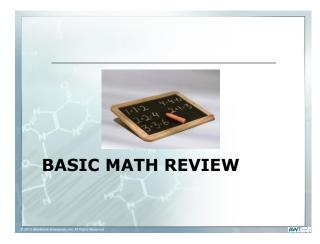


# Top 10 Phobias Google

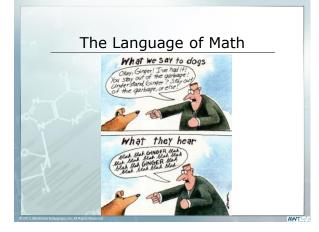
- 1. Acrophobia Fear of Heights
- 2. Claustrophobia Fear of Enclosed Spaces
- 3. Nyctophobia Fear of the Dark
- 4. Ophidiophobia Fear of Snakes
- 5. Arachnophobia Fear of Spiders
- 6. Trypanophobia Fear of Injection or Medical Needles
- 7. Astraphobia Fear of Thunder and Lightning
- 8. Nosophobia Fear of Having a Disease
- 9. Mysophobia AKA Germophobia Fear of Germs 10.Triskaidekaphobia - Fear of the Number 13







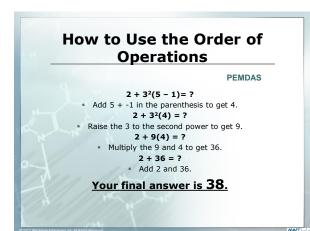


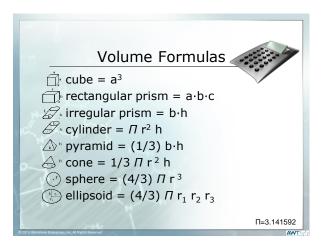




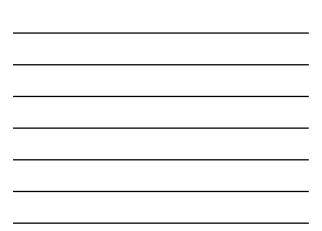


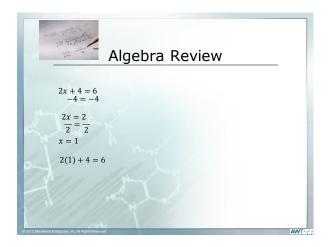


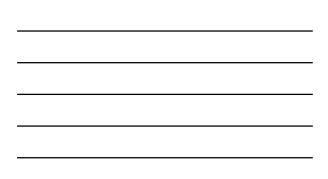




Droffy	Symbol	40000	10 <sup>n</sup>	Decimal	Chort coalo	Long scale
	Y	1000**	10 <sup>24</sup>	1 000 000 000 000 000 000 000 000		Quadrillion
yotta						
zetta	Z	10007	10 <sup>21</sup>	1 000 000 000 000 000 000 000	Sextillion	Trilliard
exa	E	1000 <sup>6</sup>	10 <sup>18</sup>	1 000 000 000 000 000 000	Quintillion	Trillion
peta	P	1000 <sup>5</sup>	10 <sup>15</sup>	1 000 000 000 000 000	Quadrillion	Billiard
tera	т	10004	10 <sup>12</sup>	1 000 000 000 000	Trillion	Billion
giga	G	1000 <sup>3</sup>	10 <sup>9</sup>	1 000 000 000	Billion	Milliard
mega	м	1000 <sup>2</sup>	10 <sup>6</sup>	1 000 000	Mil	lion
kilo	k	1000 <sup>1</sup>	10 <sup>3</sup>	1 000	Thou	sand
hecto	h	1000 2/3	10 <sup>2</sup>	100	Hun	dred
deca	da	1000 3	10 <sup>1</sup>	10	Ten	
		1000 <sup>0</sup>	10 <sup>0</sup>	1	0	ne
deci	d	1000-1/3	10 <sup>-1</sup>	0.1	Te	nth
centi	с	1000-2/3		0.01	Hundredth Thousandth Millionth	
milli	m	1000-1	10 <sup>-3</sup>	0.001		
micro	μ	1000-2	10 <sup>-6</sup>	0.000 001		
nano	n	1000-3	10 <sup>-9</sup>	0.000 000 001	Billionth	Milliardth
pico	p	1000-4	10-12	0.000 000 000 001	Trillionth	Billionth
fernto	f	1000-5	10-15	0.000 000 000 000 001	Quadrillionth	Billiardth
atto	a	1000-6	10-18	0.000 000 000 000 000 001	Quintillionth	Trillionth
zepto	z	1000-7	10-21	0.000 000 000 000 000 000 000 001	Sextillionth	Trilliardth
vocto	v	1000-8	10-24	0.000 000 000 000 000 000 000 000 001	Sentillionth	Quadrillionth

