

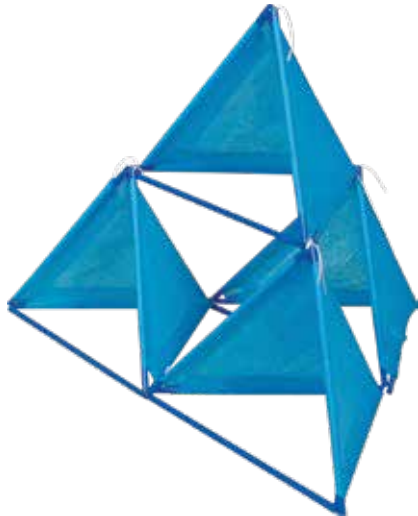
KaZoon Kite

Grades 3+ | Students Served: 30

ELEMENTARY

MIDDLE LEVEL

HIGH SCHOOL



Essential Questions

What factors determine density?

What is the name of the basic 3-D shape of this kite?

What is the best process for building something larger from something small?

Career Connections:

- Jeweler
- Fashion Designer
- Construction Worker
- 3-D Graphic Artist

STEM Connections

Science

- Forces
- Lifting bodies
- Newton's laws
- Equilibrium

Technology

- Attributes of design
- Structures
- Historical perspectives

Engineering

- Problem solving
- Materials strength
- Technological design

Math

- Geometric solids
- Binomial expansion
- Congruency

Sample Activity

Kite Challenge

Challenge

After building and flying the KaZoon Kite as instructed, build an improved kite.

- Brainstorm and plan ways to improve the kite – a different shape, tail, stability, or materials or other additions.
- Plan and sketch the redesigned kite.
- Write a claim about how this kite will fly differently from the previous kite.
- Construct and test the new kite and document its performance.
- Explain whether the evidence supports or contradicts your claim about your kite's performance.

Literature Connection: Read *Curious George Flies a Kite* or research the history of kites, Benjamin Franklin, the Wright Brothers, or other innovators who used kites to develop inventions.

Discussion

Why is measuring important in creating and testing the kites? What kind of forces interacted with your kite to make it fly? What alternative materials could you use?

