**LEGO Mindstorms Labs**

* 5 laptops
  + Mouse
  + Power Adapter
* 2 Power Strips
* 1 Extension Cord
* 1 Book *Instant LEGO Mindstorms EV3* by Gary Garber
* 2 LEGO construction guide books
* 5 LEGO Mindstorm Kits
  + One basic Robot Educator (built)
  + Four unassembled Robot Kits
  + Plastic tub
    - Technics (see laminated insert for numbers and pieces)
    - Brick, Motors (3), Sensors (5)
    - Charger
    - USB cable
    - Connector cables (see insert for number and lengths)
* Guidelines

**Quick Start Guide**

* Open LEGO Mindstorms Software
  + User Guide
  + Robot Educator (basic model)
    - Takes approximately 45 minutes – 1 hour to build
    - Building Instructions (same as booklet included in lab)
  + Four other robots (Gyro Boy, Color Sorter, Puppy, Robot Arm H25)
    - Model Core Set
    - Model Instructions
      * Demo video
      * Instructions
      * Program
    - Each takes approximately 2.5 to 3 hours to build
* Software has all build and programming instructions included

**Guidelines**

* Check the inventory list to make sure all of the items are present
* Charge the Bricks (page #)
  + Approximately 3-4 hours
  + Fully charged Bricks (or new AA batteries) provides approximately 4 hours of use
* Library provides 6AA batteries per brick (as needed) for backup power (see page…)
* Library provides USB flash drive or microSD cards for saving programs
  + When rebooted, all changes are erased from laptop
* Plug laptops into power when using
* Clean programs off the Brick (see “Removing programs from the Brick” in the Mindstorms Software document)
* Disassemble 4 robots completely and put pieces back in appropriate places (see guides in tub)
* Leave one Basic Educator Robot assembled
  + Do **NOT** use teeth to pull pieces apart
  + To separate pegs or axles use a spare axle in the kit to push the stubborn peg or axle out
* Report any problems with the lab using the form on the Programming page (<http://programming.scls.info/mobile-maker-kits>)
* Libraries will responsible for the cost of replacing major components
  + Brick = $180.00
  + Rechargeable Battery - $79.95
  + Large Motor = $24.95
  + Medium Motor = $19.95
  + Sensor = $19.95 – $35.95
* Libraries may borrow **one** Mindstorm Lab (5 robot kits) at a time
* Loan period is a maximum of ten (10) days
  + Delivery time will be added on to either side of the reservation
* Reservations are taken on a first come/first served basis and are not confirmed until you receive a confirmation email