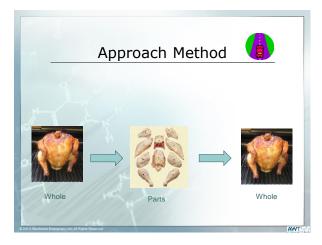


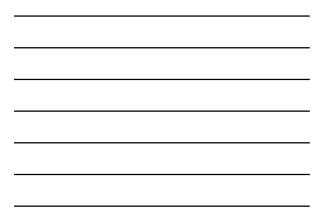


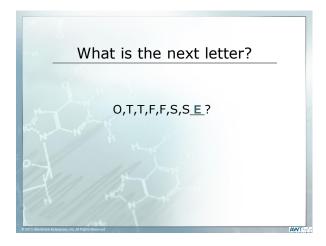


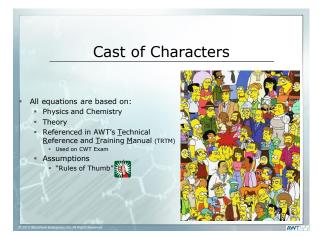




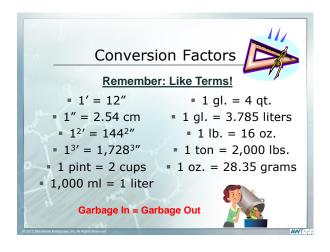




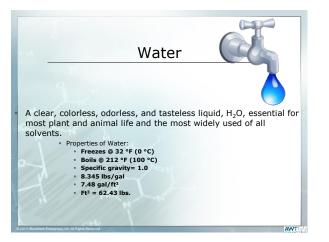


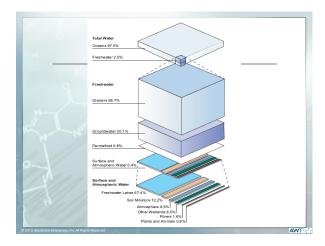






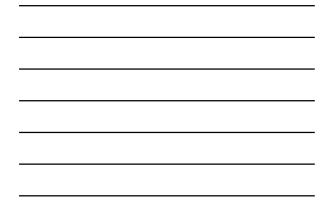


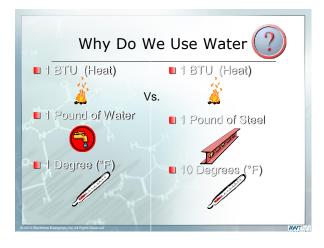




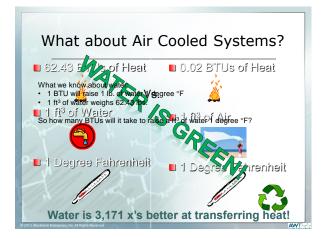




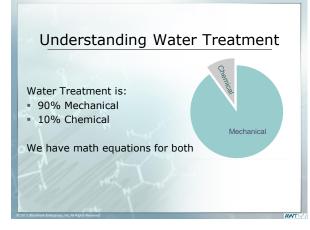






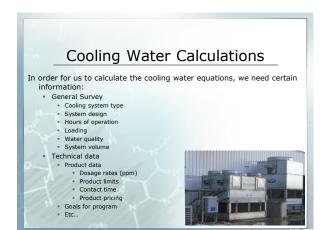


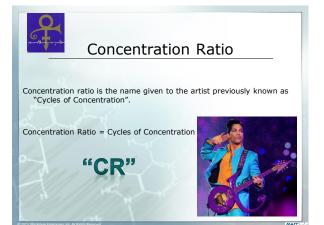


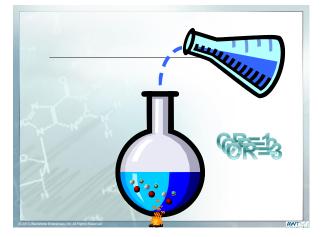




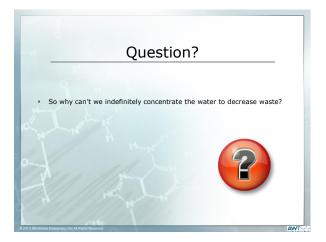


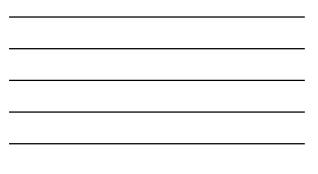


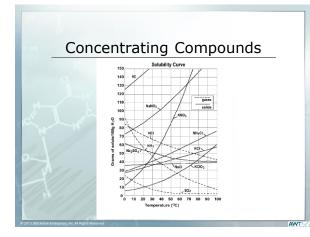


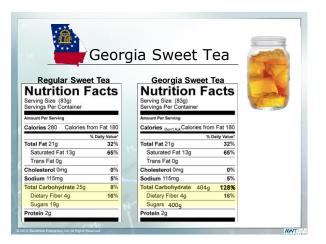




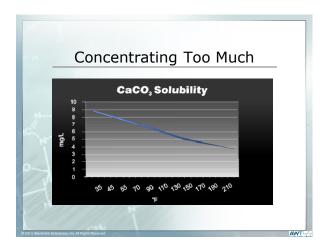




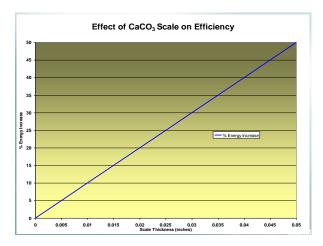




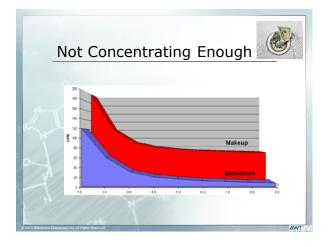




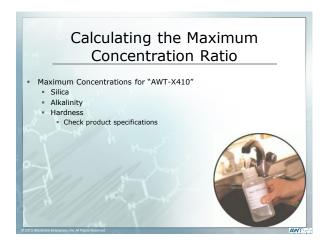


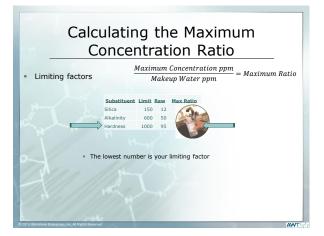




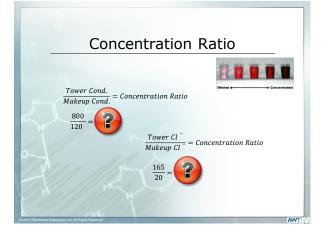


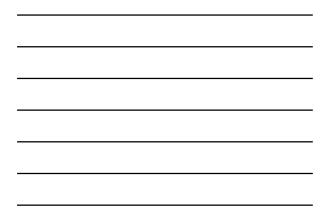


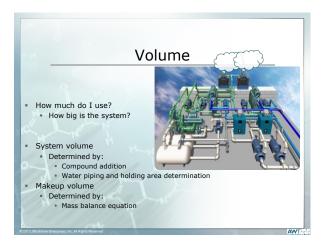


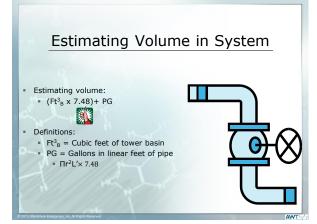


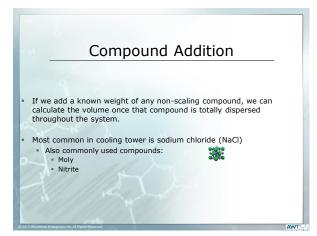


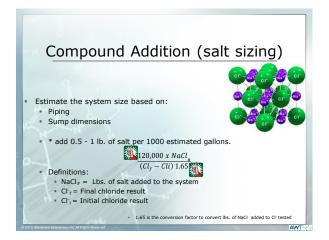


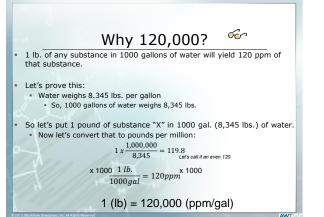


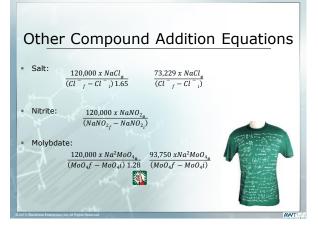


