ROTATION

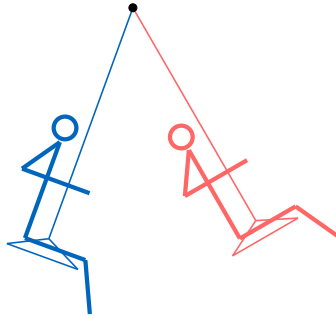## A DEFINITIONS

Discover: Juliette is on the swing. As she swings back and forth, she remains at the same distance from the attachment point. She moves in a circle.
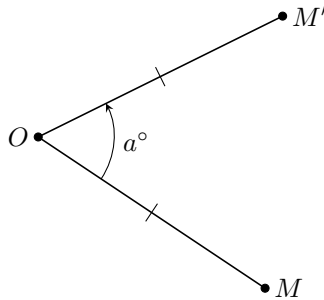

We say that Juliette is **rotating** about the attachment point.

> ### Definition **Rotation of a Point**
> The **rotation** of point M through an angle $a°$ about center O is the point M' such that angle $\angle MOM' = a°$ and $OM = OM'$.
> The rotation can be done in a clockwise $\curvearrowright$ or counterclockwise $\curvearrowleft$ direction.
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> ### Definition **Rotation**
> The **Rotation** of an object through an angle $a°$ about center O is the rotation of all its points.
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