1. **Research**
   1. Microprocessor
      1. Running Voltage
      2. Current Draw
      3. GPIO
      4. USB
   2. Power
      1. DC-DC converter
      2. Battery
         1. LiPo
         2. Alkaline
         3. Li-ion
   3. CMOS Gates
      1. Use CMOS logic chips
      2. Use transistors
2. **Design**
   1. Software
      1. LCD
         1. Choose SPI vs. I2C
      2. Define Output signals for puzzles
   2. UI
      1. Computer
      2. On-Board
   3. CMOS Gates
   4. Power
      1. Design DC-DC converter
         1. Order DC-DC converter components
      2. Choose battery that meets specification
         1. Order battery
   5. Mechanical
      1. Choose material
      2. Assembly process
      3. Choose size
   6. Microprocessor
      1. Choose processor
      2. Order processor
3. **Prototype**
   1. Software
   2. CMOS Gates
   3. Power
4. **Build**
   1. Software
   2. CMOS Gates
   3. Power
   4. Mechanical
   5. UI
5. **Test**
   1. Hardware
   2. Software
   3. Usability
6. **Redesign**
   1. Hardware
   2. Software