

Double Top Plate

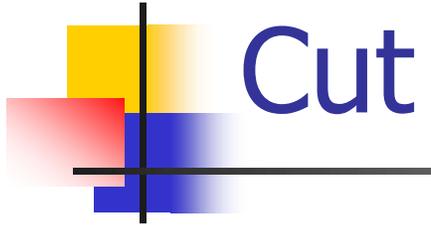
- To tie all the walls together and to give them more strength, we applied the double top plate.











Cut



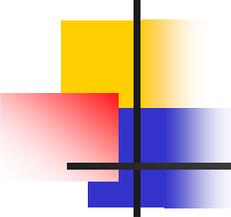




And Nail



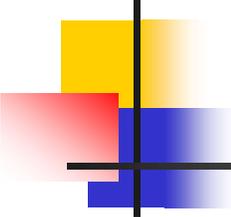




Square and Straight

- We noticed that some of the walls were not perfectly straight.
- On a full-sized house, each wall would be braced diagonally until the roof is on.
- On our model, we clamped a frame around the outside.



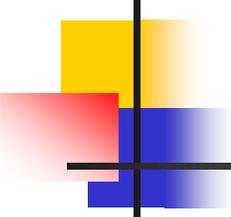


Ceiling and Roof Framing

- The next step was to put on a roof!
- We laid out the locations of the ceiling joists and roof rafters.

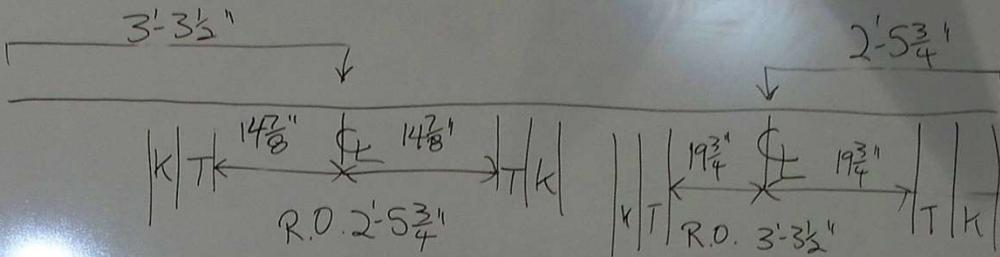






Ridge Board

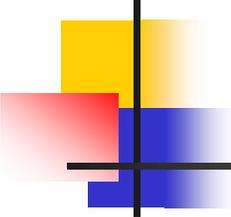
- As in a full-sized house, we put the ridge board in place and braced it in position.



