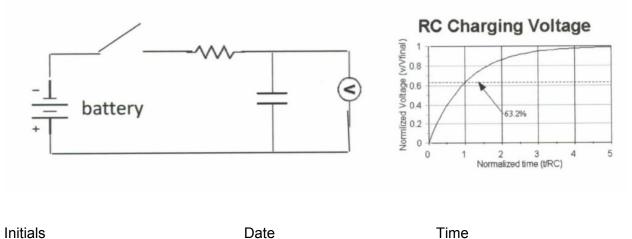
Initials\_\_\_\_\_

Skili Demo 7: An	alog to Digital Cor	iverter	
NAME	GTID	<del> </del>	
Goals:			
Understand what a 1-b	oit analog to digital conve	rter is and how to make one.	
Tools/supplies:			
Teensy various resistors photoresistor potentiometer (optiona within 0.2V in o laptop breadboard USB cable		s can be used as well, as long	ງ as you get to
Background:			
All videos from Skill De Class lecture	emos 1-6		
Detect the volt a stable 0 to a s	age at which the P	red below), using a por PIC changes state from Persa (the point may be uncertainty").  5V  PIC  PIC	

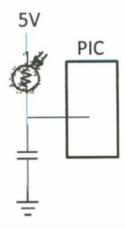
Date\_\_\_\_\_

Time\_\_\_\_\_

 Build an RC circuit (depicted below), such that the voltage reading on the voltmeter reaches full voltage 5 seconds after the switch is closed. Note the diagram of voltage versus time in an RC circuit.



3. Build an RC circuit (depicted below), which is able to distinguish three states of a light using a photoresistor (i.e., determine how long it takes for the pin to switch from a 0 to a 1 using the capacitor as a timer). This method is called a 1 bit Analog to Digital Converter.



Initials Date Time	
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