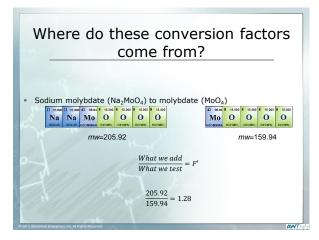


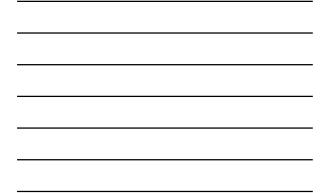


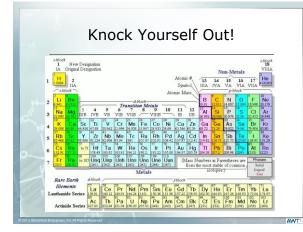




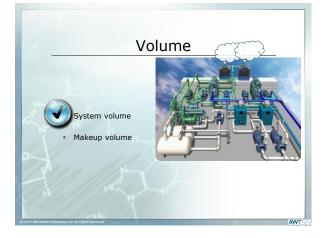


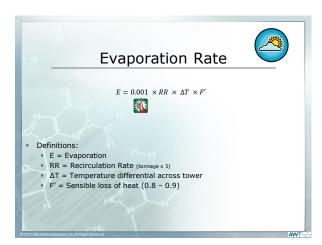


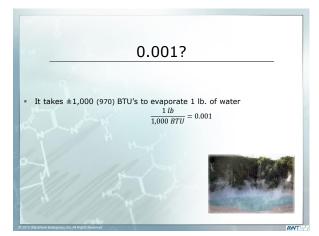


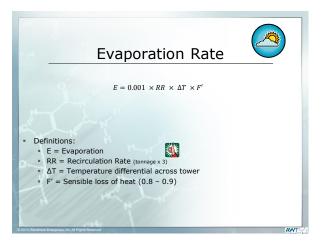


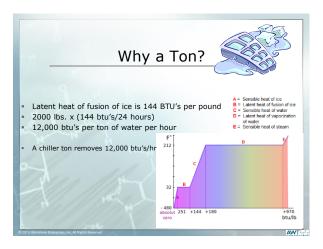














# Tonnage x's 3?

What we know:

- A chiller removes 12,000 BTU's per hour per ton
- A tower is sized to remove the chillers 12,000 btu's plus 3,000 btu's for the chiller's parasitic heat.
- A tower ton is 15,000 BTU's/hour

Let's do another proof: • Water weighs 8.345 lbs. per gallon • Flow rate is in Minutes, but tonnage is based on Hours

### Flow rate using pounds per hour:

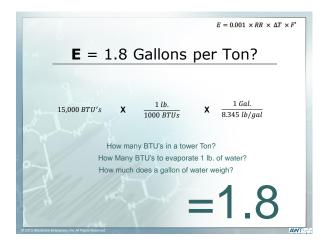
= 8.345 x 60 = 500.7

- So, 500.7 is our flow constant per 1 degree Fahrenheit.
   Towers are usually designed at a 10° ΔT, so, 500.7 x 10 = 5007

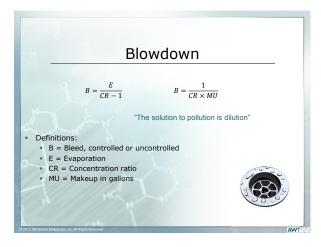
AWT

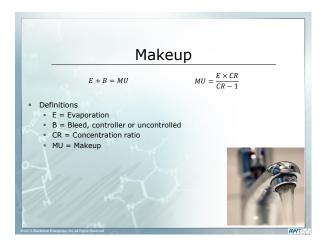
- Now let's put them together:
- = 15,000 / 5007 = ±3

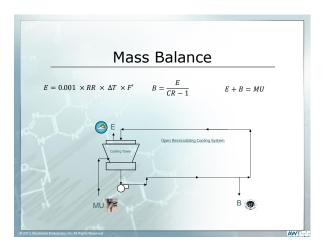
# Factors for Non-HVAC Absorption chillers: Tonnage x's 4\* Others: Use actual recirculation rate = ±10 GPM of evaporation per 1,000 GPM of flow @ 10 $^\circ\text{F}$ $\Delta\text{T}$ \*30,000 BTU's at $\Delta T$ 15°F AWT

