

Lab, Rotation

Name _____ Period _____

Purpose: To investigate the properties of Rotation.

Demo: The Foucault Pendulum shows that the earth rotates because the pendulum's plane of vibration changeth not.

Observations:

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Do you really believe in Physics? Face the kilogram mass that is doing pendulum action.

Describe the result.

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GRYOS: Describe the result of each of these experiences. **WARNING:** Do NOT stop the wheel on the floor or other object. It leaves rubber marks!

..... **Twisting the spinning wheel with both hands.**

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..... **Holding wheel straight out and raising and lowering it.**

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..... Precession on a stool with the wheel in both hands. **WARNING!** The stool tips over easily.
(We only have one, so don't bust it.)

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..... Electric Gyro in a box. WOW!

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ROTATIONAL INERTIA:

Spinning with masses on the stool. **WARNING!** The stool tips over easily. (We only have one, so don't bust it.)

..... With outstretched arms-- bring 'em IN.

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..... With instretched arms-- take 'em OUT.

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The Grand Critique of Rotation:

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