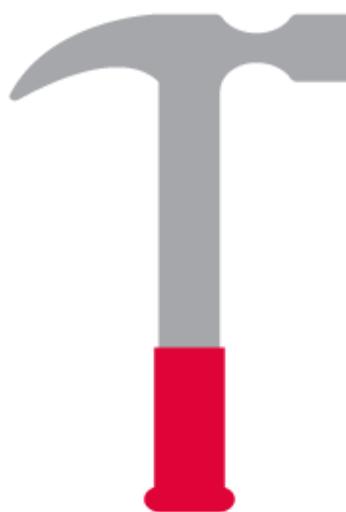


SCNL PRESENTS

MAKING AT HOME




SkillsCanada
Newfoundland and Labrador

SKILLED FUTURES


SkillsCanada
Alberta

WORKBOOK



Skilled Futures: Making at Home – Build the Ultimate Tree House

Overview

“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

Design a blueprint for your design keeping in mind a prototype will be created as well. What will the architecture look like? How would you design it using things from your home? Will it have rooms? How will you get up to it? What type of door will you use? What would you take from your home to put in it? How would you make it functional? How will you make it your own? What will you do in your treehouse for fun?

Create a unique space and design the tree house 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 & Notions
Cereal Boxes	Glue Stick	Skewers	Computer Designs
Styrofoam	Scissors or Utility Knife	Toothpicks	Paint
Tin Foil or Saran Wrap	Markers	Popsicle Sticks	Craft Supplies
Garbage Bag	Ruler or Measuring Tape	Pipecleaners	PomPoms
Small Pieces of Wood	Playdough or Clay	String	Anything You Can Find!
Bottles or Cans	Tape (Variety)	Zip Ties	



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 it 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 it aesthetically pleasing and well constructed?
- Is creative, futuristic, innovative and reliable?

Parameters

- Make sure you are keeping in mind that the tree house will have to have everything you need in order to live in it.
- Make sure you have a sturdy structure to be able to live in a tree.
- Create one unique feature within the treehouse.
- The treehouse should be structured well and include a house plan if you wish.





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?