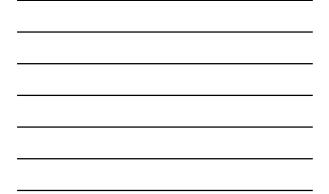


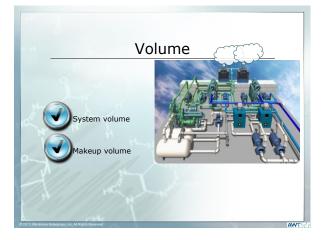


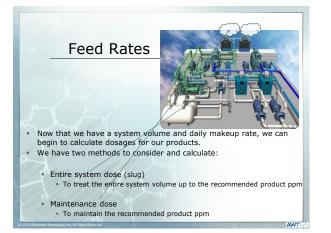


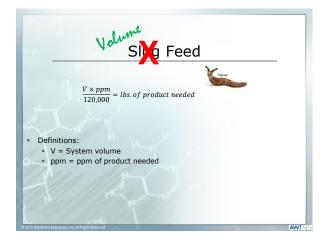


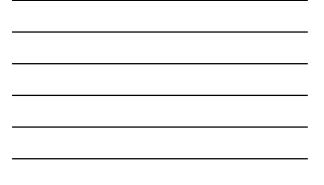


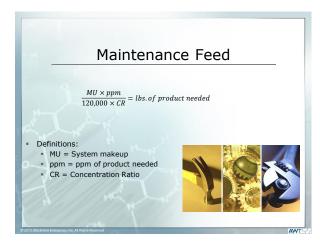






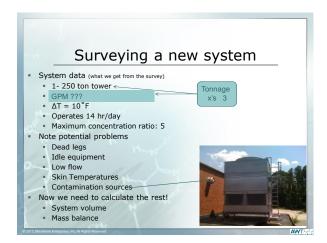


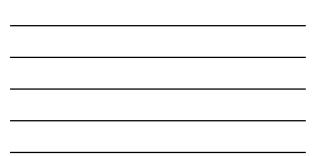


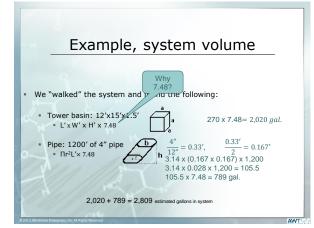




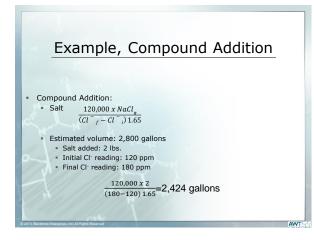


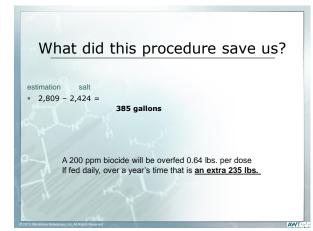


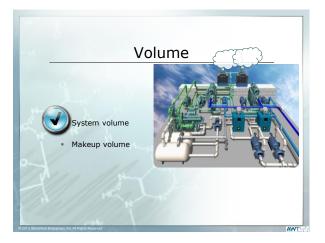




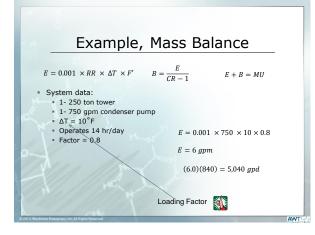




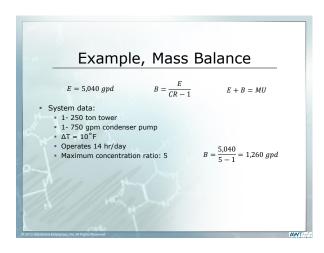




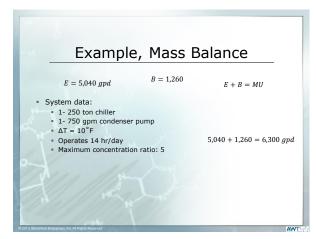


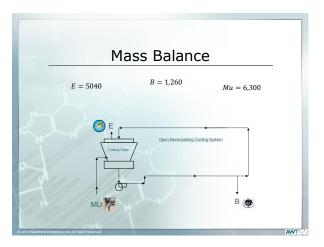




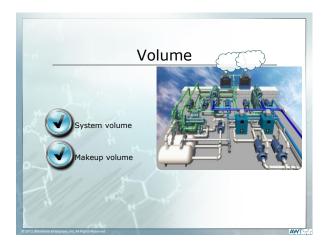


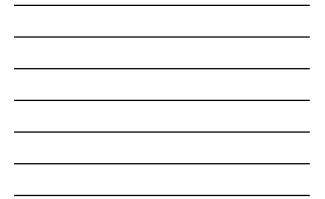


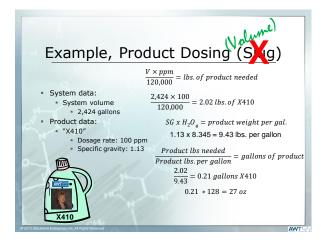


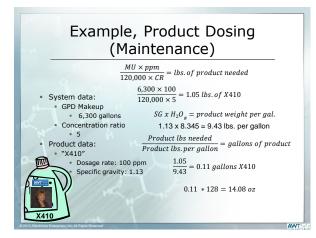




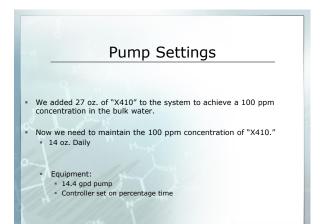


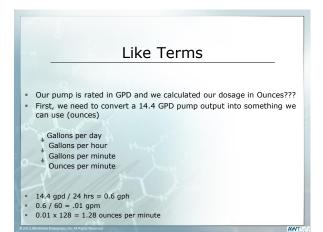


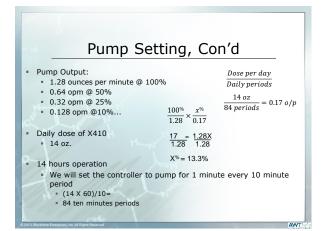


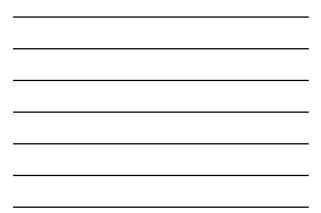


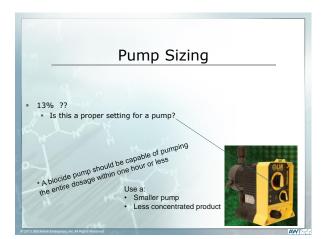




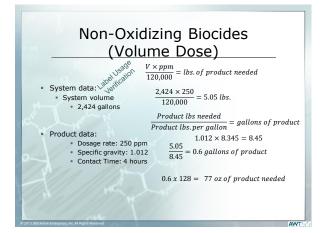


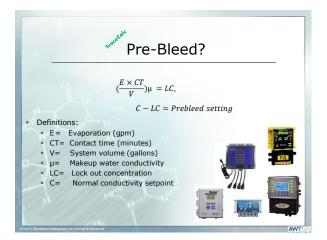


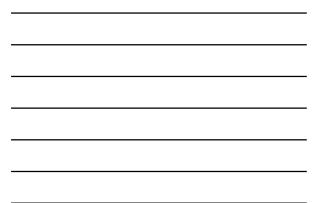


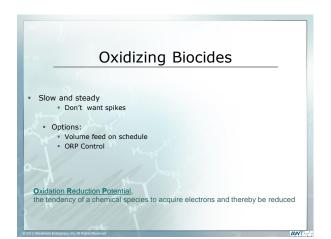


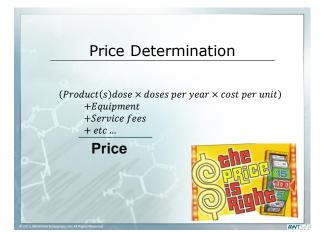


