

Virtual Learning

Residential Roof Systems

May 6, 2020



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Lesson: May 6, 2020

Objective/Learning Target:

Students will learn about the structure and construction of residential roof systems



Bell Ringer:

Take 3 minutes and compose a 5 sentence paragraph that answers the following question:

What is a roof?



Let's get started:

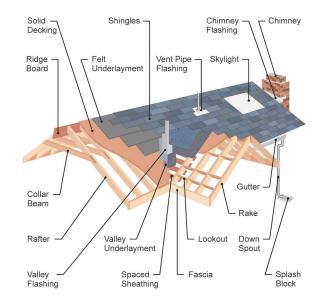
The main purpose of a residential roof system is protecting the inhabitants from wind and rain and other environmental elements. Typically, roofs are constructed using either roof trusses or rafters. There are pluses and minuses to each system so homeowners must weigh each and decide which system is the right one for them.

Top Chord

Runner

Webbing

Anatomy of a Roof





Practice:

Using the internet, research the appropriate residential roof construction methods for a typical home in your neighborhood. Discuss the different layers involved in a typical residential roof system. Be sure to include:

- Type of material
- Material thickness
- Purpose of material

Finally, compare and contrast a roof truss system vs. a roof rafter system. Which would you choose? Why?



Additional Resources:

Residential roof types

Roofing process

Roof structure summary