

Miami Area Society of Homebrewers Meeting



January 25, 2018

Ch-ch-ch changes!

- Introduction of the new MASH Board
 - Geoffrey, Ruben, Marie, Victoria, Chris
- Location (congrats, you made it to the right place!)
- Medal award policy change \$40 -> \$25 (too much winning!)
- BUT we want to keep winning! Miami should be at the top!
- Maybe some look and feel?
- Benefits!
- Voting rights

Treasure's Report

Account Balances 1/24/18

ASSETS	
Cash and Bank Accounts	
Checking	1,805.00
PayPal Account	5,280.34
Cash Account	362.32
TOTAL Cash and Bank Accounts	7,447.66
TOTAL ASSETS	7,447.66
LIABILITIES	0.00
OVERALL TOTAL	7,447.66

Cash Flow

TOTAL INFLOWS	2,611.00
TOTAL OUTFLOWS	141.00
OVERALL TOTAL	2,470.00

Paid Members: 31

2018 MASH Medal Update

- Matt Waldon scores GOLD MEDAL for his Wee Heavy at the ARC Brewed Fur Them
- Geoffrey Shideler scores GOLD MEDAL for his Brett IPA at the Big Bend Brewoff

GOLD

2

SILVER

0

BRONZE

0

Summary of Miami Beer Festival @ Marlins Park



A dark grey background featuring a collage of white line-art illustrations of school supplies. On the left, there is a globe, a stack of books, and a ruler. On the right, there is a microscope and a pencil. The central area is a white rectangle containing the title, and the bottom is a solid yellow rectangle.

MASH FLASH UPDATES

Introducing “CAMM”

- A new subcommittee is being formed, named the Committee for Advancing Mash Medaling, or **CAMM**
- Led by Mo Molina, the committee will explore new ideas and strategies to advance MASH competition success
- **VOLUNTEERS WANTED!!!**

Event Coordinator? We need you!



MASH Voting

- Electronic Voting: For the 2019 MASH election, voting will take place electronically. Any paid member will be able to vote, regardless of meeting attendance.
- A charter amendment update in the works.
- Anonymous, secure, flexible, better.
- Stay tuned!

MASH and Urban Brewers

- All paid members get an automatic discount
 - 5% on orders over \$29.99
 - 10% on orders over \$69.99
- Free delivery for members to MASH meetings
- Questions about ingredients on hand? Call JP!



MASH Logo Change?



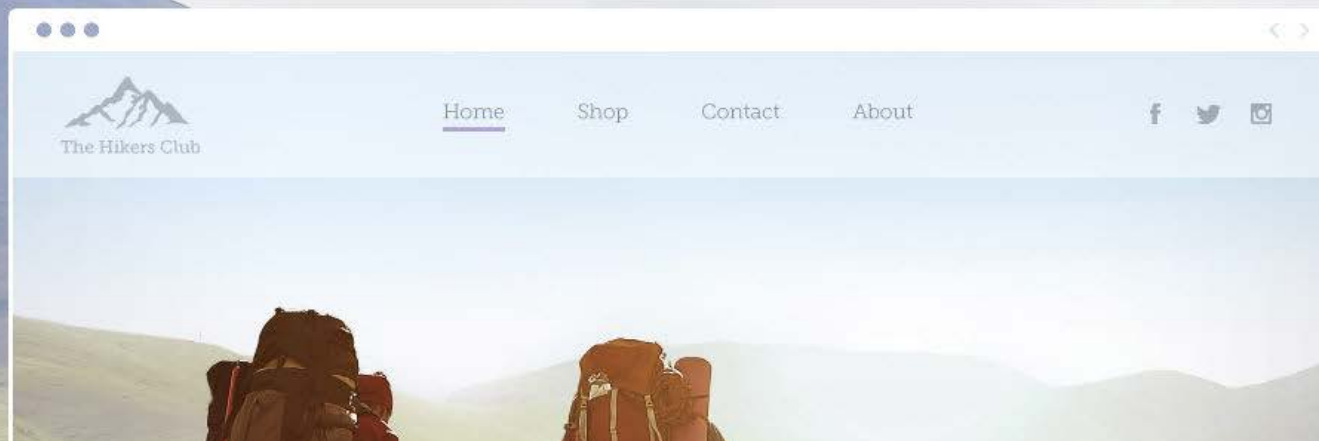
MASH Website Update?

WIX.com

Create Your Own Beautiful Website

Your stunning website is just a few clicks away. It's easy and free with Wix.

Start Now



MASH Membership Card



HEY KID...GOT I.D?

- Great news! We're working on creating membership cars for the club (thanks for the great idea, Mo!)
- What are they good for? All kinds of nifty stuff, like:
 - Discounts at your favorite local breweries
 - Discounts at your favorite local homebrew shops
 - Slicing, dicing...maybe even opening your beer?
 - Perks are still being negotiated, suggestions are welcome
 - Details to follow

Hey Mashers! Don't forget about SLACK!