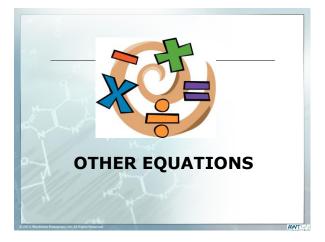


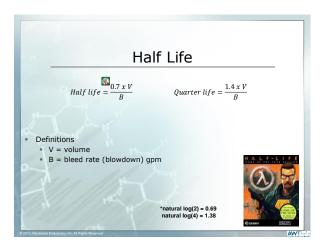


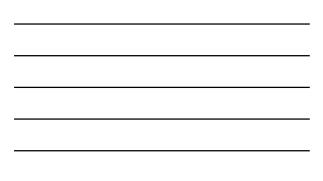


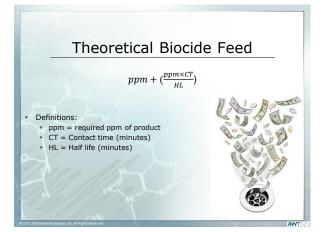


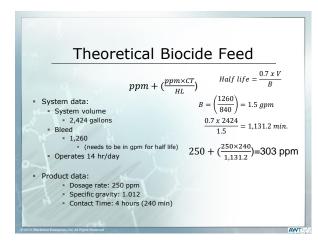




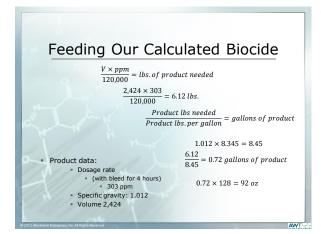






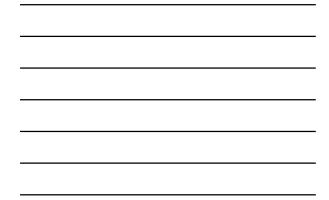


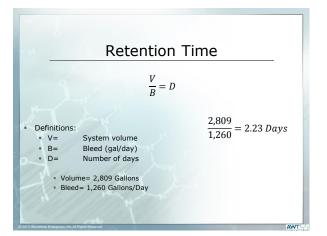


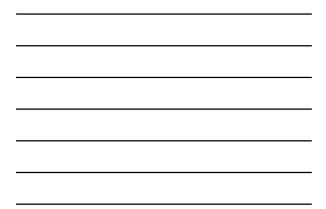


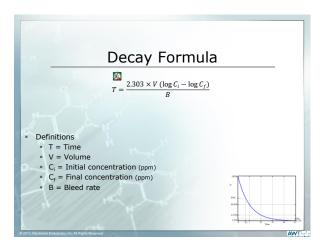




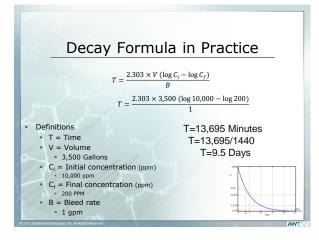




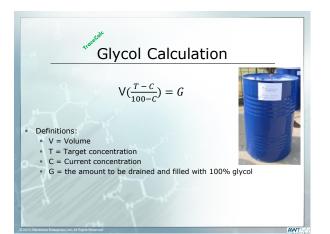


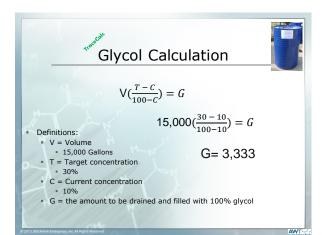


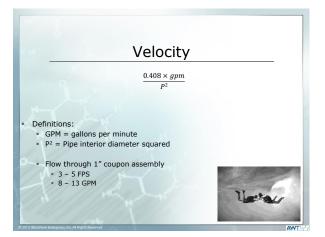


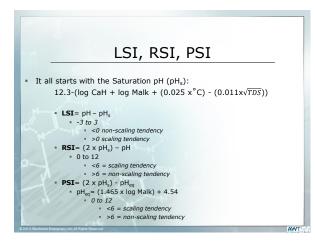


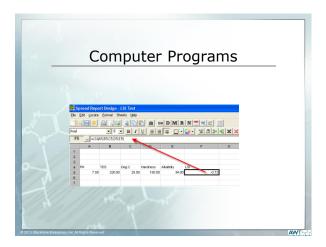






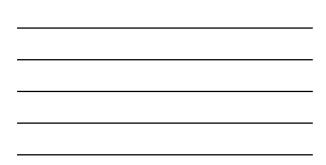


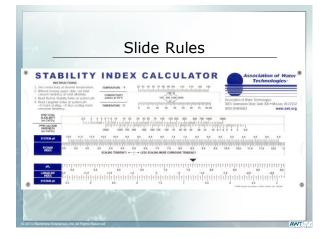




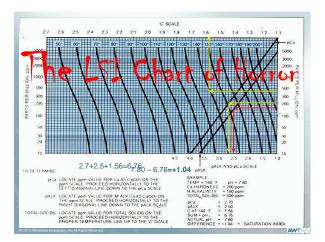




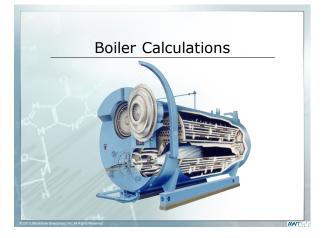


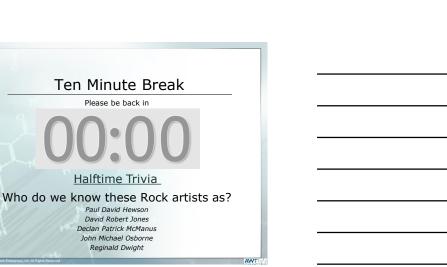








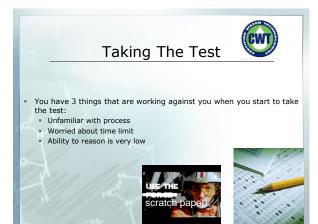


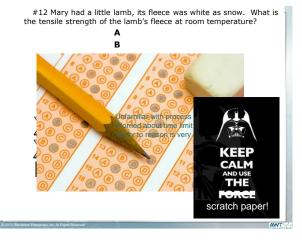


# Who Are They?

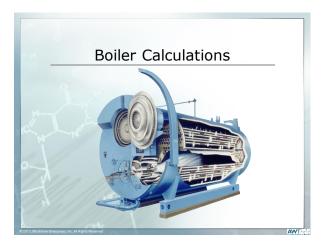
Paul David Hewson David Robert Jones Declan Patrick McManus John Michael Osborne Reginald Dwight

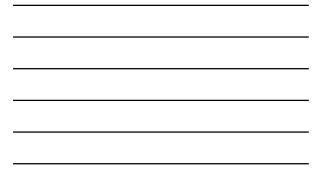
Bono David Bowie Elvis Costello Ozzy Osborne Elton John

