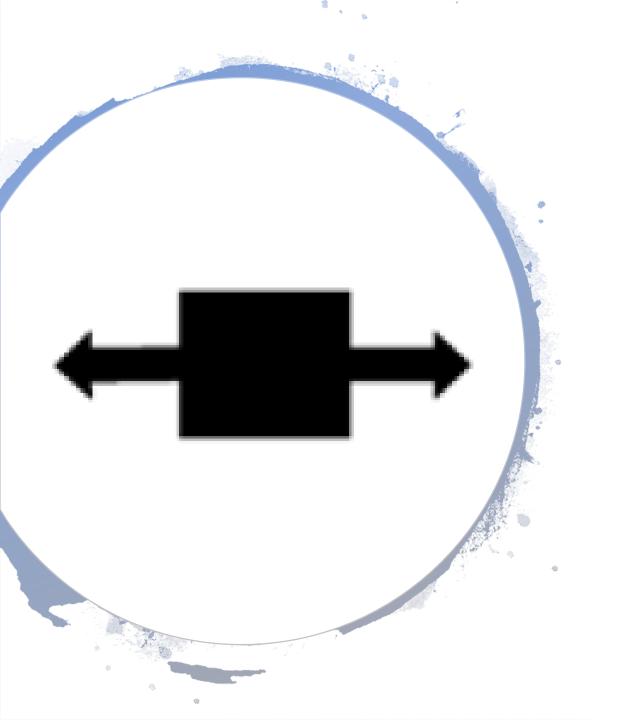
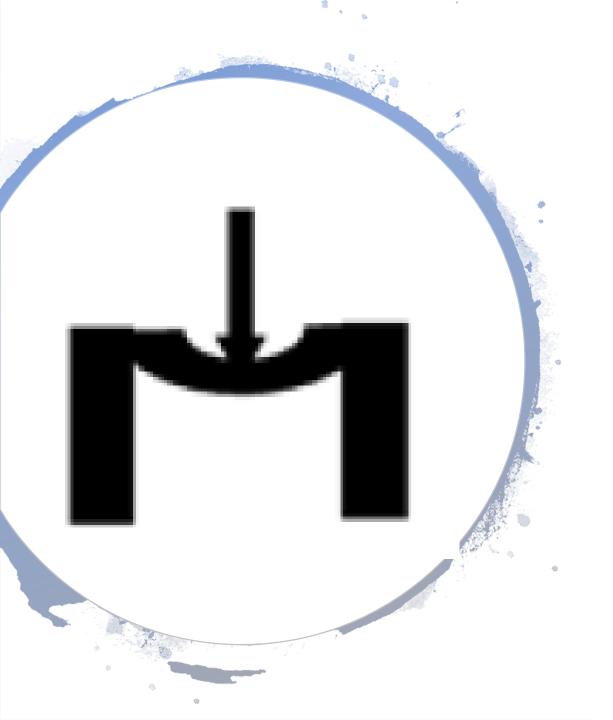
Five Forces of Spaghetti

