**Andy TO DO**

**July 18, 2010**

**Have fun!**

**Materials/Supplies:**

Done by:

**Classroom**:

* **Make sure we have 6 good laptops (won’t die when not plugged in, etc.)**
  + **If needed, install mindstorms on newer laptops**
  + **Done by Day 3 night**
* **Install mindstorms & arduino on 5 laptops**
  + **During class Day 5**
* **take home gradient pad and meteorlight ball**
  + Done by: End Day 1

**Copies**:

* **AI worksheet (x12) (have this already?)**
  + **Turing test**
  + **Due Day 8 night**
* **12x copies of Quiz (see Google Doc)**
  + **Done by Day 8 night**
* **12x copies of simple machines worksheet**
  + **Done by Friday AM**
* **walking worksheet**
  + **cover gaits, center of gravity**
  + **examples of 4, 6 legs**

**Done by Day 3 night**

* **General Robotics**
  + **Make sure presents info**
  + **Add questions (on back)**
  + **Make printable, photocopy**

**\*\*Done by SUNDAY NIGHT\*\* COMPLETE**

* **Task List /Algorithms (12 copies)**
  + **Definition, examples**
  + **A few question (how to make a sandwich, etc.)**
  + **High level vs. detailed**
  + **Need to make photocopies (x12)**
  + **Done by Day 1 night**
* **Information Flow (see google doc - poster already made) (x12)**
  + **add 3 - 4 questions on back**

**Need to make photocopies (x12)**

* + **Done by Day 1 night**
* **Coloring sheets (x12)**
  + **Done by Day 1 night**

**Research:**

* **Andy guest speaker**
  + **Iceland-Bot**
  + **Try out skype (firewall, etc.)**
  + **Get/find link to this project**
    - **By Day 4 night**

**By Day 1 night**

**Waiting on approval from NASA**

* **Investigate Arduino**
  + **Brainstorm (how to integrate)**
  + **Get solid on projects, capabilities**
  + **C language**
    - **Development environment**
      * **Free environment from arduino**
      * **Console**
      * **Look at source code**
      * **Think about how this weaves in to themes**
      * **Test everything twice ON ACTUAL LAPTOPS**
    - **Think about tutorials (maybe just base off of python tutorial**
  + **Test all hardware projects**

**By end weekend 1**

* **Investigate Gradient following and Ball finding (take them home)**
  + **Web**
  + **Try solving selves**

**More info, decide when to do, by end weekend 1**

* **Brainstorm on projects you find fun/cool/useful**
* **How to handle safety with circuits.**
* **Circuits lesson/worksheet**
  + **Done by end weekend 1**
* **Go through 5 interesting arduino projects from kit**
  + **Done by end weekend 1**
* **Test and Run Gradient-Following program**
  + **Done by end weekend 1**
* **~~Think about cool project using robotic arm and radar:~~**
  + **~~http://nxtprograms.com/radar/index.html~~**
  + **~~http://nxtprograms.com/robot\_arm/index.html~~**

**~~For example, telling the arm where to look for a ball, and completing a similar task as last time.~~**

**~~As a bonus, we could try ball-throwing at a target that the radar finds.~~**

* + **~~Done by end weekend 1~~**

**Other**:

Continue to take notes (specific/detailed as possible) & enter into Google Docs

**Submit post-assessment by Monday evening**

THANKS!!