IS IT REALLY SLACKING

if everybody's doing it?

All sorts of people are on Slack these days...including your fellow M.A.S.H. members. But what is it good for?

- Sharing and requesting useful information
- Organizing group buys
- Setting up brew days with fellow club members
- Learning about equipment deals
- Communicating about many specific topics through dedicated channels like #bottleshare #yeastrade and more
- Messaging directly with specific users or private groups of users
- And of course...passing the time by chatting about your favorite hobby (Slack is NOT just a clever name)

PLUS getting on is **really** easy

GETTING STARTED

Step 1 • Join a Slack workspace

Accept our invitation by opening the email and clicking Join. Slack will guide you along, asking for your full name, display name and a password so you can sign in and out with ease.

Step 2 • Set up your profile

Filling out your Slack profile helps other members learn more about you.

Step 3 • Download Slack's desktop and mobile apps

You can sign in and use Slack from a web browser on your desktop at any time (just go to slack.com/signin). But by downloading our desktop and mobile apps, you can stay signed in, have more control over notifications, and stay in sync even when you're on the move.

To download Slack

- Mobile – Visit the App Store for iPhones and Google Play store for Android phones, and search for **Slack**.
- Desktop – Visit the App Store on your Mac; or slack.com/downloads on your Windows computer.

Coconut Cup! Featuring, Dave Kirsten!



COCONUT CUP

Sorting Day

- Saturday, 2/3 @ 10:00 a.m.
- 1,350 bottles of beer!
- Need case boxes & six-pack holders
- Need judges and stewards. No experience necessary!
- Please register via Reggie

Other

- Raffle / Donations
- Live Broadcast
- Beds for Brewers

Judging Sessions

Saturday, 2/10 @ 10:00 a.m.

Sunday, 2/11 @ 10:00 a.m

Saturday, 2/17 @ 10:00 a.m. (Conflict: Wakefest)

Sunday, 2/18 @ 10:00 a.m

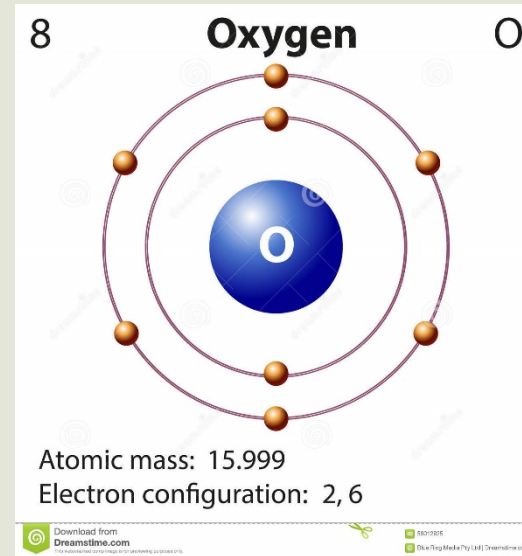
Sunday, 2/25 @ 10:00 a.m.

Friday, 3/2 @ 9:00 a.m

Saturday, 3/3 @ 9:00 a.m. (Final Judging & Awards Ceremony)

EDUCATION SESSIONS

- Let's learn something in addition to beer styles!
- Have an idea for a topic? Reach out!
- Ideas: mash pH, water chemistry, hop chemistry, carbon dioxide, fermentation temperature, homebrew setups, homebrew experiments, processes, etc.
- Want to lead an education session? Volunteer!!



EDUCATION SESSION

Oxygen: the element, the molecule, and its reactions

WHY DOES IT MATTER TO BEER?

Education session no. 1 of 3

What color is oxygen?



Oxygen and homebrewing...

“You have to oxygenate the wort before fermentation”

