Pros and Cons of Potential Kite Designs

Delta Kite

- Pros:
  - Able to fly
    - Stable flight
    - Able to be maneuvered
  - Maneuverable in:
    - Slow wind
    - Medium amounts of wind
    - Minimal amounts of wind
    - Dynamic/varying levels of wind
  - Visually appealing
  - Easy to build
    - In class, using materials
  - Safe for on-lookers
  - Able to fly at:
    - High altitudes
    - Medium altitudes
    - Relatively low altitudes

- Cons:
  - Sometimes too big
  - Requires a lot of line

Diamond Kite

- Pros
  - Able to fly
    - Stable flight
    - Able to be maneuvered
  - Maneuverable in:
    - Medium amounts of wind
    - Minimal amounts of wind
    - Dynamic/varying levels of wind
  - Easy to build
    - In class, using materials
  - Safe for on-lookers
  - Able to fly at:
    - High altitudes
    - Medium altitudes
    - Relatively low altitudes

- Cons
  - Visually unappealing
  - Cannot fly very well in low winds
Pros and Cons of Potential Kite Designs

**Tetrahedral Kite**

- **Pros**
  - Able to fly
    - Stable flight
    - Able to be maneuvered
  - Visually appealing
  - Safe for on-lookers
  - Able to fly at:
    - High altitudes
    - Medium altitudes
    - Relatively low altitudes

- **Cons**
  - Can only fly in medium/high winds
  - Very difficult to build
    - Especially using in-class materials

**Box Kite**

- **Pros**
  - Able to fly
    - Stable flight
    - Able to be maneuvered
    - Easy to build
      - In class, using materials
  - Safe for on-lookers

- **Cons**
  - Not visually appealing
  - Can fly in:
    - Moderate
    - High winds
  - Designed for high-altitude flying

**Shovel Kite**

- **Pros**
  - Able to fly
    - Stable flight
  - Visually appealing
  - Easy to build
    - In class, using materials
  - Safe for on-lookers
    - Medium altitudes
    - Relatively low altitudes
Pros and Cons of Potential Kite Designs

- **Cons**
  - Only maneuverable in high winds
  - Only able to fly at
    - Low altitudes
    - Moderate altitudes