Things to put in the python file:

Biology:

Colony forming units CFU= number of colonies/ amount of platted \* dilution factor

Population Nt+1 Nt + B – D + I – E

Generation time G=t/n

Mark-Recapture N = (M\*C) / R

Growth Nt = N0ert

Nt+1 = RoNt

Nt+1 =lNt

dN/dt = rN

Chemistry:

pH [H30+] = /Ka x [HA]0

ph = -log[H30]+

ka = 10 \* pka