

Family Physics Night

PROGRAM

14 Great Activities

K-2 Activities

- Activity #1 - The Great Rolling Race
- Activity # 2 - Discover Density: Liquid Layers
- Activity #3 - Float A Boat
- Activity #4 - Musical Water Glasses
- Activity #5 - Hello, Can You Hear Me?
- Activity #6 - Changing Colors
- Activity #7 - Rock & Roll: Shoebox Guitars
- Activity #8 - Magnetic Attraction!



Grade 3-5 Activities

- Activity #1 Discover Density: Liquid Layers
- Activity #2 - Pendulum Swing
- Activity #3 - Launchers & Projectiles
- Activity #4 - The Great Rolling Race
- Activity # 5 Teeter Totter Torque: A Balancing Act
- Activity #6 - Amazing Air Tricks

Family Physics Night

A night of fun for K-5 students and families

CLK Elementary School

Tuesday, February 28, 2006

6:00-7:30 p.m.



First-ever
Family Physics Night

by the

**Michigan Technological University
Society of Physics Students!**



K-2 Activity Stations ~ elem. cafeteria
Gr.3-5 Activity Stations ~ multi-purpose room

Do as many as you can!

14 Great Activities

Conducted by:

*Western Upper Peninsula Center for
Science, Mathematics and Environmental Education*

Funding by:

*CLK Elementary School, Wege Foundation
and the National Science Foundation*



Activity # 1 - K-2



The Great Rolling Race

What determines how fast
an object will roll?

Presented by:
Justin Scholfield & Jamie Bougher

Activity # 2 - K-2

Discover Density: Liquid Layers

Why don't all liquids mix?



Presented by:
Michael Gussert & Jennifer Huyck

Activity # 3 - K-2

Float A Boat

Why do some objects sink?

Presented by:
Jessica Frew & Paul Sneller



Notes:

What Is Physics?

Physics is the science of matter and energy and their interactions. Physics includes the study of sound, vision (optics), heat, cold, electro-magnetism, as well as, atomic, nuclear, particle, and plasma physics. Physics also includes the study of forces on matter, and the design, construction, and use of machinery or mechanical structures and devices.

Activity # 4 - Gr. 3-5



The Great Rolling Race

What determines how fast
an object will roll?

Presented by: Michael Aden



Activity # 4 - K-2

Musical Water Glasses

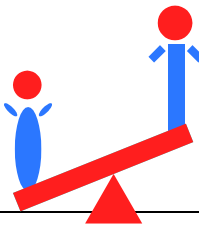
Can you play a song using glasses of water? Why?

Presented by:
Matt Davenport & Dan Cordell

Activity # 5 - Gr. 3-5

**Teeter Totter Torque:
A Balancing Act**

Solve the weight challenge.



Presented by: Nolen Ryba

Activity # 5 - K-2

Hello, Can You Hear Me?

Through which material does sound travel best:
plastic, paper, styrofoam?

Presented by:
Emily Moran & Vic Muzzin

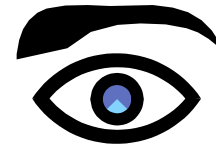


Activity # 6 - Gr. 3-5



Amazing Air Tricks
(Bernoulli's Principle)

Presented by: Brian Husted



Activity # 6 - K-2

Changing Colors

What determines the color that we see?

Presented by:
Matt Mosher & Aaron DeGabriele



Activity # 7 - K-2

Rock & Roll: Shoebox Guitars

How does tension affect sound?

Presented by: Eric Conrad

Activity # 1 - Gr. 3-5

Discover Density: Liquid Layers

Why don't all liquids mix?

Presented by: Jeffrey Driscoll



Activity # 8 - K-2

Magnetic Attraction!

Are all objects attracted to magnets?
Are all metals attracted to magnets?

Presented by:
Katie Schalk & Joe Grochowski



Activity # 2 - Gr. 3-5

Pendulum Swing

Presented by: Jake Deschaine



Are we having fun yet?



Activity # 3 - Gr. 3-5

Launchers & Projectiles

What will make a projectile travel furthest?

Presented by: Adam Deconinick

Did You Enjoy Family Physics Night?

Please complete and drop in the evaluation box.

1. Was Family Physics Night an enjoyable experience for you and your family? YES NO
Comments: _____

2. Were the activities age-appropriate for your children? _____

3. How could we make the next Family Physics Night even better? _____

Number of Children Attending _____
Grades of Children Attending _____

Thanks for coming tonite!

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