

Syllabus – Integrating Technology and Inquiry, CSUMB 15–July–2019

Text: Arduino with LightBox Shield Tutorial 0719.pdf

Monday

Assembly

LightBoxAssemblyGuide.pdf

Exercise 1 – Reset sequence

Study Questions 1, 2

Exercise 2 – Subroutines

Study Questions 3

Tuesday

Exercise 3 – analogRead()

Study Questions 4

Exercise 4 – delay() function

Exercise 5 – Potentiometer

Study Questions 5

Exercise 6 – PWM

Wednesday

Exercise 7 – Binary Conversion

Study Questions 6

Exercise 8 – Push Button

Study Questions 7

Exercise 9 – Debounce

Thursday

Exercise 10 – “Pong”

Friday

Exercise 11 – LightBox