Math in Tlingit Weaving Design Rubric

Blueprint Specifics

Didepin		
General	1 blueprint with a trad	itional Tlingit weaving design
	1 blueprint with an orig	ginal weaving design
	Finished blueprint show	ald be neatly colored in (please avoid markers)
	Finished blueprint shou	lld have designs clearly labeled with their
	names	
Similarity	(I) Blueprint should have	ve the scale between blueprint and the lantern
	clearly labeled	_
	Used a ruler to transfer	blueprint onto lantern
Shapes	(II) Together, both blue	eprints need a total of 5 different labeled
	shapes	
	Only 1 quadrilateral	can count towards these 5 shapes
Protractor	(III) All angles must be	e measured and labeled with their degrees
	(note: repeated angles	only need to be measured once.)
Coordinate	Blueprints must have a	clear x-axis and y-axis
Grids	(IV) 5 coordinate pair	rs must be labeled on each blueprint
Symmetry	(V) Each blueprint desi	gn must have clearly labeled translational
	and reflectional symn	netry
	(VI) Lines of symmetr	ry must be clearly marked at some location in
	each blueprint.	
	(VII) One blueprint des	sign must have an example (design element)
	that has rotational syn	nmetry
	(VIII) The blueprint des	sign element with rotational symmetry must
	have the angle of rota	tion clearly marked on one of the elements.

Note: Use the Roman Numeral indicated above to help keep your labeling clear.

Blueprint Specifics (8th Grade Only)

Transformations	(IV) One blueprint must have a rotation of a design element
(8 th Grade	clearly labeled and explained (for example: 90 degree rotation
ONLY)	counterclockwise around point Z)
	(V) One blueprint must have a reflection of a design element
	clearly labeled and explained. (for example: triangle XYZ was
	reflected over line $x=3$, the new image triangle X'Y'Z' is clearly
	labeled).
	(VII) One blueprint must have a translation of a design element
	clearly labeled and explained (for example: square ABCD was
	translated <-3,2>, the new coordinates of A'B'C'D' are)

Lantern Specifics

General	 Only one of your blue print designs must be on the finished
	lantern.
	□ A small section is properly woven (at least 5 rows of weaving) on
	lantern
	 Design is colorful and neat
	 An attachment is included for hanging your cylinder lantern
	Blueprint is attached to lantern
	 Finished project has a high quality appearance
	□ (Extra Credit) Design matches where flat pattern meets to form
	cylinder