CAUTION
WEAR GOGGLES
SPECS IN SHOP



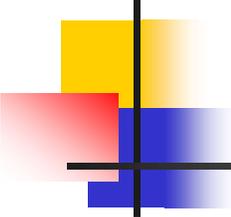




Rafters and Joists

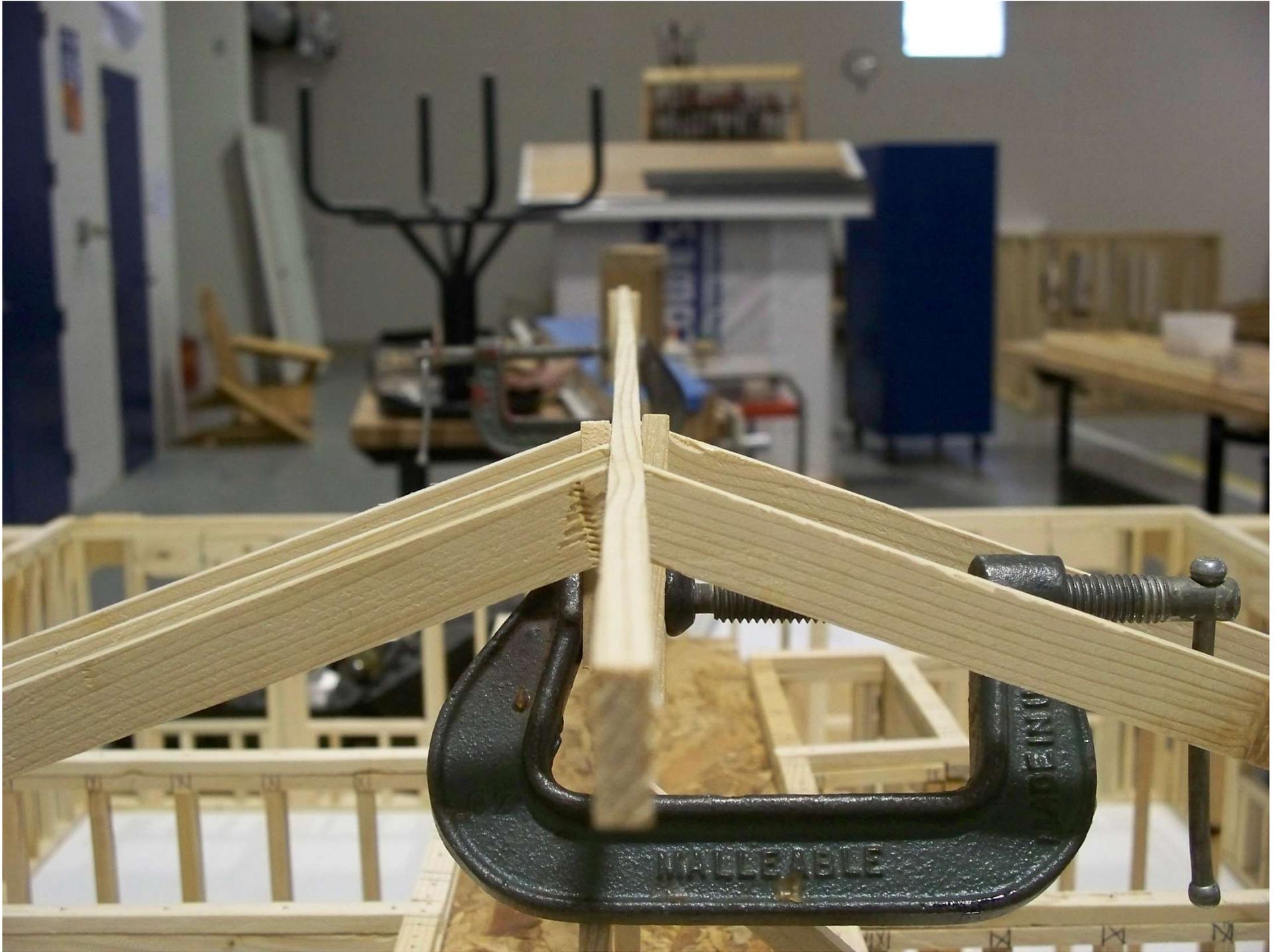
- With the ridge board in place we could start installing the rafters.



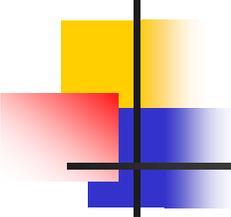


Installed in Pairs

- We had to install the rafters in pairs in order to keep the ridge board straight.