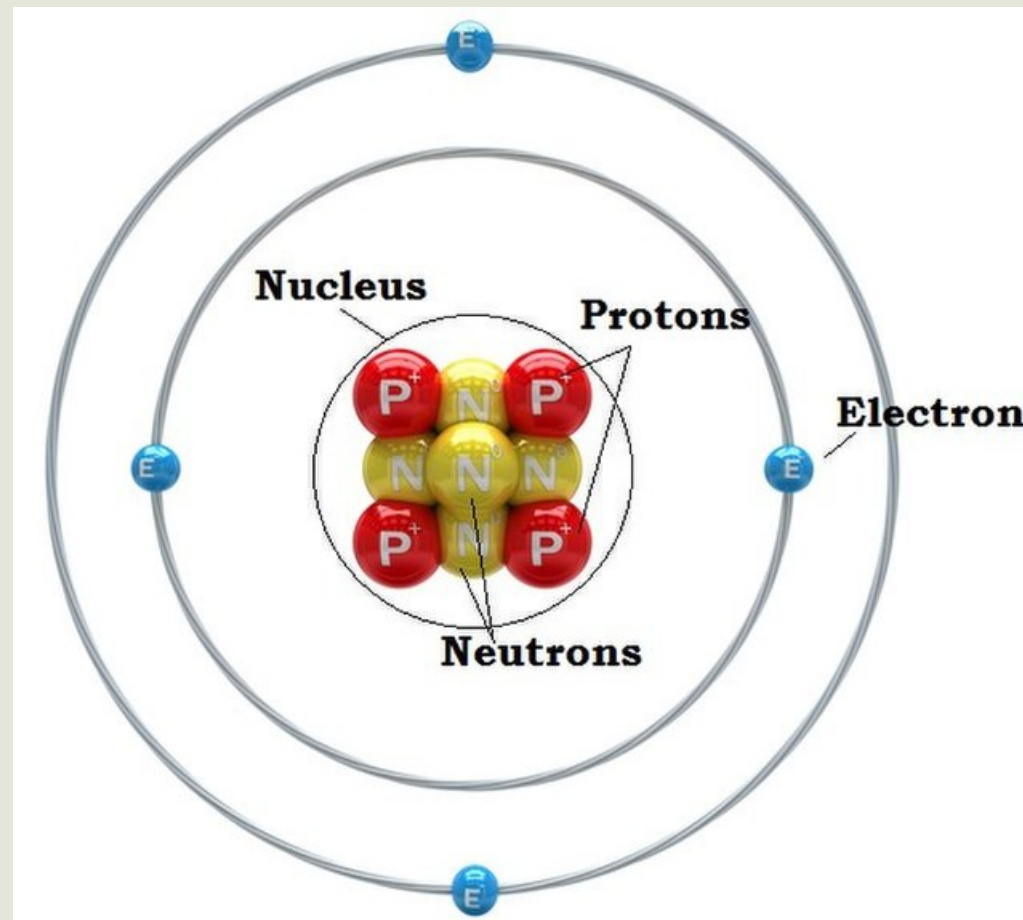
“Make sure you minimize splashing after fermentation so you don’t get oxidation”

“When you bottle or keg, purge with CO₂ to flush oxygen”



WHY???

The atom



The elements

Periodic Table of the Elements

Groups →

Periods ↓

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	1 H																	2 He
2	3 Li	4 Be											5 B	6 C	7 N	8 O	9 F	10 Ne
3	11 Na	12 Mg											13 Al	14 Si	15 P	16 S	17 Cl	18 Ar
4	19 K	20 Ca	21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr
5	37 Rb	38 Sr	39 Y	40 Zr	41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe
6	55 Cs	56 Ba	*La	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg	81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn
7	87 Fr	88 Ra	+Ac	104 Rf	105 Ha	106	107	108	109	110								

