IA Ideas:

CO₂ Probes:
- Yeast
- Germinating Plants
- Germinating Seeds

O₂ Probes:
- Green Plant

Plant Experiments:
Changing the Light
- Color
- Intensity
  - Wattage
  - Distance
- Type of light LED, Incandescent, Fluorescent
- Time

Changing the Temperature

Changing the Soil
- Salt Concentrations
- Sugar Concentrations
- Fertilizer Concentration
- Types of Fertilizer
  - Organic
  - Man-Made
- Pollutants – oil, gas, other chemicals

Microwave Seeds
- Vary the time of exposure

Osmolarity Comparisons
Organic vs Inorganic

Different species of similar plants
- Red Potato, Yukon Gold Potato, Russet Potato
- Cauliflower, broccoli, Kale, Cabbage

Chromatography Comparisons

Environmental Experiments:
Comparing the Biodiversity of Two Different Areas
- Grass Fields
  - Woodward Park, Lost Lake Park, Roeding Park,
- Lakeshores
  - Millerton, Pine Flat, Bass Lake, Shaver Lake, Avocado Lake
- Stream Sides
  - Kings River/San Joaquin River
- Coastal
  - Santa Cruz, Monterey, Pismo

Comparing Rainfall Data

pH of soils

Data Base Research:
Temperature and Disease
Rainfall and Insects (Bark Beetle?)

Simulations:
- [http://virtuallabs.nmsu.edu/](http://virtuallabs.nmsu.edu/)
- [http://www.mhhe.com/biosci/genbio/virtual_labs_2K8/](http://www.mhhe.com/biosci/genbio/virtual_labs_2K8/)
- [http://www.edinformatics.com/il/il_bio.htm](http://www.edinformatics.com/il/il_bio.htm)