

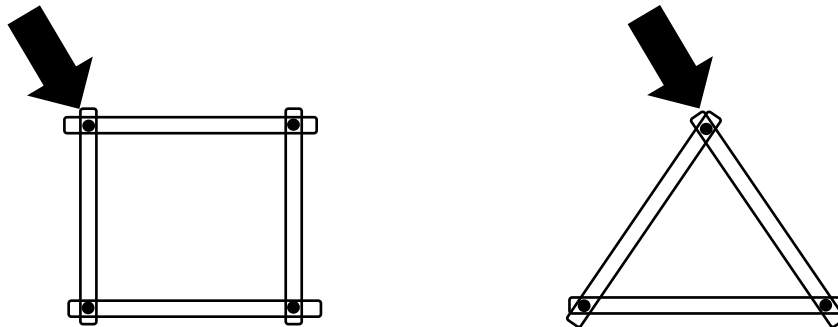
Name: _____ Date: _____ Class: _____

Pre-Activity Quiz

1. Explain if and why the shapes below would either remain unchanged or collapse if you pressed down at the pin joints in the arrow directions. If the shape collapses, how might you strengthen it?

Square: _____

Triangle: _____



2. Calculate the strength-to-weight ratio of the three objects in the table below:

Object	Mass (g)	Breaking Load (g)	Strength-to- Weight Ratio
1	6	102	
2	4	76	
3	6	114	