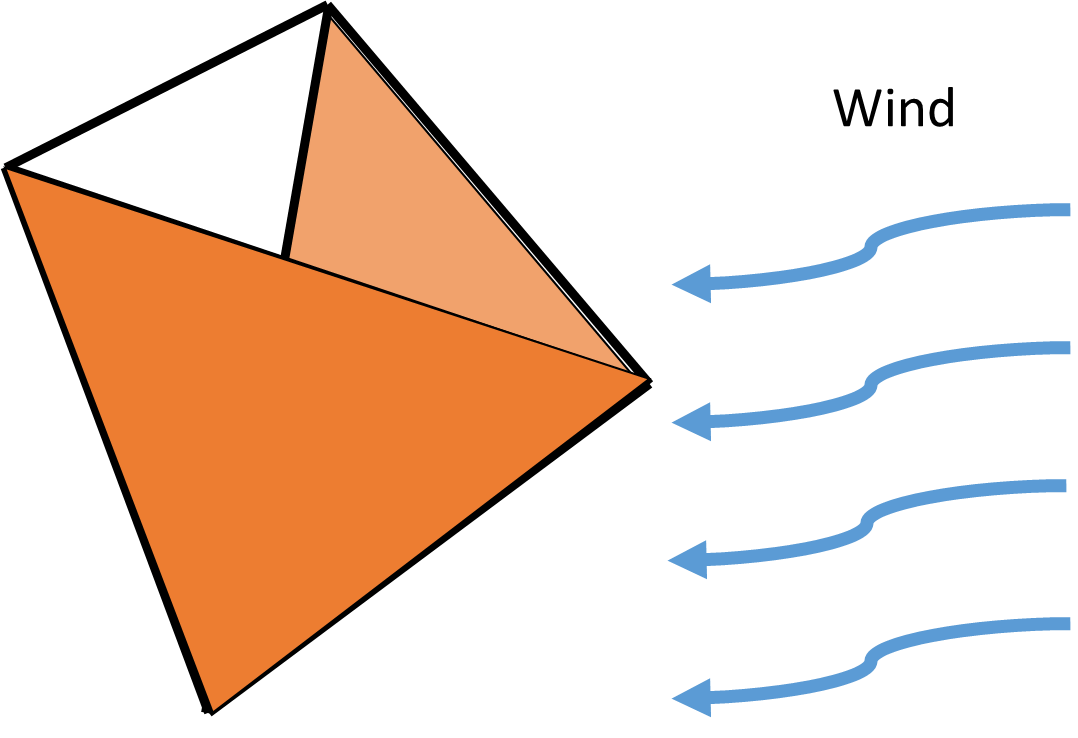
**Design and Fly a Kite Pre/Post-Quiz**

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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1. Describe the steps of the engineering design process:

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

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| 1. lift | The act of pushing, pulling or applying pressure. |
| 1. drag | A system (such as a kite) that consists of multiple subunits that complete the whole design. |
| 1. force | A force, opposite to gravitational force, created by fluid (air) flowing past an object. |
| 1. tetrahedron | Force that opposes the motion of an object traveling through fluid. |
| 1. modular | A three-dimensional shape made of four equilateral triangles. |