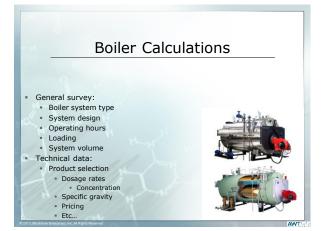


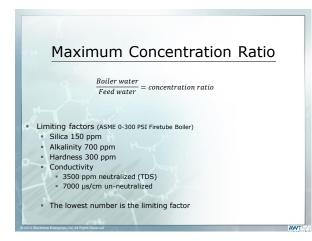


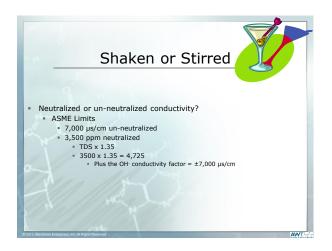


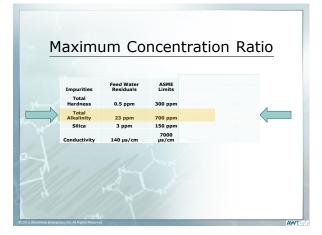








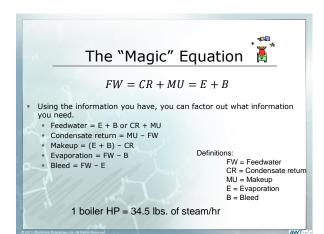


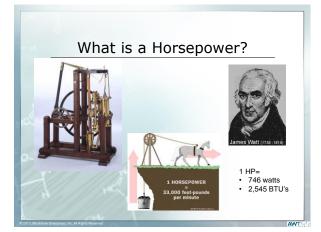




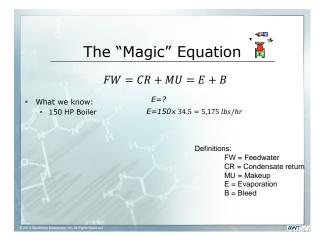
ASME Re	ecomm	ende	d Boil	er Cont	rol Limits
	-				-
	ASME Re	commend	led Boiler (	Control Limits	ASME
		Wat	tertube	Firetube	SETTING THE STANDARD
	Pressure	0-300	301-600	0-300	
			Feedwater		
	Oxygen	<0.007	<0.007	<0.007	
	Iron	<0.10	<0.05	<0.10	
	Copper	<0.05	<0.025	<0.05	
	Hardness	<0.5	<0.3	<1.0	
	рН	8.3-10.5	8.3-10.5	8.3-10.5	
	тос	<1	<1	<10	
	Oil	<1	<1	<1	
			Boiler Water		
	Silica	<150	<90	<150	
	M Alk	<1000	<850	<700	
	Un-Neut. Cond	<7000	<5500	<7000	



