Kite Design

Team 1: Aaron Meier, Tommy Pilarz, Tung Nguyen, and Kelly Williams
Practical Application

Kites are actually used to generate electricity. There are tidal kites that work underwater to generate energy from water currents.
Dowel Diamond

- Classic design
- One string from the intersection of dowel pins
- Wooden dowel pins used for support
- Any plastic stretched over and fixed to the ends of wood make it take flight
- Cheap and inexpensive
Box Kite

Good for high lift

Most altitude records for kite flying are held by box kites.

Practical applications- can be used for advertising
Tetrahedral

- very stable and easy to fly
- harder to make than the standard cross kite
- flies well in moderate to heavy winds
- pyramid shaped framework, which is one of the strongest structure
- kite is cellular, easy to expand
In 1907, Alexander Graham Bell created a 3,393 cell tetrahedral kite 40 feet long, 200 pounds. It was towed by a steamer and carried a man 168 feet above the water.
Delta Kite

- Designed to fly well in light wind.
- Ability to fly at very high line angles
- Its versatile design can be altered slightly to suit all wind ranges
- Named after the fourth letter in the Greek alphabet
Practical Application

High altitude wind power
- large surface area of delta is good for high altitude flight.