

Name: _____

Uniform Circular Motion
Pre-Lab
(Due at the beginning of lab period.)

1. If your lecture class has not yet reached angular/rotational motion, please read ahead in your textbook so that you are familiar with the concepts of centripetal acceleration, angular displacement, angular velocity, and angular acceleration.

What are the standard (SI) units used for each of these (underlined) quantities?

2. The Earth travels in a (nearly) circular orbit around the Sun. First, what force is supplying the necessary centripetal acceleration to the Earth to cause its circular motion? Second, given what you know about the Earth's orbit (i.e., its period, etc.), calculate the Earth's *angular* velocity around the Sun.