



# STEM Ahoy! Treehouse Challenge Directions

## Challenge:

Create your dream treehouse with a special feature!

## Directions

\*In this challenge you are designing 2 things: Your dream treehouse AND special feature!

1. Research and brainstorm designs of treehouses and the engineering behind construction.
2. Sketch your prototype/design of your treehouse.
3. Use research and sketches to start brainstorming your special feature prototype (Is it a game? Is it a hobby of yours?)
4. Plan your special feature prototype: draw or sketch the design. Watch some videos on crazy treehouses!
5. Use your household materials you chose to help with the ideas.
6. Make a model of your treehouse!
7. Test your treehouse and special feature! Will you have to modify?
8. Send a picture of you completing your challenge on Twitter and tag @classr00mrescue to be entered into the Tech Prize drawing!

## VDOE Engineering Design Process:



## Materials:

- \*Suggested Items\*
- \*Empty Cardboard Boxes
- \*Cardboard
- \*Paper
- \*Straws
- \*Tape
- \*String
- \*Index Cards
- \*Empty TP rolls
- \*Popsicle Sticks
- \*Paint/Crayons/Markers
- \*Rubberbands
- \*ANY household item!
- \*Your Imagination!!!