

Culminating Activity

Value: Combined total to equal 30% of final mark
(Course work = 70%)

Your culminating task will consist of Four (4) parts:

1. Complete the "Roof Design Booklet", answer the accompanying questions, and write the test. (5%)
2. Produce a "front view" drawing of the roof truss system you intend to use complete with angular and linear measurements. (5%)
3. Construct and erect a roof system for your house. (15%)
4. Final completion of the house. (5%)

Total: 30%

Part 1

Students will complete the roof design questions; and answer all of the questions in the booklet to prepare for the "Roof Design" test. (**Thinking & Knowledge**)

Part 2

Produce a working drawing of the roof trusses that will be constructed complete with angular measurements, slope, lengths, width, type of truss, and centre it on the paper. (**Communication**)

Part 3

Complete the construction of the roof system while remembering to include criteria required; namely: aesthetics, proper dimensions, spacing, symmetry (both webbing and centred ridge board), slope compliant with drawing, and fascia installed. (**Applications**)

Part 4

Complete the entire house (walls, partitions, double top plate, roof system, etc.). (**Applications**)

Glenforest S. S.

Construction Technology Name: _____

Culminating Activity (30% of final mark)

Model Residential Home Roof Truss Evaluation

Evaluation

Criteria:	Level 1	(50-59%)	Limited effectiveness
	Level 2	(60-69%)	Moderate level of effectiveness
	Level 3	(70-79%)	Considerable level of effectiveness
	Level 4	(80-100%)	High degree of effectiveness

Construction: *Application*

Level 1	Level 2	Level 3	Level 4	Criteria	Out of:
				- % completion [(total # of rafters completed / total required) * 100]	/10
				- appropriate rafter slope with respect to span	/5
				- fascia (straight, touches all rafters, parallel to walls)	/10
				- proper configuration of support webbing (Howe or Fink)	/5
				- webbing consistency (symmetry throughout entire roof system)	/10
				- shop practice (proper use of tools, safety equipment, and cleanup)	/10
				- aesthetics (excess glue, missing components, inconsistent material sizing, splinters)	/10
				- time management skills	/5
Total:					/65

Comments:

Roof Truss Drawing Evaluation Rubric

Name: _____

Criteria	Level 1 Limited Success (50% - 59%)	Level 2 Some Success (60% - 69%)	Level 3 Mostly Successful (70% - 79%)	Level 4 Highly Successful (80% - 100%)	Value
1 view	One view shown but not centred on sheet	1 view shown, but out of position or not symmetrical	1 view correctly positioned, aligned and symmetrical	Exceptionally precise work	/5
Line	Lines not drawn with straight edge, sloppy blotted or uneven	Object lines too light, construction lines not shown, uneven weight	Straight, clean lines. Lines mostly in proportion	Exceptionally precise work	/5
Lettering	Sloppy, incomplete lettering. Not centered, wrong height or lowercase	One or two of the problems listed in level 1	Block letters, all CAPITALS, correct height, centered, neat	Exceptionally well formed letters with a consistent style	/5
Proportion	Looks like an elephant with mouse ears or vice-versa.	Most parts of the object drawn to appropriate scale	All items drawn to the appropriate scale	Exceptionally precise and an accurate scale	/5
Dimensioning	Dimensions not shown	Some dimensions shown but mostly inaccurate	All dimensions shown	Exceptionally precise dimensioning	/5
Component Identification	Components not identified	Some components identified	All components identified	All components neatly and accurately identified	/5
Presentation	Smudged, wrinkled, careless or confused drawings	Mostly clean, attractive easily understood drawings	Clean, attractive, accurate and easily understood drawings	Very clean, attractive, accurate easily understood drawings	/5
Total					/35