

What Makes Structures Stand Up?

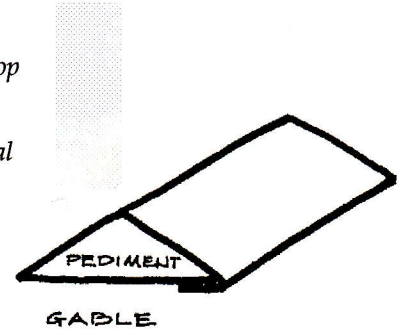
Application of Architectural Concepts

Gable

"A gable is the triangle that is formed by a roof that pitches two directions from a top ridge. This is the most common form for a roof or a dormer.

"Fold the edge of a square over 1/2 inch. Work the rest of the square into three equal parts. When you think you have the parts equal, fold them down. Tape or glue the edge to the overlap.

"Now you have a gable roof. The triangle formed at each end is sometimes called a pediment, and is decorated with various designs."



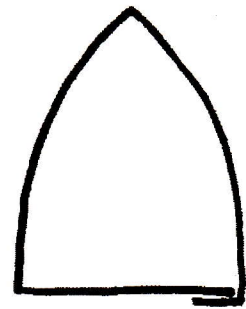
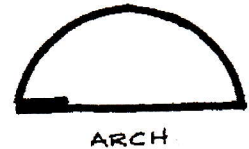
Arch

"Fold over 1/2 inch at the end of a strip. Hold that fold, and fold it over about one third of the way to the opposite end of the strip.

"Form the rest of the strip into a half circle, and tape or glue the end to the overlap.

"You can vary the height and width of the arch by the way you fold the strip.

"If you would like to have a Gothic arch, make the first fold about a quarter of the way over on the strip. Fold the rest of the strip in half and tape or glue the edge to the overlap. This will give you an arch with a pointed top similar to the arches in Gothic cathedrals."



Barrel Vault

"You can make a roof out of an arched form.

"Take a square and fold the edge over 1/2 inch. Hold that fold and work the rest of the piece into three equal parts.

"Fold down just one of the parts, the same as you did with your arched strip. "Arch the paper over the flat base, and tape or glue the edge to the overlap. "