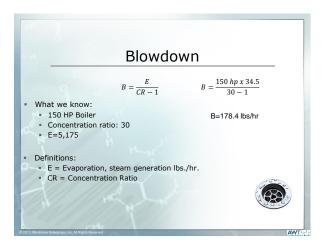


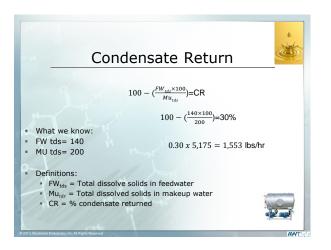


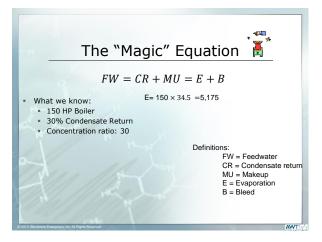


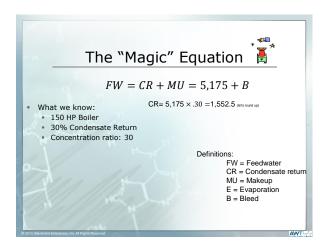


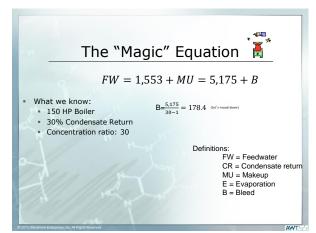


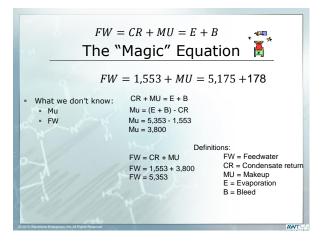




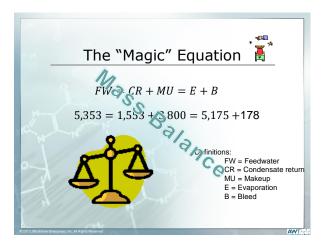


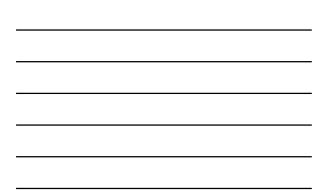


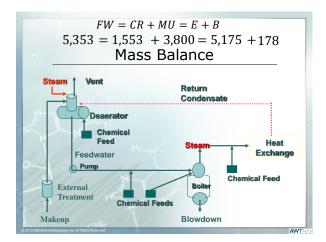




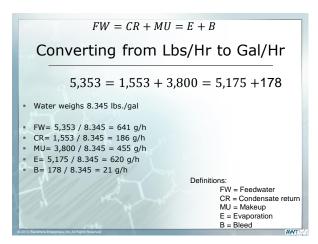




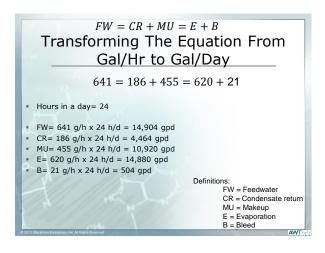


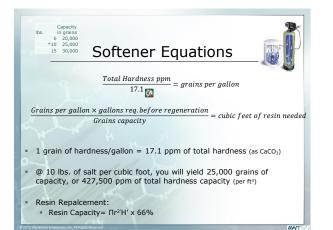


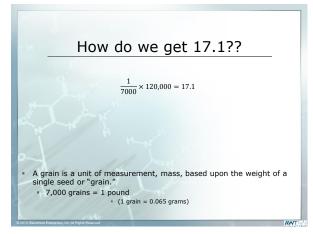


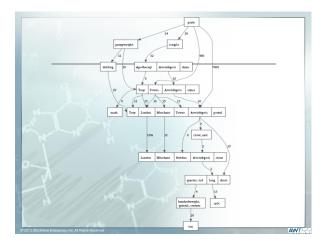


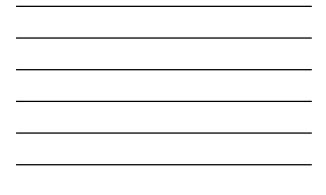


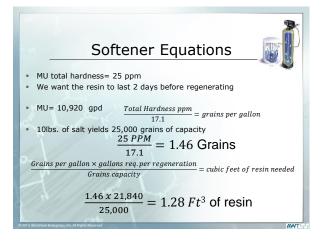




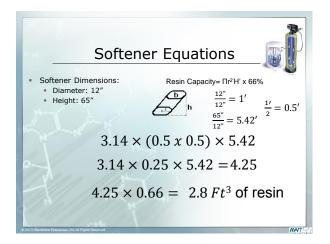














Boiler Product Equation	າຣ
Based on our mass balance equation	
and the second	
FW = CR + MU = E + B	
5,353 = 1,553 + 3,800 = 5,175 + 17	78
All in	lbs. per hour
5 213. Bodrese Enterprises, to: A Figure Basered	

Sulfite

ESTIMATED O, CON (FOR CALCUL) FEEDWATER TEMP 50

> 200 210 DEAERATER

 $(O_2 \times 7.88) + (\frac{SO_{3_{\pi eq}} \times 1.6}{CR}) = Na_2 SO_{3_{\#}}$ 

 Na<sub>2</sub>SO<sub>3</sub> = lbs. of dry Na<sub>2</sub>SO<sub>3</sub> per 1,000,000 lbs of FW SO<sub>3</sub>

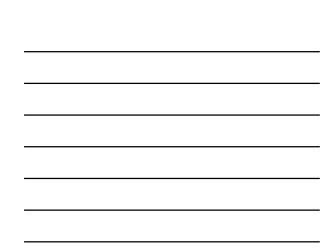
Jert.

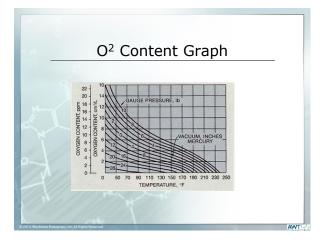
6.86 6.29 7.72 5.15 4.72 4.20

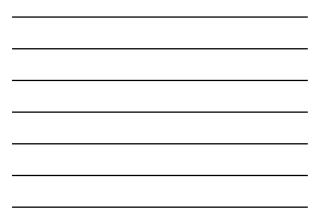
4.29 3.86 3.43 2.72 2.00 1.29

0.58 USE 0.007

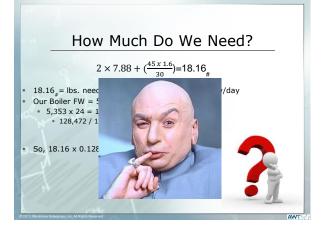
AWT

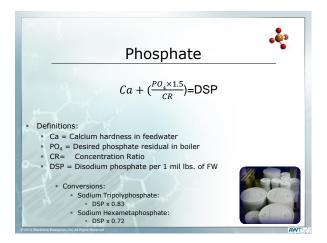


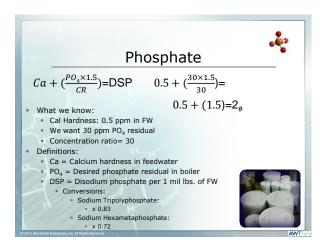


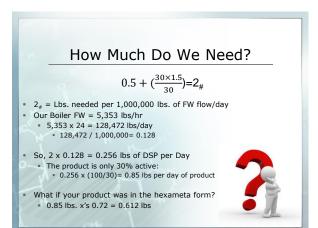


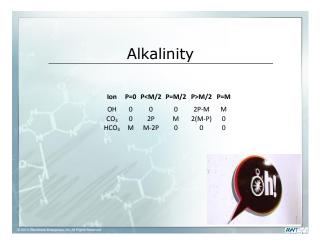
Sulfite	S	O <sub>3</sub>
$O_2 \times 7.88 + (\frac{SO_3 \times 1.6}{CR}) = N_1$	**	
$2 \times 7.88 + (\frac{45 \times 1}{30})$	_)=	
What we know: 15.76 + (2.4)=1	8.16	
= FW Temp= 190°F	# ESTIMATED O <sub>2</sub> CONTEN	T OF FEEDWATE
<ul> <li>45 PPM residual required</li> </ul>	(FOR CALCULATING: FEEDWATER TEMP *F	
= CR= 30	FEEDWATER TEMP 'F	PPM O <sub>2</sub> 11.10
• CK= 30	60	10.00
Definitions:	70	9.01
Demilions.	80	8.22
<ul> <li>O<sub>2</sub> = O<sub>2</sub> content from chart</li> </ul>	90	7.50
	100	6.86
<ul> <li>SO<sub>3Reg</sub> = SO<sub>3</sub> required</li> </ul>	120	7.72
	130	5.15
<ul> <li>CR = Concentration Ratio</li> </ul>	140	4.72
DW Freductor	150	4.29
FW = Feedwater	160	3.86
Na <sub>2</sub> SO <sub>3</sub> = lbs. of dry Na <sub>2</sub> SO <sub>3</sub>	170	3.43
	180	2.72
	190	2.00
per 1,000,000 lbs. of FW		
per 1,000,000 lbs. of FW	210	0.58

