

- Open file U2019.cmb1 using Logger Pro.
- On page 3 create a graph of force versus position with a curve fit of the form $F = Ax + Bx^3$.
(Use “Define function” in Curve Fit tools.)
- Use calculus to determine an appropriate potential energy function based on force measurements.
- Under the Data menu use New Calculated Column to create columns showing: kinetic energy, potential energy, and total energy.
- Add a page to the file and create a graph showing all three energy values.
- Print both graphs. On the force graph show the work detailing how the potential energy function was determined.

Cart with WDSS
Force Sensor
measures force
from springs



CBR
Motion
Detector

