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Vocabulary Mini Lesson Plan

Content Area: Technology Education- Transportation Systems

Topic: Guidance and Mobility in Space

Word to be taught: Gyroscope

Objective:

Given a subjective written exam, the students will be able to describe how the physics of a gyroscope relates to functions of bicycling with 100 percent accuracy.

Given an objective exam, the students will be able to list five practical applications of a gyroscope with no more than one error.

Strategy Used: Physical Demonstration

Intelligences Emphasized:

Visual/Spacial; Kinesthetic; Mathematical/Logical; Naturalist

Hook:

This word is useful in order to understand how transportation is possible without the use of surfaces to push off of or through the use of occasional combustion. It also helps to understand how balance can be acquired without seeing it.

Procedures:

Use a demonstration that puts a bicycle wheel in motion, and allows students to experience the forces acting upon it, through the use of a turn table or quickly changing direction.

Closure:

Students will be told that in their readings, a gyroscope affects the mobility of the Hubble Space Telescope as well as other satellites in orbit.

Materials Needed:

Bicycle Wheel with Handles

Turn Table