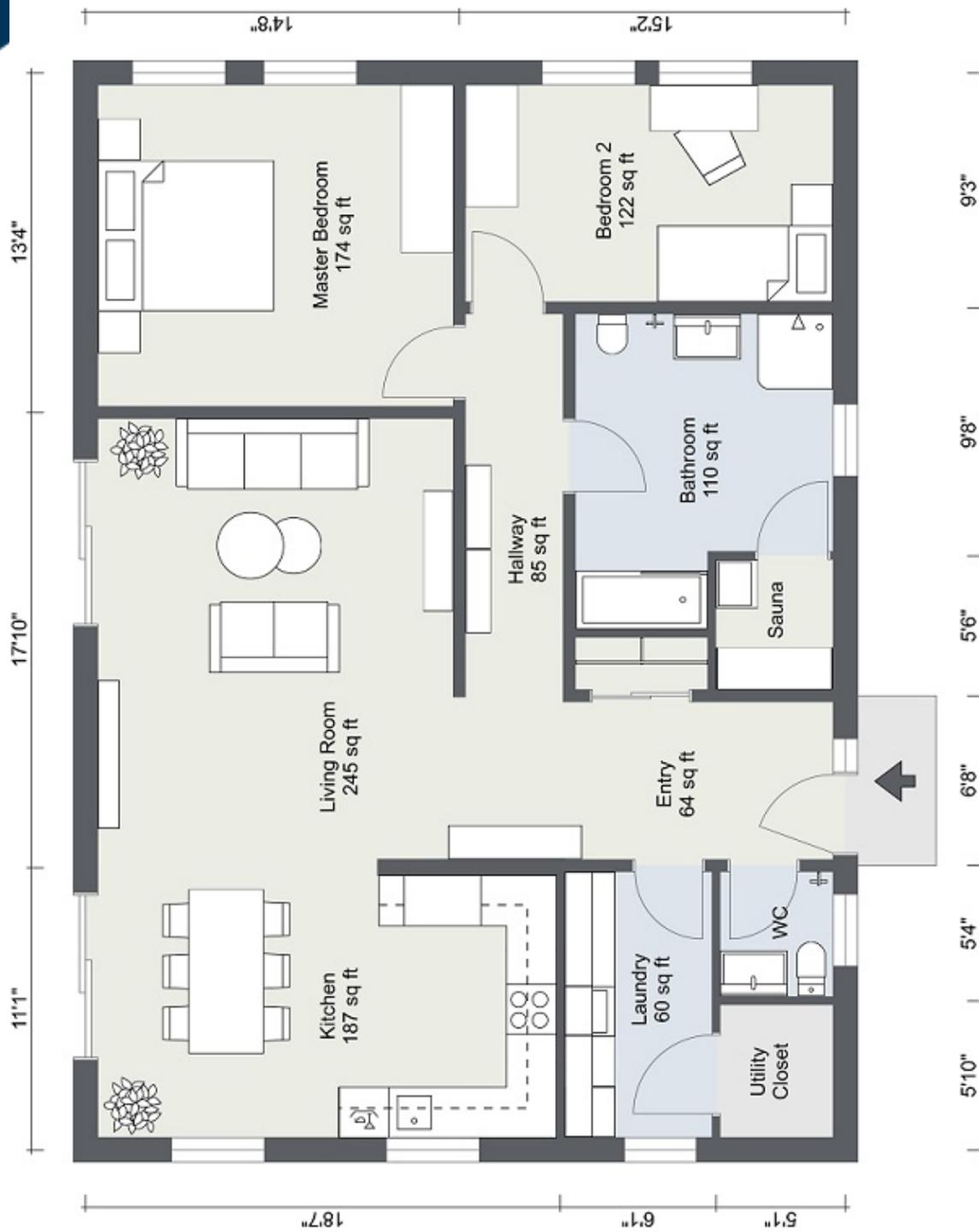




A house would not be complete with furniture. Please cut these out and use them to decorate your home with them if you wish; or create your own







Here is an example of a blueprint. Blueprints are used by architects to know where things will be placed during the building process. You do not have to use this exact one but design your own for how your connected houses will look.

Questions

1. Name four skilled trades or technology workers you would need to hire to complete this house:

2. Name something you found interesting or did not know or find about architecture:

3. Name one challenge you came across during the design process of this task. How did you overcome it? If no challenges occurred, what was your favourite part about your design? Explain.

4. Name one thing you learned from completing this activity.

5. Are you interested in pursuing a career in the skilled trades or technology field? If so, which one & why?





