Team Fantastic Four

Kites
Dopero Kites
History

• Invented in 1994 in Germany by Ralf Beutnagel.

• Idea came from Pearson Roller kites.

• Two Pearson Roller kites connected side by side.

• **DOuble PEarson ROller**

• Light wind kite

• Materials: Rip-stop nylon & carbon fibre spars – minimum weight

• Standard 3 meters in length
Practical Use

- Commonly used for aerial photography
- Great stability due to 4 bridles
- Lifting capacity: up to 4 pounds, even in light winds.
- Can easily lift camera gear.
Delta Kites
Design

- Named after the fourth letter in the Greek alphabet, Delta, which is triangular in shape, a Delta kite also appear triangular.
- They display an efficient design that out preforms most other kites in light wind.
- They also fly higher than most kites at high angles.
- They are easily adaptable to many wind conditions, and often have longer towing lines that enable stress of flying to be decreased along the frame of the kite.
Practical Applications

• Often Delta Kites are used as decorative pieces, and recreational use.
• They are a popular kite for conducting weather-related temperature experiments as well as other weather-related uses, for instance barometer readings.
Practical Applications for Kites

- Kites can be used to measure atmospheric conditions.
- By measuring the atmospheric conditions, the customer can figure out if the weather is in normal conditions or inverse conditions.
- This can be done by looking at the change of temperature between the ground and in the air.
Box Kite

- For this applications, I recommend the box kite design.
- This kite is known to be a good lifter for objects, the structure is rigid and can easily develop high lift.
Sled Kites

• The first design was credited to William Allison of Ohio in 1950
• Invented for recreational use.
• 1954 Frank Scott, came up with another version.
  • This one had vents for stability, and the sides were parallel instead of tapering.
Practical Applications

- Recreational Use
- Used by anglers to cast out fishing line
- Known for lifting capabilities