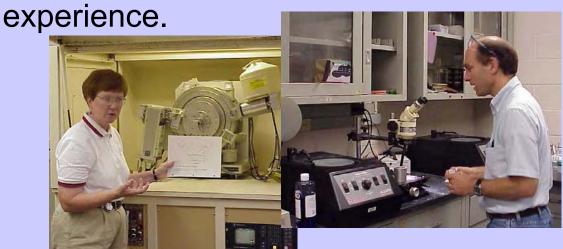
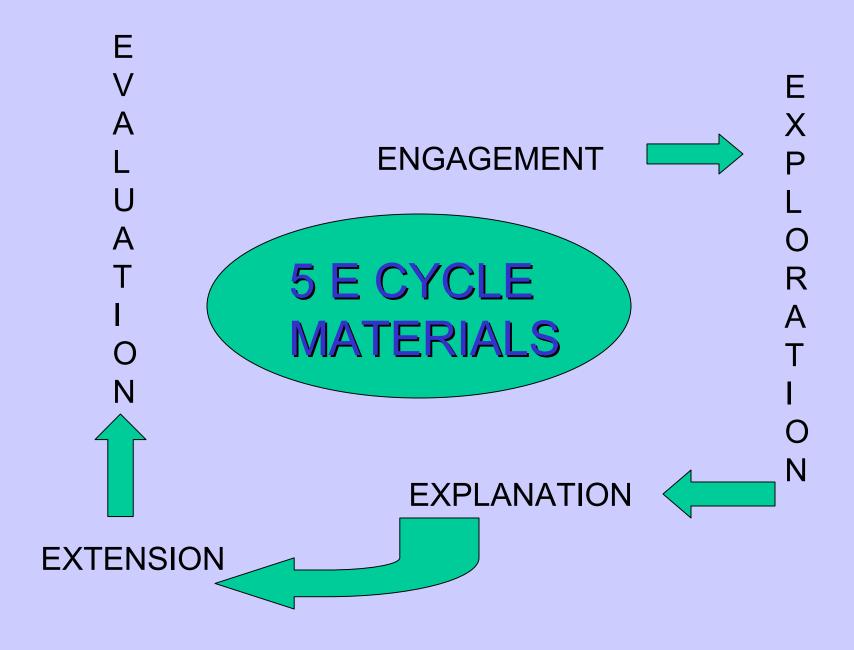


The project to be presented represents a small portion of what was gained from this







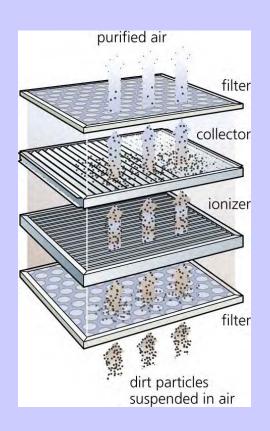


ELECTROSTATIC FORCES

ENGAGEMENTMoving a board with a balloon

EXTENSION- Make a brochure to explain your new product that uses one of the following processes:

- *electrophotography,
- *electrostatic precipitator,
- *electrostatic spray painting



EXPLORATION-Given the triboelectric series, students will create a demo for the class

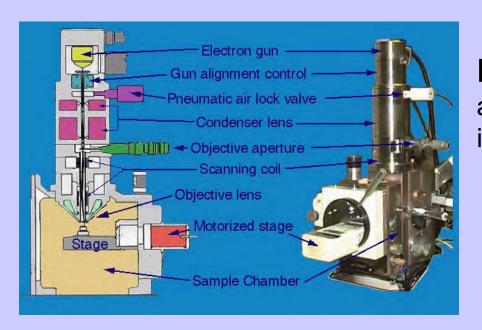
ENGAGEMENT:

-Flame test demo, use spectroscope -Project the spectrum with overhead projector

EXPLORATION:

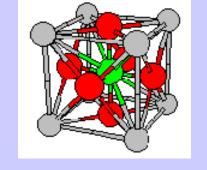
- -Making a "log" soaked with different solutions, identify ions present
- -Diffraction lab





EXTENSION: Electron microscopes and viewing electro micrographs on the internet

ENGAGEMENT: create a fettuccini structure that can support their book 5 cm off the table





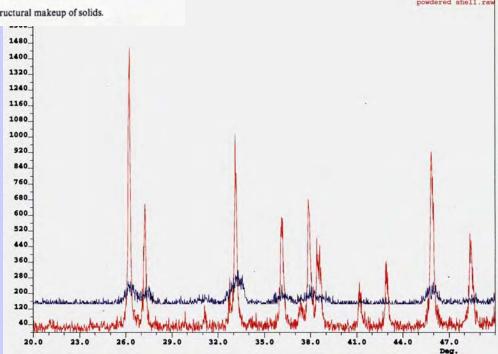
EXPLORATION: draw pictures of crystals, put in order of strength



EXTENSION:

- -X-ray diffraction
- -compare graphite to diamond crystal structure





X-ray
Diffraction

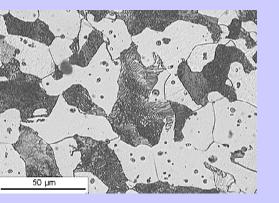


ENGAGE: compare elasticity of different metals

METALS & their "sea of electrons"

EXPLORATION:

Design an experiment to -see if elasticity is related to thermal conductivity -see if "elasticity ranking" is the same when using rods of a smaller size



Electromicrograph of low carbon steel

EXTENSION: Use a website to compare "normal" low carbon steel to that with ductile fracture, along with a lab that models the fracturing process

