Oak Park High School’s Enterprise Team

Knight Tronics
Where minds are Connected
The Knight Tronics Team
Phase I: Electromagnetics

AMPLIFYING RADIO SIGNALS

I CAN’T BELIEVE MY EARS
Learning our kits & Team
Amplifying our voices and wiring in a smart phone.
Using solenoids to send signals
Using fiber optics to send our voices across the room.
Learning about Resonance & Frequency
How Resonance Affects other objects
Energy transfer From a moving object to another
Cell Phone tower Patterns
Which patterns allow the most coverage at the lowest cost
The Honey Bee Had it right all along!
How Can a $10.00 Walkie Talkie be faster than my Smart Phone?

I Got SOO Ripped Off
Sawing a laser across a solar cell shows how bar codes are read
Phase II: Electrical Circuits
Students build and draw schematics for over 30 Circuits.
Phase III: Soldering
Students start out with a simple circuit: “Blinky”
Everyone Gets to Solder
Circuit II: Sound Activated
Everyone needs a helping hand, but watch the nails!
Finally Everyone Must Read the schematic and solder their own circuit
Determine the correct resistors and pass inspections
Then test to see if it works
Phase IV: Google App Inventor

Welcome to App Inventor!

App Inventor Beta
Students build programs by clicking & dragging different areas & zones
The first App they built was “Hello Purr”