Alkali Metals

Alkali Earth Metals

Transition Metals

Rare Earth Metals

Other Metals

Non Metals

Halogens

Noble Gases

Electron Surplus

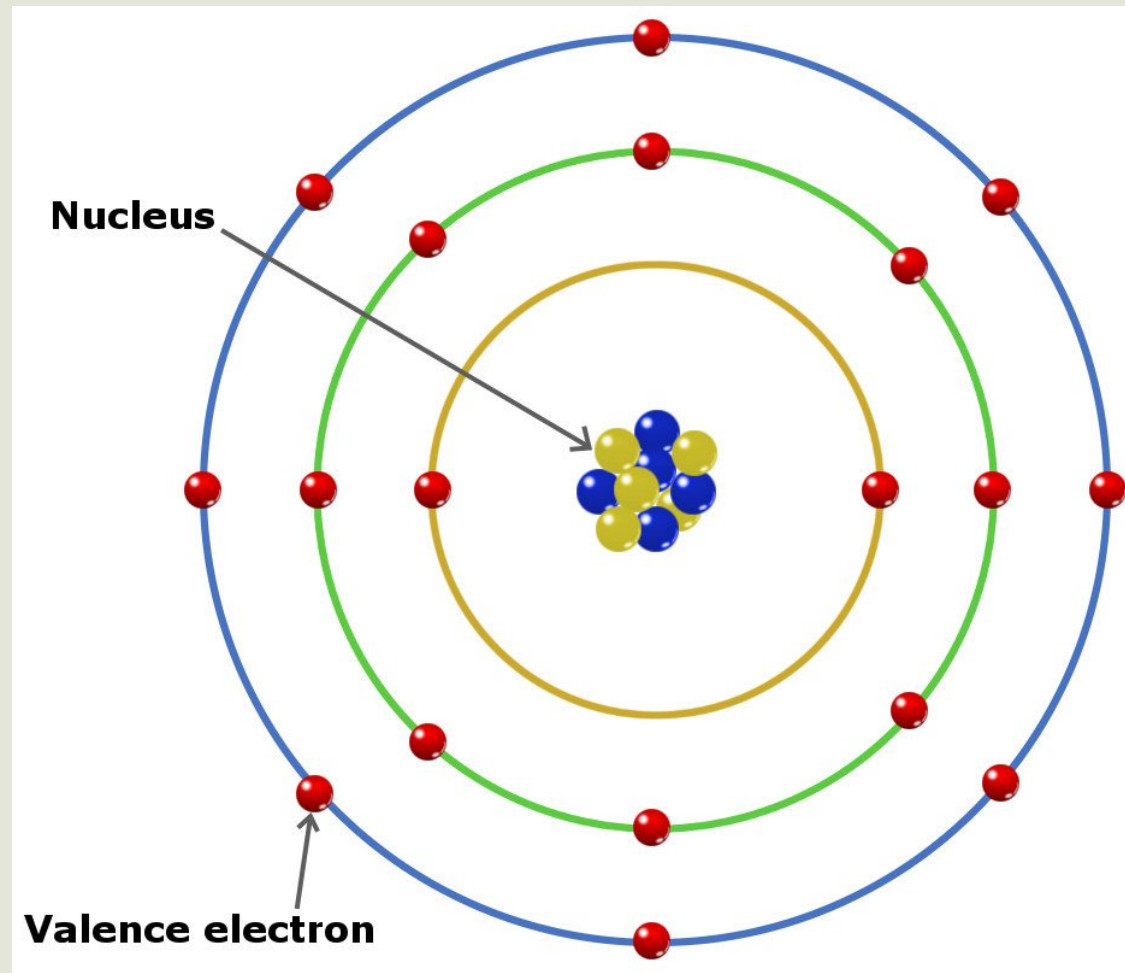
Reducing Elements

Oxidizing Elements

Electron Deficit

58	59	60	61	62	63	64	65	66	67	68	69	70	71
Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Lanthanides													
90	91	92	93	94	95	96	97	98	99	100	101	102	103
Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr
Actinides													

The electron shells



The elements, and their valence electrons

Valence Electrons:

The diagram shows a periodic table with arrows indicating the number of valence electrons for elements in the s and p blocks. The legend identifies the following categories:

- hydrogen (green)
- alkali metals (yellow)
- alkali earth metals (light blue)
- transition metals (orange)
- poor metals (blue)
- nonmetals (white)
- noble gases (orange)
- rare earth metals (grey)

Valence electron counts are indicated by red numbers and arrows:

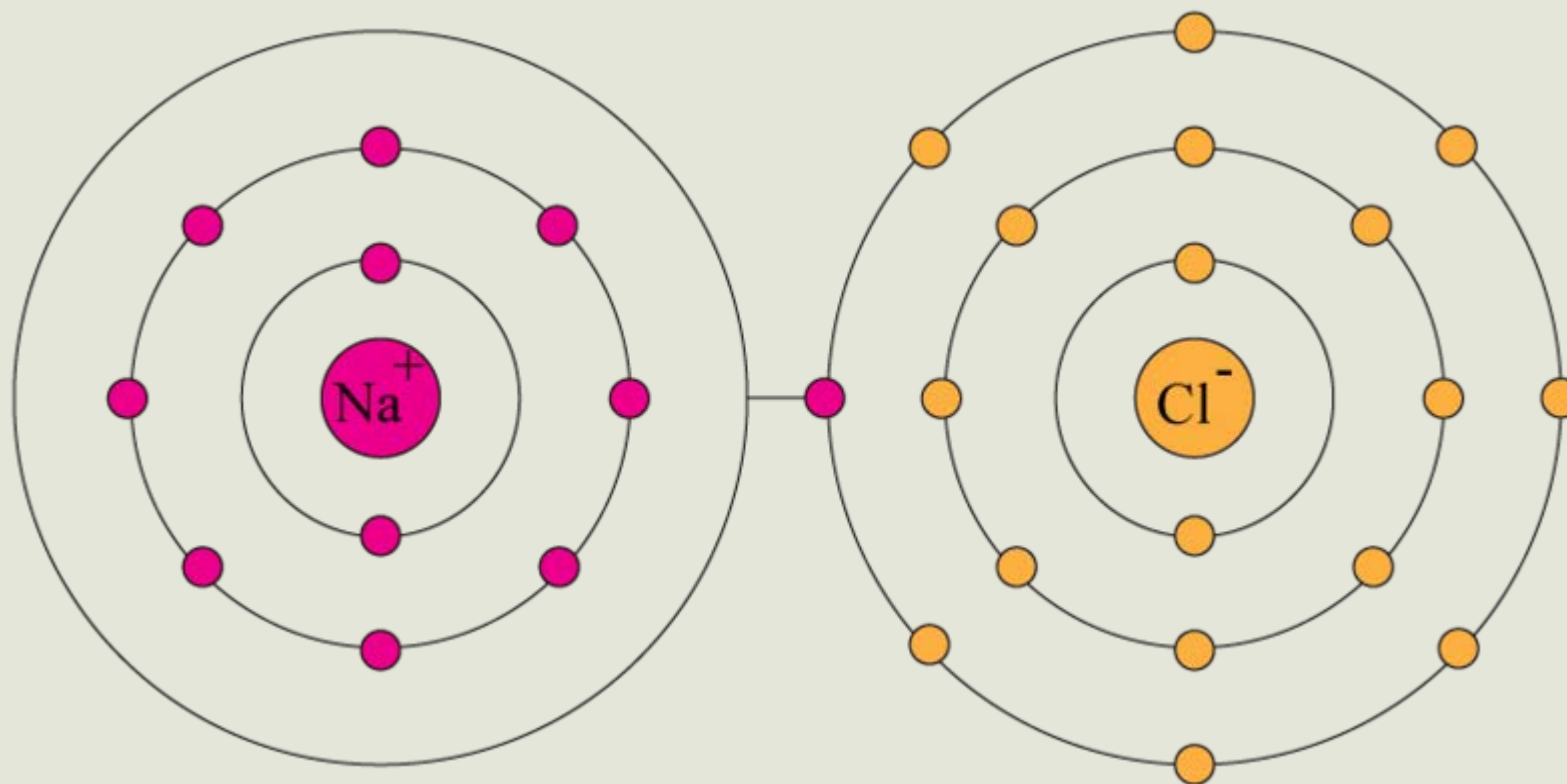
- 1: Hydrogen (H)
- 2: Alkali metals (Li, Na, K, Rb, Cs, Fr) and Alkaline earth metals (Be, Mg, Ca, Sr, Ba, Ra)
- 3: Boron (B)
- 4: Carbon (C), Silicon (Si), and Germanium (Ge)
- 5: Nitrogen (N), Phosphorus (P), and Arsenic (As)
- 6: Oxygen (O), Sulfur (S), and Selenium (Se)
- 7: Halogens (F, Cl, Br, I, At)
- 8: Noble gases (He, Ne, Ar, Kr, Xe, Rn)

