Detail of Four Kites

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Power Kite

- Application - Used predominantly for extreme sports such as kitesurfing, kiteboarding, man lifting, snowkiting, etc...
- Power kites work the best for such sports because they capture wind in their foils, which creates a strong pull on the kite that can actually carry a human.
- The design is feasible to make but more costly than other types of kites. They usually cost greater than $100.
- They are also the most dangerous of the kites due to the force at which it can pull someone. It is used for sport rather than placid recreation.
- Power kites have recently been tested to see if they can be used to generate electric power for power grids.
Power Kite Sketch
Diamond Kite

- Application - Aerial photography, used to take photos from high altitudes
- This kite is very suitable for the task because it is reliable and stable
- The diamond kite is very safe because of its stability and even if it does come crashing down there is plenty of time to get to a safe place.
- The design is very simple to make with basic materials
- This kite was the very first simple kite known in existence.
Diamond Kite Sketch
Delta Kite

- Application: This kite is used for surveillance. By attaching a camera to it, an aerial view is possible to obtain.
- The delta kite is cost efficient. It does not need a lot of material to build.
- This kite is safe because the use of two lines allows for a lot of maneuverability.
- It is easy to make, it only needs a couple of supporting rods, some material to cover it, and two strings to control it.
- Fun Fact: this type of kite is used in stunt competitions because of the use of two string to control it.
Delta Kite Sketch
Box Kite

- Application- Taking the temperature of the air, at least 30 ft up, which belongs under the category of meteorology.
- This would be suitable for this task as the box kite is known for its ability to go high into the air and have one of the most stable flights out of the different kites.
- This kite has more parts to it, so it does not manage the resources as well as other kites but it is still low maintenance.
- The kite is feasible for the group to do as using the materials provided the kite can be built to the standards it needs to be to produce flight.
- The possible cost should not be very high as it only uses dowel rods and plastic sheeting.
- This kite is also safe as it doesn’t have any pointy edges to injure someone.
Box Kite Sketch