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