

# Sheet1

Pin Special Fn ->					SDA	SCL	Serial Mon		Int0	Int 1; NO ~		~	~			NO ~	NO ~	NO ~		
Component \ Pin	A0	A1	A2	A3	A4	A5	D0	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13
(Serial Monitor)							(Serial)													
Joystick	IN	IN																		
LCD w/ I2C (*1)					I2C	I2C														
Servo (*2)											OUT									
Passive Buzzer (*3)														OUT						
Shift Register (*4)															OUT	OUT	OUT			
RGB LED (*5)																		OUT	OUT	OUT
Push Button (*6)									IN, Int											

## Notes

(\*1) I2C Addr = 0x27; LCD Display has 16 cols x 2 rows

(\*2) Use of Servo library, disables analogWrite() (PWM) on pins 9 and 10

(\*3) Use of tone() fn will interfere with PWM output on pins 3 and 11

(\*4) Use **Positive** Logic, 1=on, 0=off; Shift Reg Outputs **Provide** power to LEDs

(\*5) Use **Positive** Logic, 1=on, 0=off; RGB LED is **Common Cathode**

(\*6) Use Arduino INPUT\_PULLUP; Switch Input, 1=open, 0=closed

## References

(\*2) <https://www.arduino.cc/reference/en/libraries/servo/>

(\*3) <https://www.arduino.cc/reference/en/language/functions/advanced-io/tone/>

(\*6) <https://www.arduino.cc/reference/en/language/variables/constants/inputoutputpullup/>