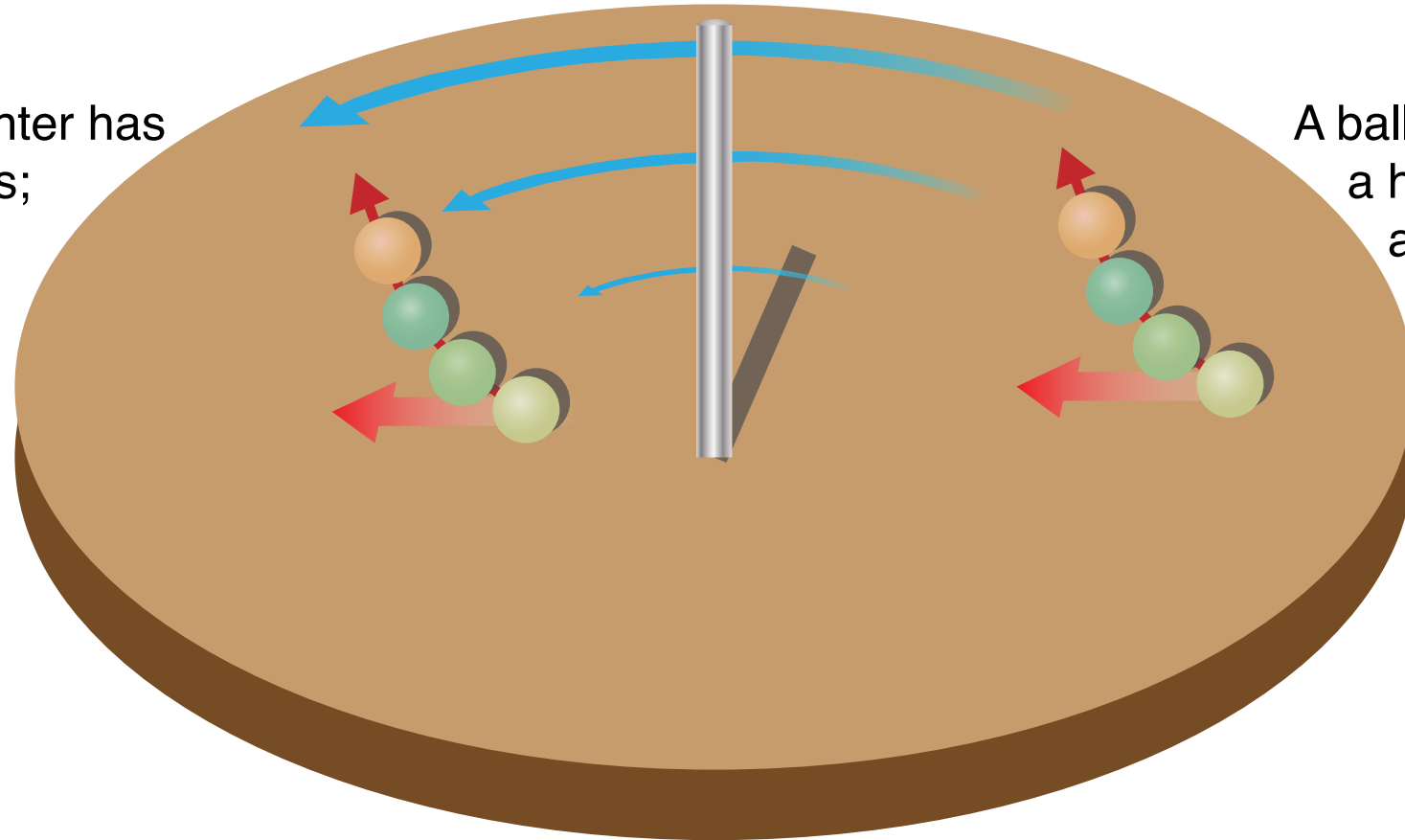


Outer regions rotate faster around the axis than inner regions because they travel farther with each rotation.

A ball that starts near the center has a slow speed around the axis; as it rolls outward it falls behind the rotation of the disk.



A ball that starts near the edge has a high speed around the axis; as it rolls inward it gets ahead of the rotation of the disk.