The periodic table is color-coded according to the legend. The f-block elements (lanthanides and actinides) are shown at the bottom.

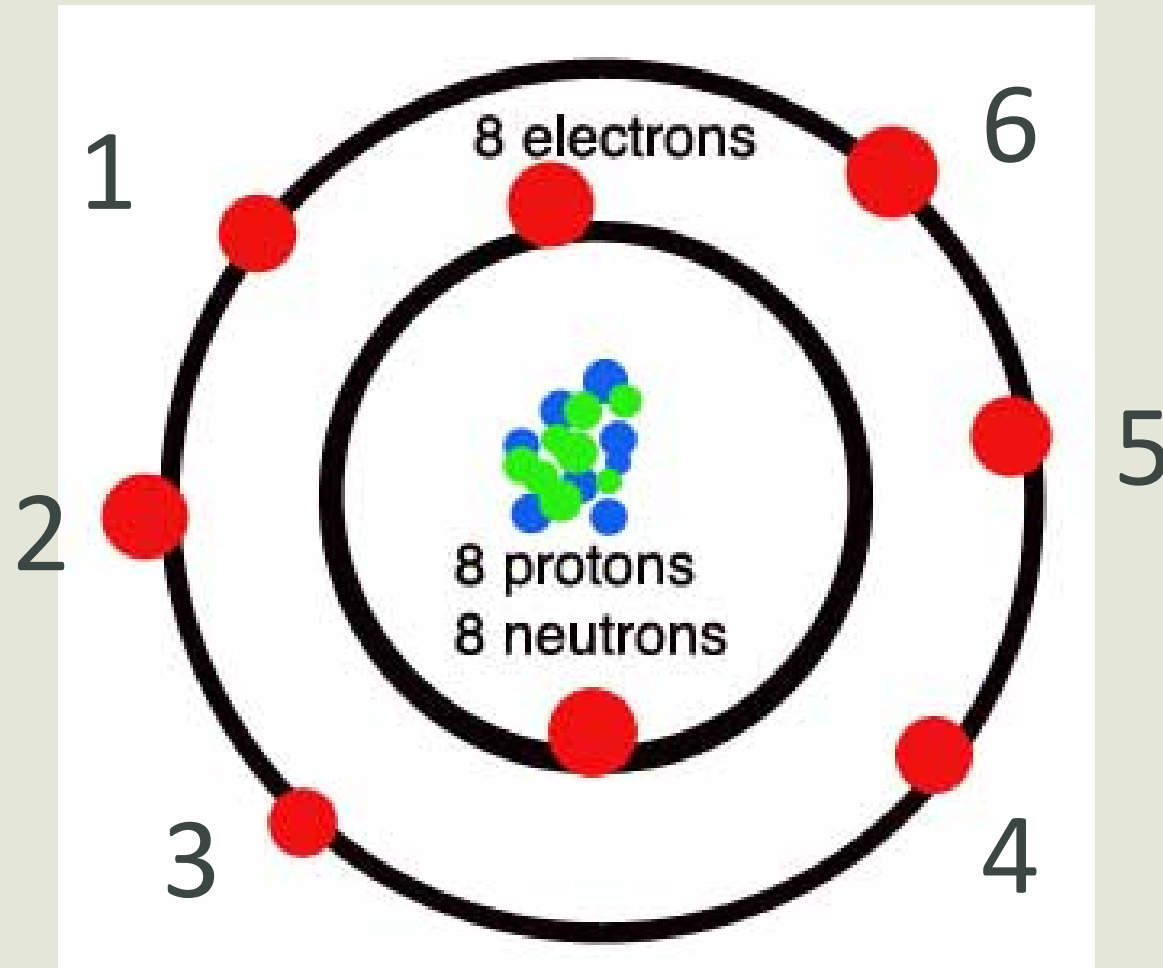
1	2											3	4	5	6	7	8	
H	He											B	C	N	O	F	Ne	
Li	Be											Al	Si	P	S	Cl	Ar	
Na	Mg											Ga	Ge	As	Se	Br	Kr	
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	In	Sn	Sb	Te	I	Xe	
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	Hg	Tl	Pb	Bi	Po	At	Rn
Cs	Ba	La	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	
Fr	Ra	Ac	Unq	Unp	Unh	Uns	Uno	Une	Unn									

