Phun?  

• Yes, Intellectual phun!  

Party?  

Sure! for your brain!
Teaching Tools

• Sensor Technology - let them play with the toys a little bit.
• Paul Hewitt and Alan Van Heuvelen - Worksheets.
• Use movies, TV shows, cartoons, You tube and personal videos.
• Analogies - humanize physics.
• Cool Demonstrations.
Phun Labs

• Ice cream lab-they make it and eat it too.
• Physics of musical instruments-have small concert-let them show off their talents.
• Physics of playground equipment.
• Physics of cooking.
Phun Projects

- Roller coaster loop
- Newton’s cradle
- Base ball pitching machine
- Carom board
Physics Club

• Field trip-MGOT.
• Out reach activity as a service project.
• Tail gate party-Everything is relative!
• Fund raiser activity-Food cookout.
• TBBT fan club
• Bezinga!!
Rocketry Class

• Beginning—an easy A
• Advanced—builds employable skills
• Tee Shirts
Outreach Activity

• Demonstrations in junior high school.
• Demonstrations at county fair.
• For children in Science City program.
• Hands on physics day for community, boy scouts.
Undergraduate Research

- Summer internships at National labs.
- Presentations at conference in Houston, Texas.
Robotics Class
Assessment

• Open book, open notes tests - test on application and problem solving skills and not memory - take pressure off their shoulders.

• Group quizzes - let them talk, discuss, verbalize, peer tutor.

• Paul Hewitt Questions - get them confused a little.

• Ranking exercises - critical thinking, tease their brains.
Awards

• Outstanding student in College physics class.
• Outstanding student in University physics class.
• Outstanding female student majoring in physics.
Give Them Exposure

• Have a show/display case in the hallway with fun things filled in it.
• Display their pictures, awards, rockets in the show/display case.
• Get them in the Newspaper.
Some Key Points

- Have no rigid agenda. Be flexible-sky is not going fall or it’s not end of the world attitude.
- Ride on their wave. Less is more.
- Be spontaneous! Unpredictable!
- Let your enthusiasm/passion rub on them.
- Look at physics through their glasses-This is very important for conceptual physics class.
- Loosen up, be a little crazy at times!
- Don’t expect everything to happen all the times.
- Offer Free Food!
Make use of Quotes!

• Everything is physics!
• It’s not magic, it is physics!
• Physics is a party for your brain!
A BIG THANK YOU!

- AAPT
- EAC
- And All of You!