Past Examples of Midway Physics Day Demonstrations

Jumping Rings

Energizing a magnetic coil causes aluminum rings to jump high into the air. This is an example of Magnetic Induction.

Old Apparatus New Apparatus

Magnetic Braking

Another magnetic induction example. This shows the principle used to stop the Drop Zone ride.

Copper Tube Aluminum Tube Nuts / Magnets Identical Drop Set

Liquid Nitrogen (large dewar)

Fun stuff to do with liquid nitrogen.

Small Dewar

Stuff to Freeze (balloons, flowers, etc..)

Pressure Vessel

Gloves

Pliers

Metal Coat Hangers

Polarizers

Illustrates how polarized sunglasses work

Lightbulb w/ Crank

Electric generator.

Magnet w/ paperclips and string

A big magnet to play with and see visual representation of magnetic fields.

Singing Rods

An example of a resonance phenomenon

Aluminum Singing Rods Rosin

Wave Springs

Can be used to illustrate travelling waves and standing waves (resonance.)

Basketball/Tennis Ball Collision

Conservation of linear momentum

Rotating Platform

Illustrates conservation of angular momentum
Weights
Bicycle Wheels with Handles

Accelerometers

Can be used to take measurements on Fair rides

Fanny Packs

Vests

PASCO Handheld Data Acquisition Laptops w/ Data Studio Installed USB cables

Extra AA Batteries

Extension Cords, Power Strips, Tools, Ball Pump