Math 304-Measurement Project

Scoring Criteria –Turn this sheet in with each Part.

Type of Evidence	Points earned/possible
Part I - Due March 22nd	
1. Shed Research a. Turn in 3 pictures/sketch of sheds. You may take one from an advertisement, the other two are to be actual sheds you have photographed or sketched.	/3
b. Write a description of <u>each</u> shed listing dimensions of the photo. For those photographed/sketched list and the actual dimensions. Include the pitch of the roof and door size for each shed.	/7
Part II - Due April 3rd	

2. Make <u>Four drawings</u> of your own sloped roof shed:
   a. 3-D drawing with hidden edges
 	
   b. a side view
 	
   c. a top view
 	
   d. a front view
	/9

3. Label the actual shed's <u>dimensions</u>, <u>pitch</u>, and used <u>scale</u> on each of the your drawings.	/4
4. Construct a <u>model</u> of your shed, if you choose to use a different scale than you had listed in your drawings attach your new scale. (Up to 5 bonus points possible when your model includes extra details, such as scale furniture, shingles, siding, or other creative features that make your shed into a playhouse)	/10

Type of Evidence	Points earned/possible
Part III - Due April 12th	
1. Included Stages I & II scanned in and presented in SMART Notebook software with any corrections required.	/10
2. Calculate the surface area of the model and actual shed, include two ways you have shown how to work each out.	/12
3. Calculate the volume of the model and the volume of the actual shed.	/10
4. Describe the following: a. How the linear scale factor relates to the surface area of the model compared to the actual shed b. How the linear scale factor relates to the volume of the model compared to the actual shed. c. Use the SMART Notebook software to visually explain how your linear scale factor relates to the area and volume.	/15

See Math 304's website for examples and more details