**List of Things to Measure**

**Paradigm:** Trial Initiated Reward (Reward in Middle Port + Timeout after 5 seconds)

**Date:** 8/19/19

Main Parameters:

1. # of events
2. Latency between events
3. # of Omitted / Valid / Invalid Trials
4. **Number of Pokes during Trial Window (# of Pokes before Trial Initiation)**

* Basically, how many INCORRECT pokes they make (L/R poke) before correctly initiating the trial in the Middle Port
* HOW TO MEASURE: Event Codes – x529 (x = 7, 8, 9) (Trial Window Counter Value)

1. **Number of Pokes during ITI window**

* HOW TO MEASURE: Event Codes – x519 (x = 7, 8, 9) (ITI window Counter Value)

1. **Number of Total Valid Pokes**

* HOW TO MEASURE: Count the # of solenoids dispensed (only valid poke will trigger reward)

1. **Number of Total Invalid Pokes (When Left Port ON, poke in Middle/Right Port)**

* HOW TO MEASURE: TOTAL TRIALS - # of VALID POKES

1. **Number of Omitted Trials (after 5 seconds, LED times out)**

* HOW TO MEASURE: Count 7540 (left) and 9540 (right)

1. **Number of Trials Initiated**

* HOW TO MEASURE: count # of Trial Start Time
* NOTE: VALID POKES + INVALID POKES = TOTAL TRIALS

1. **Latency of Trial Initiation (Trial End Time – Trial Start Time)**

* HOW TO MEASURE: Event Code (5520 – 5521)

1. **Latency between Valid Trial Start and Trial End (Correct/Incorrect Poke Time – Valid Trial Start Time)**

* Valid LED On 🡪 Valid LED Off
* Valid LED On 🡪 Invalid LED Off (incorrect Port)
* HOW TO MEASURE: pick out the indexes and subtract
* (Event Codes: (7160 OR 7170) – 7171) )