Team Number:	106		 				
Project Name:	Automatic Plant Care						
Team Member Names:	Charlie Klotz						
Version:	1						
A. List ALL major compone	ents (active devices, int	egrated circuits,	etc.) except for power so	urces, v	voltage regulators, resistors, capac	itors, or passive elements	
All Major Components	Component Name	Part Number	SupplyVoltageRange	#	AbsoluteMaximumCurrent (mA)	TotalCurrent(mA)	Unit
	curiosity nano board	PIC18F57Q43	1.5-5.5V	1	500	500	mA
	quad op-amp	MCP6004	1.5-5.5V	1	0.7	0.7	mA
			İ				
B. Assign each major component above to ONE power rail below.							
+5V Power Rail	Component Name	Part Number	SupplyVoltageRange	#	\bsoluteMaximumCurrent (mA)	TotalCurrent(mA)	Unit
	curiosity nano board	PIC18F57Q43	1.5-5.5V	1	200		mΑ
	quad op-amp	MCP6004	1.5-5.5V	1	100		mA
	5V regulator	LM7805	7-35V	1		_	mA
							mΑ
					Subtotal		mA
			1		mA		
			1	25%			
			Total Current Required on +5V Rail			375	mA
c2. Regulator or Source C	+5V Regulator	LM7805	(range)	1	1000	1000	
					ing Current Available on +5V Rail		mA
C. For each power rail above, select a specific voltage regulator using the same process as for major component selection. Confirm that the Total Remaining Current							
					at it can supply all of the regulators		
External Power Source 1	Component Name	Part Number	SupplyVoltageRange		\bsoluteMaximumCurrent (mA)	TotalCurrent(mA)	Unit
Power Source 1 Selection	Plug-in 9V 1000mA	63	100-240V	9V	1000	5000	mA
Power Rails Connected							
to External Power	+5V Regulator	LM7805	5-35V	1	1000	1000	mA
Source 1					ilable on External Power Source 1		
		4000	mA				