

What Makes Structures Stand Up?

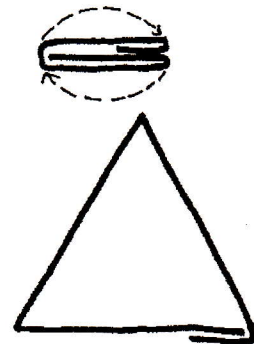
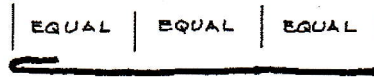
Application of Architectural Concepts

Triangle

"Take a strip and again fold the end over 1/2 inch.

"Hold that fold and carefully work the rest of the strip until you have it in three equal parts. When the parts look even to you, fold them down.

"Bring the overlap and the edge together, and tape or glue them together."



TRIANGLE

Pyramid

"Any form that has triangular sides coming to a point at the top is a pyramid. In architecture, it usually means a form with a square base and four triangular sides-like the great pyramids in Egypt.

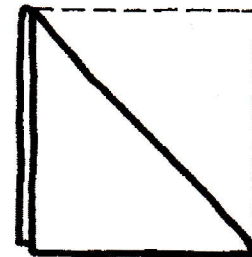
"To make this form, fold a square across the diagonal way. Open it up and fold it diagonally the other way.

"Make a cut in the middle of each of the triangles almost all the way to the center point, but not quite.

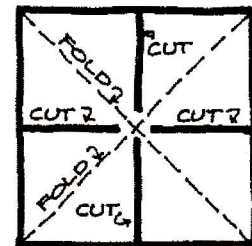
"Overlap each of these cuts just a little bit, and tape or glue them together.

"For a three-sided pyramid, start out the same way, making the diagonal folds. However, this time you will make only one cut in the middle of one of the triangles that goes all the way to the center point.

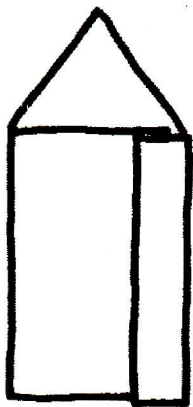
"Overlap this cut completely over the opposite side, so it forms a triangle that is the same size as the other two sides."



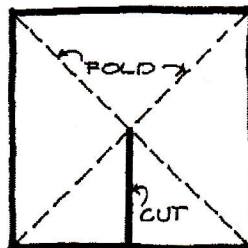
DIAGONAL FOLD



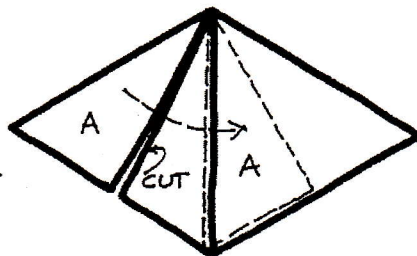
SQUARE PYRAMID



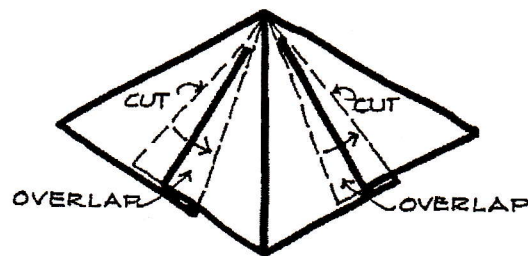
TRIANGULAR STRUCTURAL MEMBER



TRIANGULAR PYRAMID



TRIANGULAR PYRAMID



SQUARE PYRAMID