ATmega328 Pin Mapping

Arduino function		_	Arduino function
reset	(PCINT14/RESET) PC6	28 PC5 (ADC5/SCL/PCINT13)	analog input 5
digital pin 0 (RX)	(PCINT16/RXD) PD0 □2	27 PC4 (ADC4/SDA/PCINT12)	analog input 4
digital pin 1 (TX)	(PCINT17/TXD) PD1 [3	26 PC3 (ADC3/PCINT11)	analog input 3
digital pin 2	(PCINT18/INT0) PD2 ☐ 4	≈ PC2 (ADC2/PCINT10)	analog input 2
digital pin 3 (PWM)	(PCINT19/OC2B/INT1) PD3 5	24 PC1 (ADC1/PCINT9)	analog input 1
digital pin 4	(PCINT20/XCK/T0) PD4 □ 6	23 PC0 (ADC0/PCINT8)	analog input 0
VCC	vcc 🗖 7	22 GND	GND
GND	GND□	21 AREF	analog reference
crystal	(PCINT6/XTAL1/TOSC1) PB6 0	≫ AVCC	VCC
crystal	(PCINT7/XTAL2/TOSC2) PB7 10	19 PB5 (SCK/PCINT5)	digital pin 13
digital pin 5 (PWM)	(PCINT21/OC0B/T1) PD5 ☐ 11	18 PB4 (MISO/PCINT4)	digital pin 12
digital pin 6 (PWM)	(PCINT22/OC0A/AIN0) PD6 12	17 PB3 (MOSI/OC2A/PCINT3)	digital pin 11 (PWM)
digital pin 7	(PCINT23/AIN1) PD7 ☐ 13	16 PB2 (SS/OC1B/PCINT2)	digital pin 10 (PWM)
digital pin 8	(PCINTO/CLKO/ICP1) PB0 ☐ 14	15 PB1 (OC1A/PCINT1)	digital pin 9 (PWM)

Degital Pins 11, 12 & 13 are used by the ICSP header for MISO, MOSI, SCK connections (Atmega 168 pins 17, 18 & 19). Avoid low-impedance loads on these pins when using the ICSP header.

Alls pinouts as seen from above on an electronics circuit.