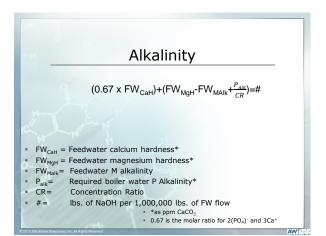


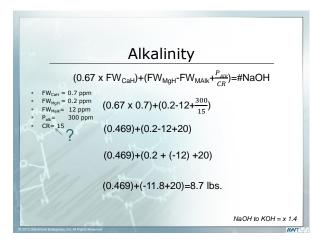


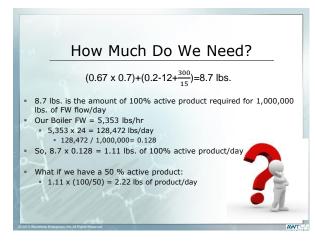


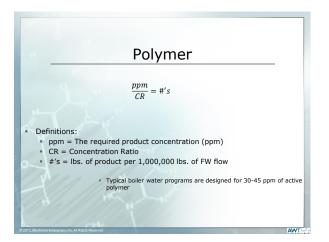


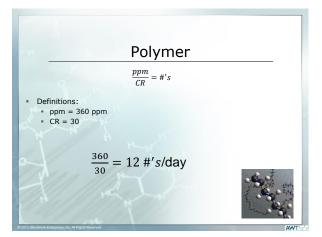


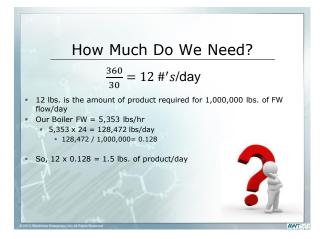


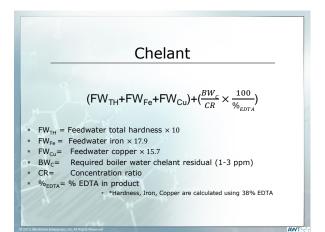


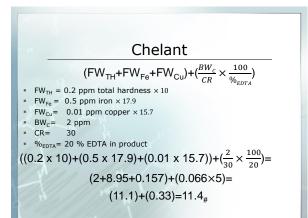


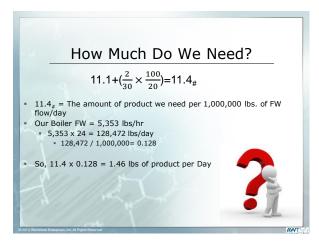


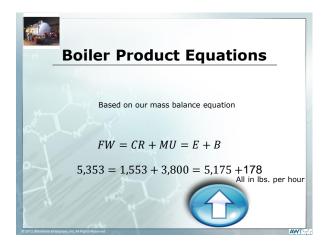


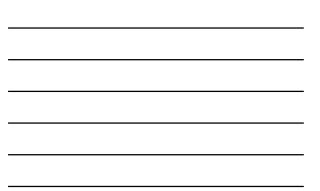


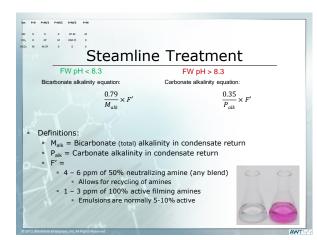


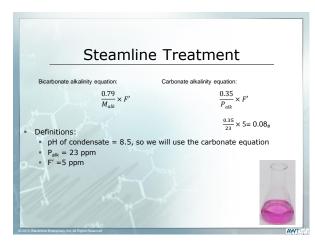




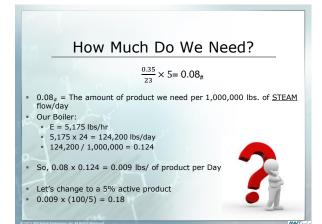


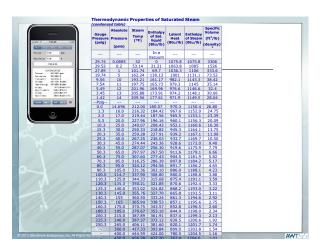




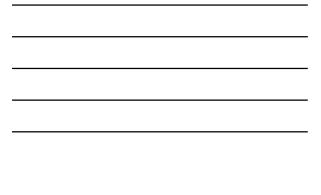


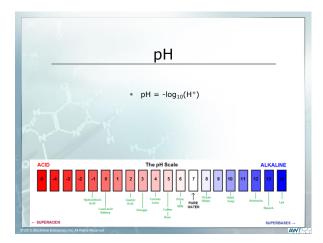




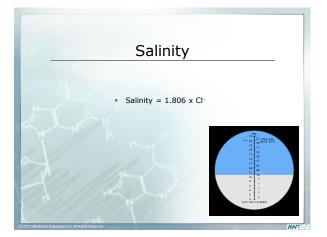


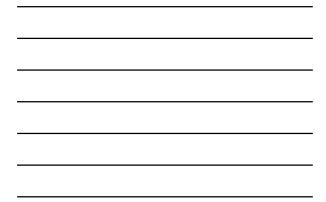


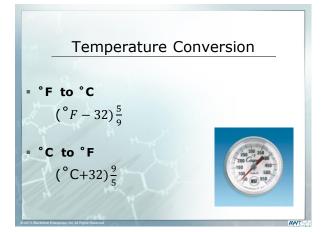


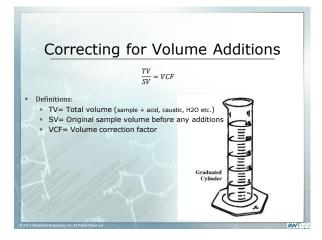


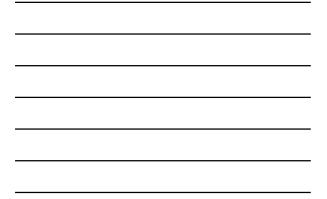


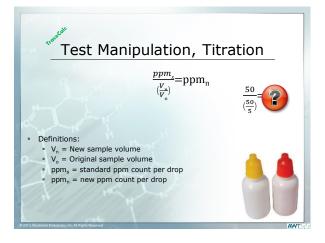


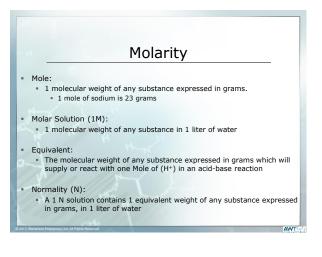












	2N Sulfuric Acid
Н	1 1 100110 16 02.0000 № 15.000 № 15.000 № 15.000 № 15.000 H S OO OO OO 1 Intercerve Businesis
<ul> <li>This means that one li equivalents of sulfuric</li> <li>Molecular weight =</li> </ul>	
of H <sub>2</sub> SO <sub>4</sub> supplies two	s one half the molar mass, since each molecule hydrogen atoms to neutralize alkaline materials 2SO <sub>4</sub> = 98g/2 = 49.05g
	W = (V)(N)(E)
Definitions: W= Weight (grams)	$W = (1 \ liter)(0.02N)(49.05g)$
V= Volume N= Normality E= Equivalent weight	So, 0.98 grams of $H_2SO_4$ diluted to 1 liter Will give you 0.02N $H_2SO_4$

