**Getting a Raspberry Pi Up & Running**

1. Build SD card using WinDiskImager or Etcher
2. Put the Raspberry Pi board into the case and install the SD card.
3. Hookup keyboard and mouse to USB ports
4. Hookup monitor to HDMI connector on the Pi using an HDMI cable
5. Hookup Ethernet cable to the Ethernet connector on the Pi
6. Hookup the power cable micro-USB connector to the micro-USB connector on the Pi
7. Plug the ‘A’ end of the USB cable to the USB connector on the wall plug
8. Plug the wall plug into the wall power outlet and watch the Pi boot
9. On first boot, on new versions of the operating system the file system will automatically be configured to expand to the size of your SD card and a configuration wizard will start and allow you to configure your Raspberry Pi for your location. It will also download any updates to the operating system. If you wish to do this yourself, you can use

raspi-config.

1. To start raspi-config, open the Terminal and type sudo raspi-config.
   1. Enable Boot to Desktop (item 3)
      1. Hit Enter
      2. Choose “Desktop login as user pi”
      3. Hit Enter and you will be back to the raspi-config menu
   2. Internationalization options (item 4)
      1. Hit Enter
      2. Select item I3 Change Keyboard Layout
      3. A little wait here to load in all of the keyboard options
      4. Select Generic 101-key PC
      5. Select Other
      6. Select English (US)
      7. Select English (US) (just above Cherokee)
      8. Use all default values for the rest of the screens until you get back to the original screen
      9. A little wait while keyboard mapping is setup
   3. Advanced Options (Item 7)
      1. Select Overscan (Item A2)
      2. Enable Overscan - No
      3. This is important if you have a wide format monitor and want to play Minecraft
      4. Select OK and then Finish and your will reboot to desktop.
2. Now that we have our Pi successfully booted, we would like to add additional software. Will be using apt-get (a Linux package handler) to install software.
3. Open LXTerminal by double-clicking on the desktop shortcut.
4. Issue the following commands and follow the onscreen prompts:
   1. sudo apt-get update
   2. sudo apt-get install tuxmath
   3. sudo apt-get install tuxtype
   4. sudo apt-get install tuxpaint
   5. sudo apt-get install gcompris
   6. sudo apt-get install gimp
   7. sudo apt-get install inkscape
   8. sudo apt-get install gbrainy
   9. sudo apt-get install arduino
   10. sudo apt-get install vlc
   11. sudo apt-get install aaudacity
   12. curl https://processing.org/download/install-arm.sh | sudo sh
5. Now that we have added the software, make sure everything works by starting it from the menu.