

# PHYSICS 1

## STUDY GUIDE:

# CENTER OF MASS

### STUDY GUIDE

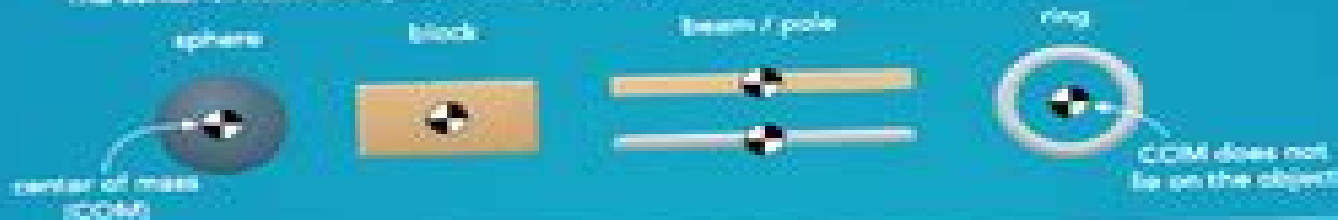
### CENTER OF MASS

#### Center of Mass

- The center of mass (COM) of an object or a system of masses is the mass-weighted average position of an object or a system of masses.
- If an object is symmetrical and has a uniform density, the center of mass is located at the center of the object (the center of the width, length and height of the object).
- If an object is not symmetrical or does not have a uniform density, the center of mass moves closer to areas of the object with more mass.
- The center of mass of an object or a system does not have to be directly on the object and can be located in the empty space near the physical object(s).

Variables		SI Unit
$x$	$x$ position	m
$y$	$y$ position	m
$m$	mass	kg

The center of mass of a symmetrical object with uniform density is located at the center of the object



The center of mass of an asymmetrical object is located closer to areas with more mass



# Mass Study Guide Answers Physics

**Richard Bailey**



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