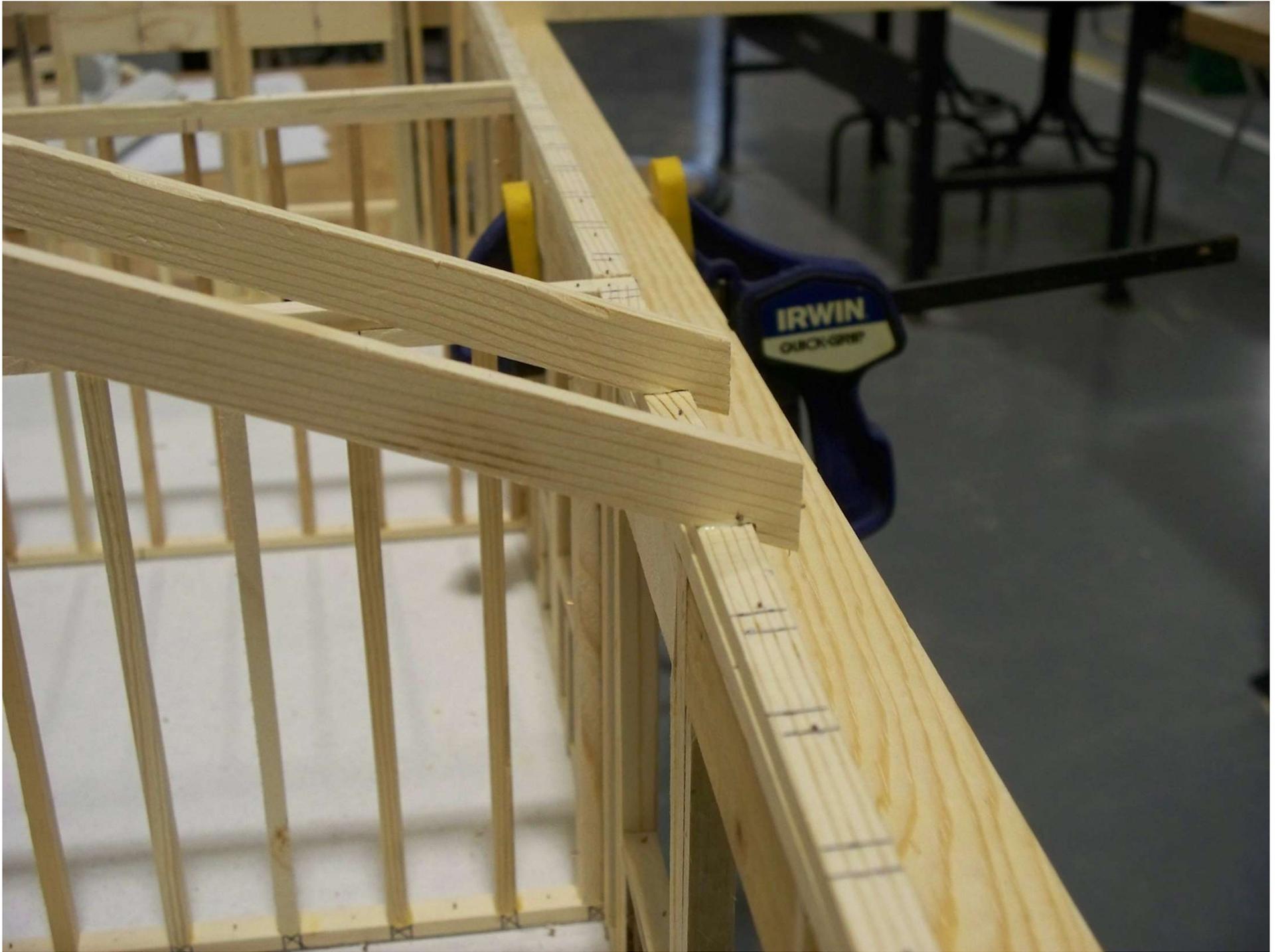


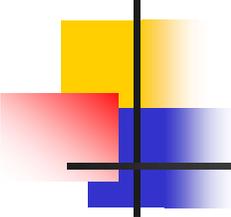




Bird's Mouth

- Our rafters have a “bird's mouth” notch to fit on the double top plate, just like on a full-sized house.
- Many model makers leave out this detail!





Ceiling Joists

- We installed a ceiling joist with each pair of rafters.



