Kite Designs

Engineering Design 100

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Design 1- Delta Kite

The delta kite is a kite made for recreational games. It is generally very cheap and safe; however, it is not too technologically advanced. It is made of 3 rods that form a large angle that is bisected by a ray. For this particular project, if we were to design this kite, it would be constructed out of three rods of woods, fabric provided, and duct tape. It is decent at flying, especially if there is wind. If you run fast enough, you do not need wind.
Design 2 - Box Kite

The box kite is usually used in meteorology prediction. Since it has a hole in the middle, it flies very high with little wind. It has 4 troughs and 2 X’s on each end connected by cloth. Since it is made with so many materials, it is not very resourceful; however, the design of the 2 X’s show that it is very technologically advanced, especially more than the delta kite.
Design 3- Diamond Kite

This kite is the easiest to put together. It is the most popular kite, and it too is a recreational kite. Usually this kite is used in the backyard or on the beach. It costs very cheap, but it is not that technologically advanced. Most people when they hear of kites, they think of this kind. Diamond kites flies relatively well in the wind; however, it is really hard to get it to start flying. When it is in the air it tends to wave around very easily, but it is still fun to play with.