58	59	60	61	62	63	64	65	66	67	68	69	70	71
Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
90	91	92	93	94	95	96	97	98	99	100	101	102	103
Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr

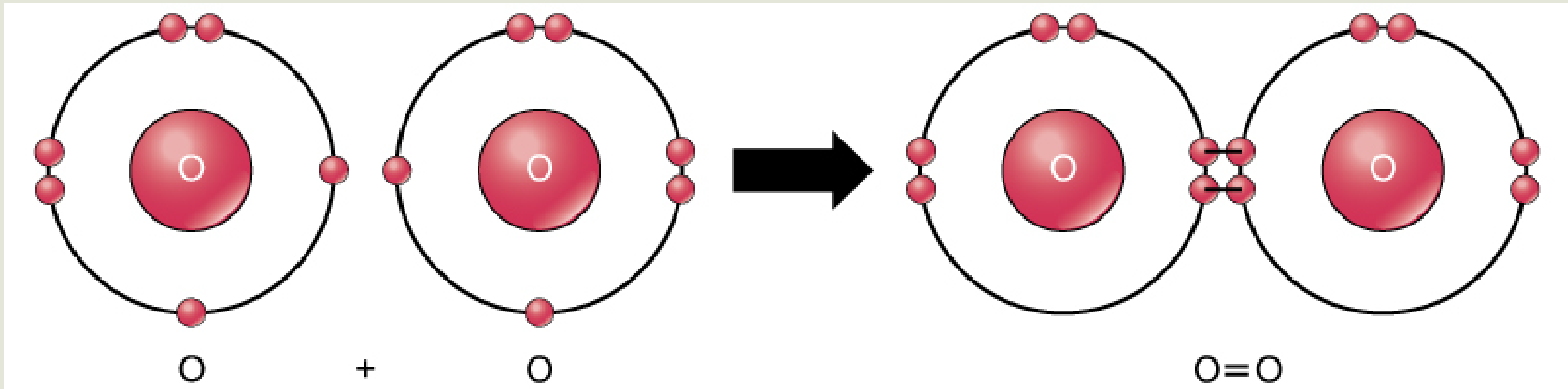
NaCl, sodium chloride, or salt (ionic bond)



