

When we look at the results from the 2 activities, what trends do we notice? If we were to do these activities as a group of adults, do you think the results would change? In what way?

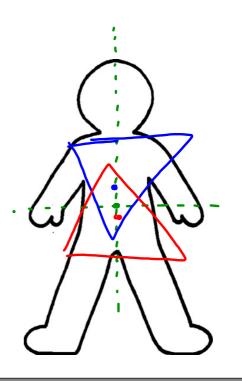
Where do men/women carry most of their weight?

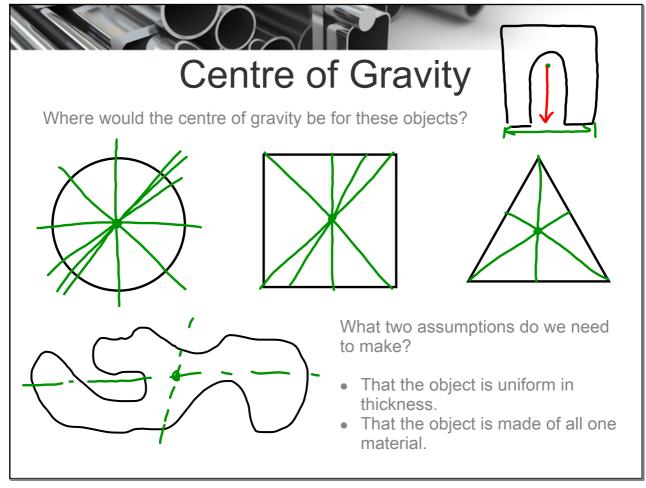
We can define an object by its "centre of gravity."

Centre of Gravity

The spot where you would apply gravity on an object.
The middle of the mass.

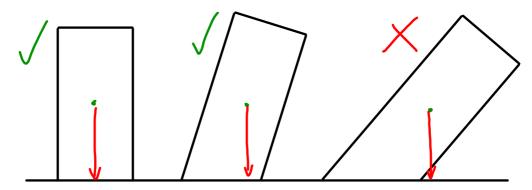
If you cut an object in half through the centre of gravity the mass is equally distributed on both sides.





Centre of Gravity

Below are three free-standing structures, are they stable?



Thrust Line The vertical line that runs downward from an object's centre of gravity, through which force is transferred.

If the thrust line is between the edges of the base, then the structure is stable (assuming no other forces are acting). If the thrust line reaches the ground outside of the base, then the structure is not stable.