



Nature By Design

Outdoor Education Adventures and Expeditionary Learning Programs

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GETTIN' PHYSICAL

“GETTIN’ PHYSICAL” is designed for students in grades 9-10. In this program students focus on topics related to the study of applied physical science. The modules are designed to improve student understanding of force, motion and energy, and to provide opportunities for problem solving by building models and testing hypotheses. In the module, “Design-A-Coaster and “Mousetrap Racer” students focus on the relationship of force and motion. Aerodynamics and flight are examined in the module “Into the Wild Blue Yonder.” Students investigate gravitational attraction in “Safe Landing.” Other modules include “Sinkers and Floaters,” “Don’t Get Stuck,” “The Light Fantastic” and “What’s That?”

Planned Activities*:

Mousetrap Car Derby
Design-A-Coaster
Foil Boat Regatta
Spool Tractor Race
Leoni Air Races

Leoni Meadows Train Lab
Stomp Rocket Launch
Balloon Rocket Race
Hover Craft Contest
Leoni Meadows Hay Ride

MODULES:

“Mousetrap Racer” - Focuses on relationship of force and motion.
“Design-A-Coaster” – Investigates the forces at work in roller coasters.
“Into the Wild Blue Yonder” - Examines flight and aerodynamics.
“Safe Landing” - Examines gravitational attraction.
“Don’t Get Stuck” - Looks at friction and its relationship to movement.
“Sinkers and Floaters” - Investigates density.
“The Light Fantastic” - Investigates the behavior of light.
“What’s That?” - Focuses on the behavior of sound.

LOCATION:

Leoni Meadows Camp, Grizzly Flat, CA

NEEDS:

1 chaperone/6 students
1 medical supervisor (basic first aid)

*Based on availability.