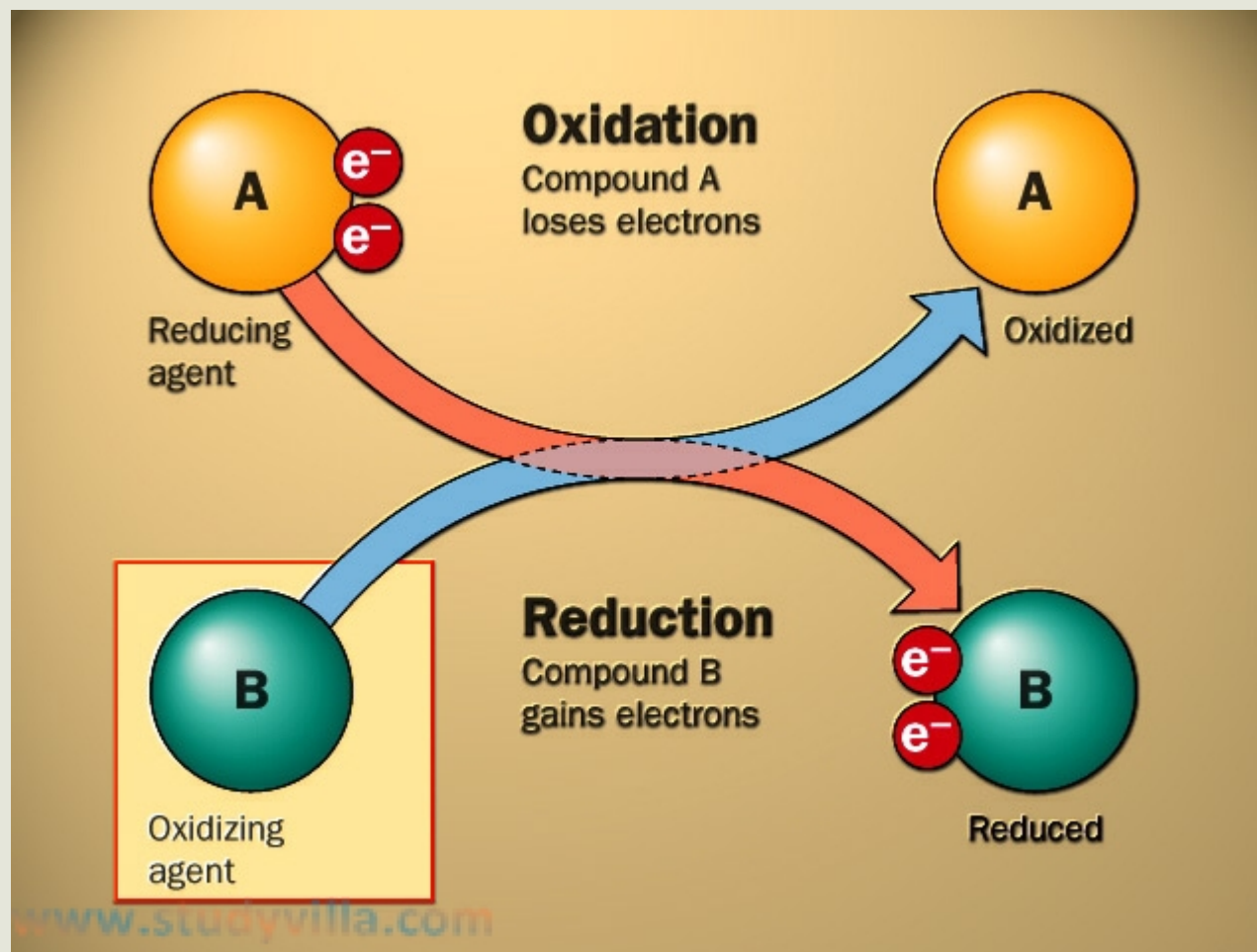
The oxygen atom



O₂, the dioxygen molecule (covalent bond)