Load is applied to the top of the structure Compression



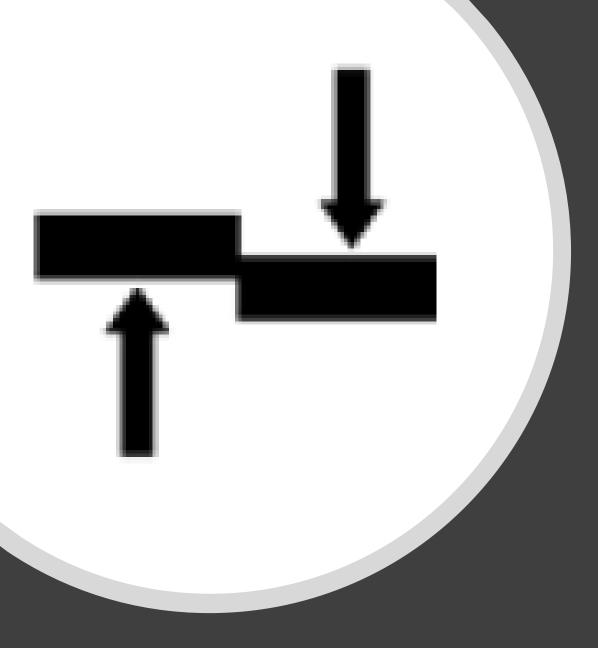
Tension

• Load is applied along the structure in a pulling action



Bending

• Like a bookshelf loaded down with heavy books



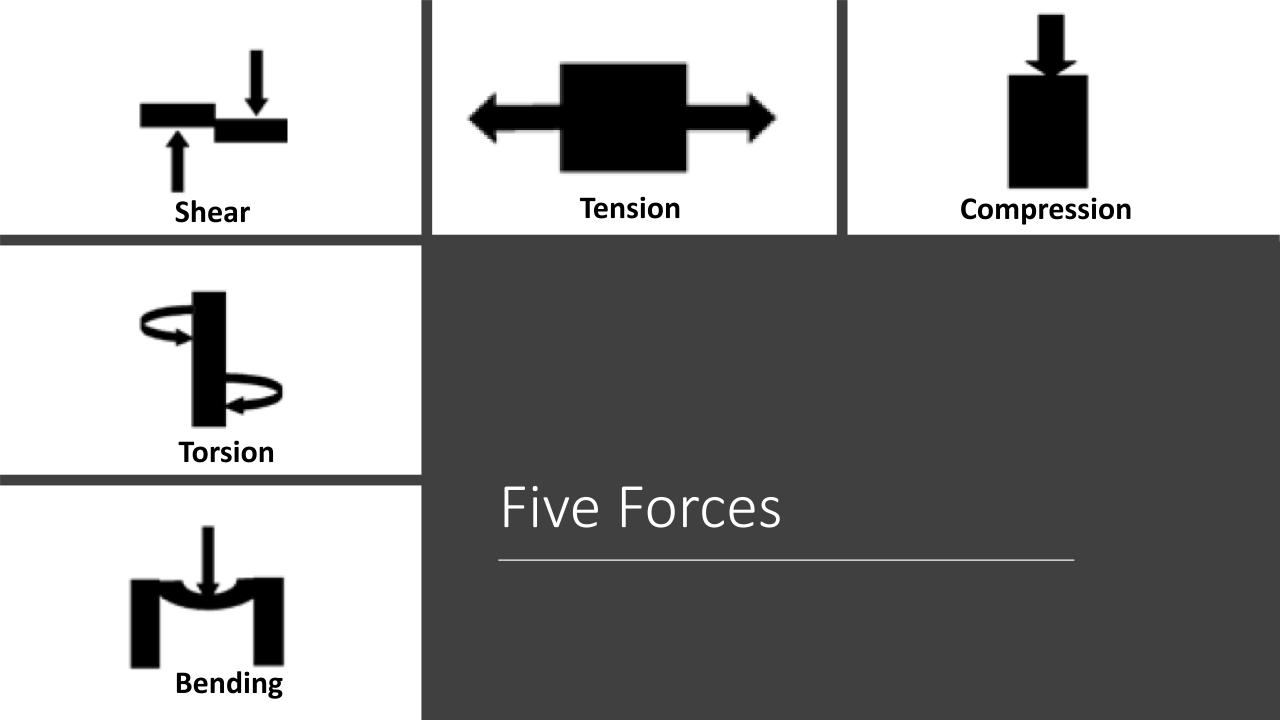
Shear

• When forces are exerted on the same plane but opposite directions



Torsion

Forces that twist the structure apart



Spaghetti Challenge

Groups of 3-5

Materials: 25 strands of spaghetti, 1 yard tape, 1 marshmallow

Goal: construct the tallest spaghetti tower which can support a marshmallow