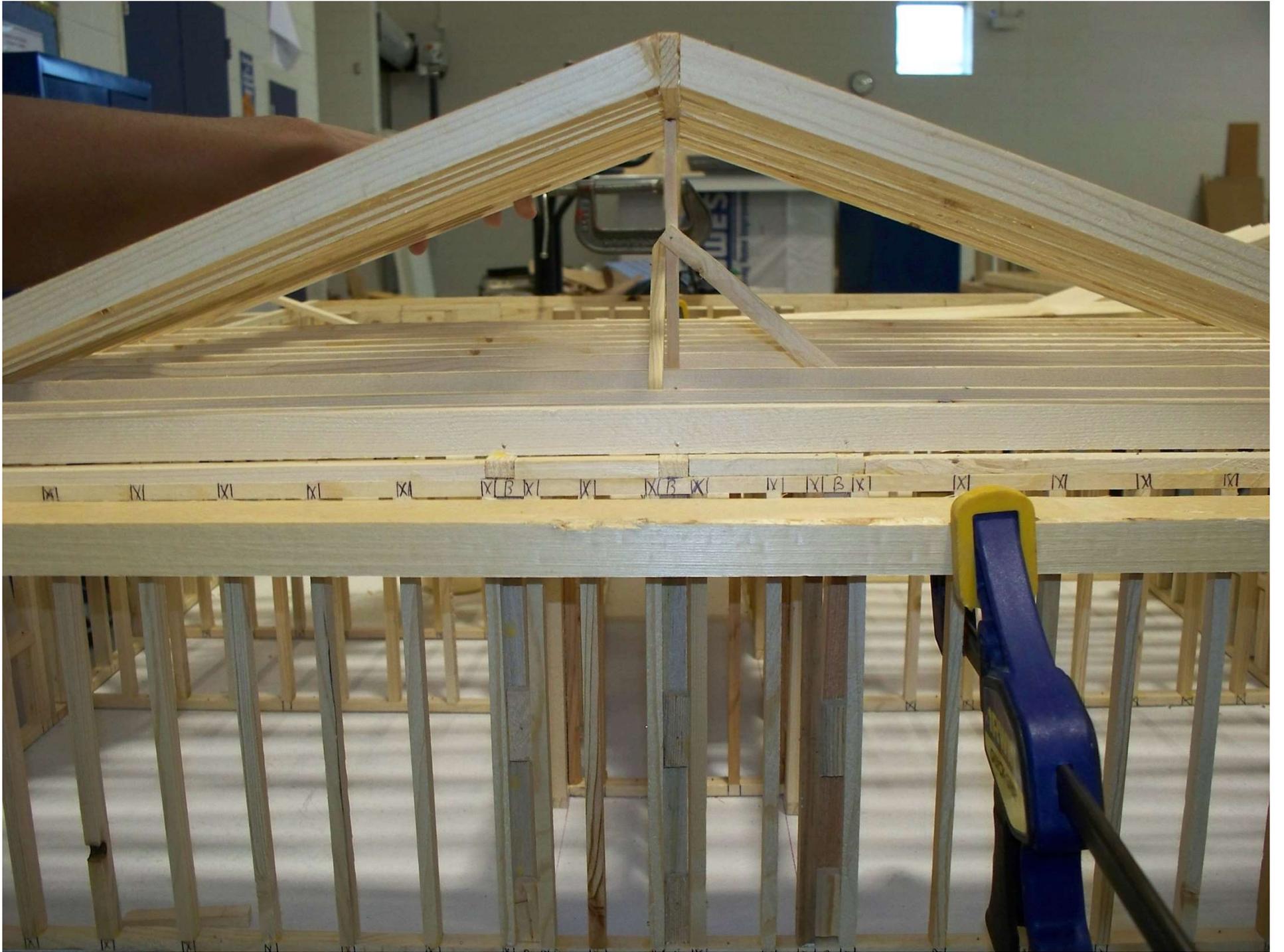


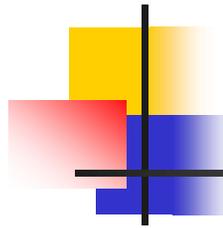








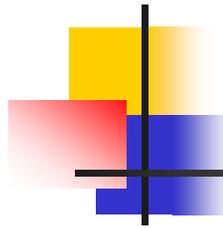




Teamwork!



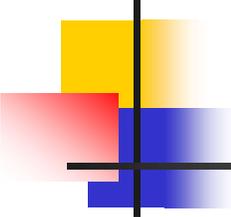




Is it Straight?







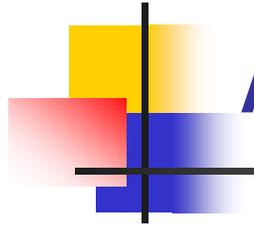
Girder

- In the living/dining area of the house, there is no wall in the center to support the ceiling joists.
- Since the span was 30' -0", we had to install a girder to shorten the span of the ceiling joists, just as on a full-sized house.



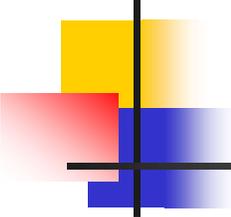






Attention to Detail

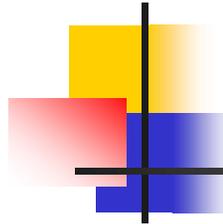




Trimming the Rafters

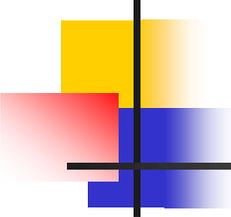
- On a full-sized house, the ends of the ceiling joists would be tapered to be flush with the rafters.
- To save time at the miter saw, we waited until the end and filed all of the ceiling joists.
- This was much more efficient for our model, but would not work on a full-sized house.





A Look Through the Attic





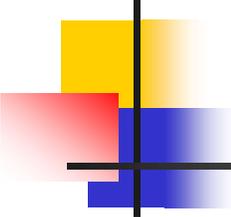
Gable Ends

- We installed studs in the gable ends of the roof.
- Each stud is notched to fit the slope of the roof.









Our Product

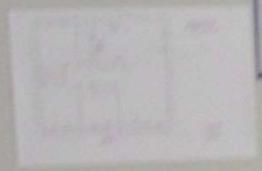
- Scale Model House
 - Scaled to 1" = 1' - 0"
 - 1,080 square feet
 - Three bedrooms, one bath
 - Open Floor Plan
 - Gable Roof





Ms. [unclear]

WEDNESDAY, 2/25 (1990)



Carpentry I Class

- Introduction
- Safety
- Hand Tools
- Power Tools
- Layout
- Joinery
- Roofing
- Siding
- Finishing

Mr. [unclear]