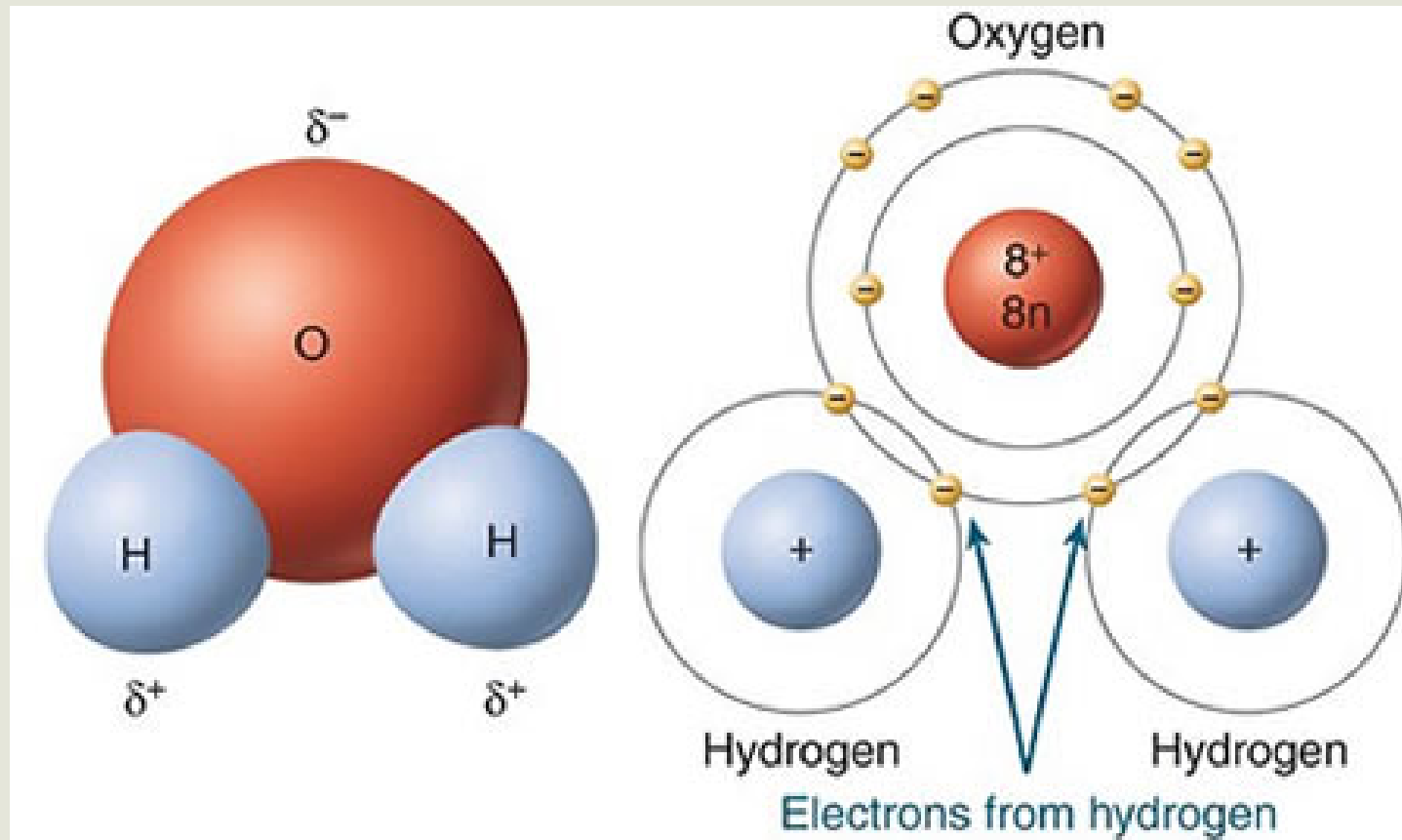
Reduction-Oxidation, or the redox reaction



Atoms, and electronegativity (ability to attract electrons)

Pauling Electronegativity Values																He
H 2.1																Ne
Li 1.0	Be 1.6											B 2.0	C 2.5	N 3.0	O 3.5	F 4.0
Na 0.9	Mg 1.3											Al 1.5	Si 1.9	P 2.2	S 2.6	Cl 3.0
K 0.8	Ca 1.0	Sc 1.4	Ti 1.5	V 1.6	Cr 1.7	Mn 1.5	Fe 1.8	Co 1.9	Ni 1.9	Cu 1.9	Zn 1.6	Ga 1.8	Ge 2.0	As 2.2	Se 2.6	Br 2.8
Rb 0.8	Sr 0.9	Y 1.2	Zr 1.3	Nb 1.6	Mo 2.2	Tc 1.9	Ru 2.2	Rh 2.3	Pd 2.2	Ag 1.9	Cd 1.7	In 1.8	Sn 2.0	Sb 2.1	Te 2.1	I 2.5
																Xe

H₂O, hydrogen dioxide, or water!



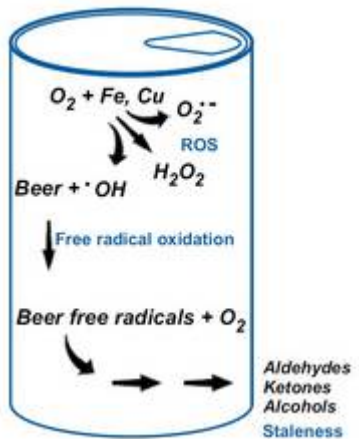
Did you follow?

- What are valence electrons?
- How many valence electrons does oxygen have?
- Why is oxygen so reactive?
- What exactly is oxidation?

Beer and oxygen, more to come!

- If oxygen is so reactive, and so bad, why do I add it before fermentation starts?
- What exactly is happening to my beer when oxygen is added before, during, and after fermentation?
- As a homebrewer, what are the best things I can do to ensure I am using best oxygen practices?

Beer and oxygen, more to come!



A dark grey background featuring a collage of white line-art illustrations of school supplies. On the left, there is a globe showing continents. Above it, a ruler and two circular protractors are visible. In the center, a stack of books is depicted. On the right, a microscope is shown. At the bottom, there are various geometric shapes like triangles and rectangles, along with a compass.

MASH ANNOUNCEMENTS

Floor is free

A dark grey background featuring a collage of white line-art icons. These include a globe, a microscope, a book, a percentage sign, a bar chart, and various geometric shapes and arrows, suggesting themes of science, business, and global competition.

BoTY Competition

January: IPAs (12C, 21A, 21B)

Looking ahead

February: Strong European Beers (9A, 9B, 9C)

March: Fruit Beer (29A, 29B, 29C)

April: American Porter and Stout (20A, 20B, 20C)