

Arduino

Digital Input and/or Output

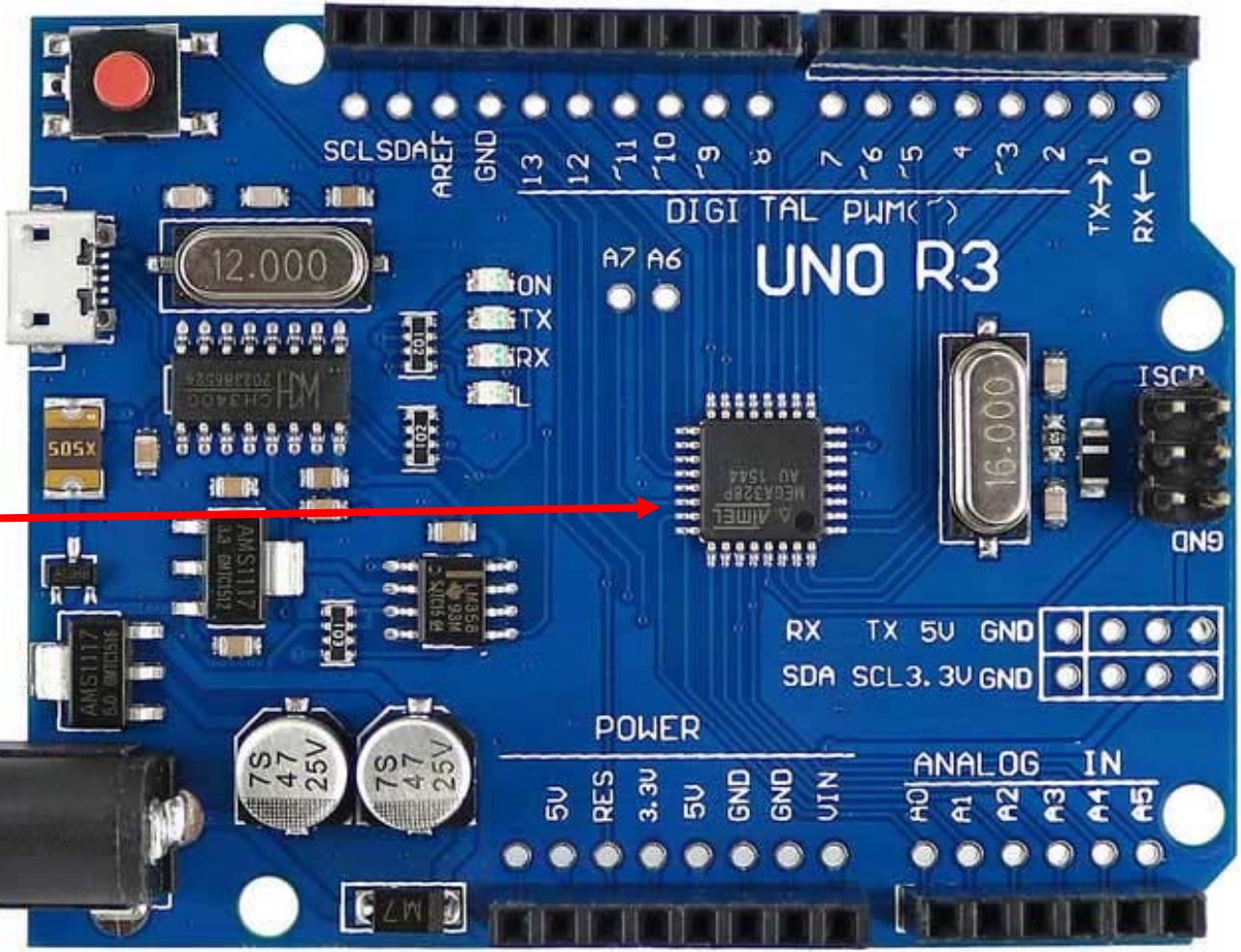
USB Port

Microcontroller Chip

Power Port

Power Pins

Analog Input



**USB Port** – Plug in a USB cable to connect to a computer.

**Power Port** – Plug in a power source such as a battery.

**Microcontroller Chip** – The brains of the Arduino!

**Digital Input and/or Output** – Connector pins. This is where you connect the Arduino to sensors and other devices. Digital can be input (takes in information) or output (sends out information). Digital inputs and outputs can only read or send out two values. Example- Digital can only turn a light ON or OFF. There is no fading or dimming of the light.

**Analog Input** – Connector pins. Analog input (takes in information) are for input only. Analog is for reading power measurements from analog sensors. Digital can only read or send out ON or OFF when it comes to power. Analog can read different measurements. Example- Analog **Output** can gradually dim a light instead of just turning it off.

There are some Digital pins that can function as Analog Output. These are 3,5,6,9,10, and 11.

**Power Pins** – Connect devices to Arduino power source.