## Torque and Center of Mass

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Torque Demonstrator

1/2 inch PVC Sch 40 pipe

Handle diameter= 2.14 cm = 27/32 "



Torque= Force x Lever Arm













In a parallelogram, The center of mass is at the intersection of the two diagonals.

To be stable, the center of mass must lie within the base of support



If I cut the top off the block and redrew the diagonals, the center of mass will move well within the base of support



## Block is 300 grams Mass on top is 100 grams



## Mass taped to bottom is 100 grams

