Setup

* Set lcd display window size (lcd.begin(16, 2);)
* Set all pin modes (pinMode(pin #, OUTPUT/INPUT/ETC)

Within loop

* If statement to see if game is active (set by pushing start button, reset by game ending)
* If statement to see if game is waiting on an action, if no then Random int or something picks action (saved as variable), Audio plays and timer starts as well as setting game waiting tot true.
* If statement checking if time is up or for any input
  + When input detected compare with action variable
    - Success
      * Update Score on LCD
      * Make not waiting for input.
      * Lower Allowed time for next input by lil
      * Also end game if at max score (set game active variable to false)
    - Failure
      * End game
  + When time is up
    - End game show score (Want to ask if they want replay feature if so, add like a “play again?” on the LCD then use start button again to reset (would need to reset score variable upon push)

Specific things

* Timer
  + Not sure how to do need to do more research.
  + When game starts set startTime variable to millis() which is the number of ms since powered on
  + In loop use millis() to compare to startTime
    - If startTime + Allowed time for input > millis() time up
    - If action done successfully update startTime to the current millis()
* LCD
  + Uses an easy-to-use software package
  + Feel like the only thing is picking what we want to have on it
  + Pregame have some intro message or title
  + During game show score on bottom and current action on top?
  + Functions
    - lcd.print(“Text”) //Max of 16
    - lcd.clear()
    - lcd.setCursor(0,1)
    - lcd.scrollDisplayRight() //Also does left (can be used if we want to center text)
* Power Switch
  + No software
* Start Button
  + Read in as digital using “digitalRead(pin #)”
  + Used for initial start (can add if statement that checks if a game is active to deactivate button)
* "Snap” Button
  + Read in as digital using “digitalRead(pin #)”
* Accelerometer
  + Read in as analog using “analogRead(pin #)”
  + Need to find average acceleration of a football throw to set as threshold.
* Rotary Encoder
  + Know very little about, need to expand research.