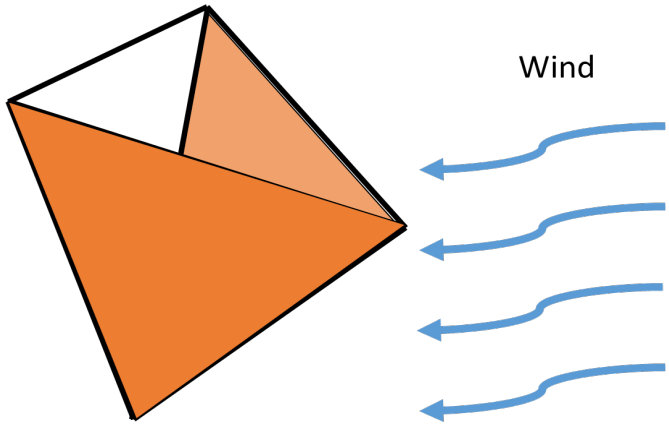
Name: Date: Class:

Design and Fly a Kite Pre/Post-Quiz

1. On the diagram below, draw and label arrows showing forces acting on the kite. Specifically, include the direction of the force and who/what is applying that force.



2. Why do engineers create prototypes?

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3. Describe the steps of the engineering design process:

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4. Match the word to its definition by connecting them with lines.

A. lift	The act of pushing, pulling or applying pressure.
B. drag	A system (such as a kite) that consists of multiple subunits that complete the whole design.
C. force	A force, opposite to gravitational force, created by fluid (air) flowing past an object.
D. tetrahedron	Force that opposes the motion of an object traveling through fluid.
E. modular	A three-dimensional shape made of four equilateral triangles.