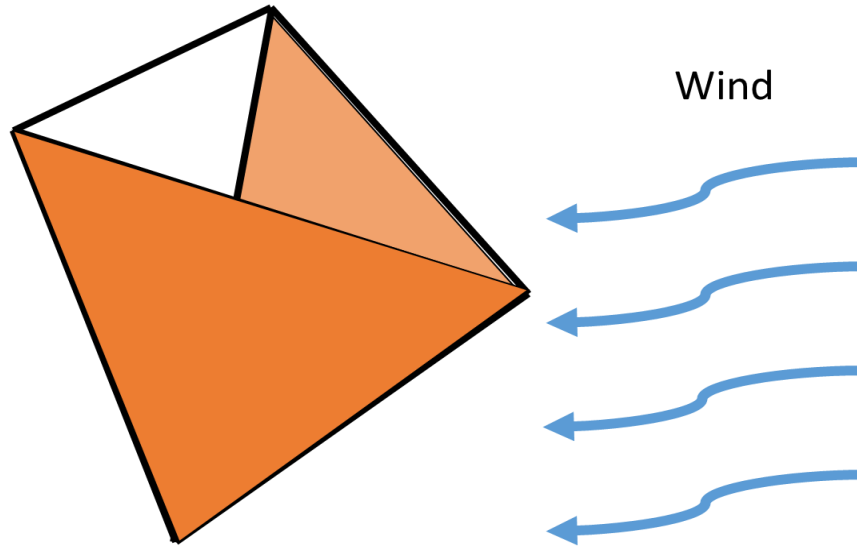


## Design and Fly a Kite Quiz

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.

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|----------------|--|
| 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.                                |