

## Circular Motion



**Purpose:** To show that an object can have nearly constant speed yet constantly changing velocity and acceleration when moving in a circle under a central force (i.e. the pull of the string).

**Location:** room 136, shelf L4

Swing the ball in a circle at nearly constant speed while holding the string securely. Ask: Is the speed changing? Is the velocity is changing? Is the acceleration changing? (Many will persist in believing that the acceleration is zero because the ball is not “speeding up”.)

Caution: Be aware of location of overhead lighting and hold the string securely.