

Atom	Quar	ntity	C	olor
Hydrogen (H)	2		White	
Oxygen (O)	3		Red	
Short bonds	3)	Light Gra	ау
Long bonds	2		Gray	
<u>Water: H₂C</u> - 75% of the human to water - 71% of Earth's surfact covered in water. <u>Hydrogen Peroxic</u> - Water with an extr oxygen	<u>)</u> brain is ce is <u>de: H₂O2</u> ra	H H		`Н ^о ∕_
 Easily breaks down hydrogen gas & ox Used as an antisep medicine 	n into kygen gas tic in		0	Π
Oxygen Gas: - 20.8% of Earth's atr - Used in cellular res	<u>O</u> 2 nosphere piration	0		ΞΟ
Ozone: O ₃ - Pale blue gas with a smell - Harmful for us to b - Protects us from L	a pungent reath JV rays	0	0,	C





Atom	Quantity	Color
Hydrogen (H)		White
Oxygen (O)	3	Red
Sodium (Na)		Grey
Chlorine (Cl)		Green
Carbon (C)		Black
Long bonds	2	Gray
Short bonds	4	Light Gray

 Sodium Hydroxide: NaOH Toxic and corrosive Used to manufacture soaps, rayon, paper & explosives. 	Na ^O . _H
<u>Sodium Chloride: NaCl</u> - Common table salt	Na—ci
 <u>Sodium Bicarbonate: NaHCO₃</u> Baking soda Reacts with acid to create carbon dioxide gas (bubbles) 	Na—O _C OH



Atom	Quantity	Color
Iron (Fe)/Calcium (Ca)	2	Grey
Oxygen (O)	3	Red
Chlorine (Cl)	3	Green
Long bonds	4	Gray
Short bonds	3	Light Gray





Atom	Quantity	Color
Carbon (C)	2	Black
Oxygen (O)	2	Red
Hydrogen (H)	6	White
Short bonds	7	Light Gray
Long bonds	4	Gray





Atom	Quantity	Color
Carbon (C)	2	Black
Oxygen (O)	2	Red
Calcium (Ca)		Grey
Hydrogen (H)	2	White
Long bonds	3	Gray
Short bonds	4	Light Gray

Calcium Carbide: CaC ₂ - Highly reactive to water.	CCa
 Produces acetylene gas when combined with water 	
<u>Acetylene Gas: C₂H₂</u> - Used in welding	$H-C\equiv C-H$
Calcium Hydroxide: Ca(OH) ₂ - Used in mortars, plasters and cement	H _O -Ca-O ^{-H}



Atom	Quantity	Color
Nitrogen (N)	2	Blue
Oxygen (O)	3	Red
Hydrogen (H)	3	White
Long bonds	3	Gray
Short bonds	3	Light Gray



- 78% of the air we breath
- Present in all living things
- Found in proteins <u>Ammonia: NH</u>₃
- Found in household cleaners
- Used in the manufacturing of plastics, explosives, textiles, pesticides, dyes, etc.

Nitrate: NO₃

- Nitrates are preservatives for meat to keep bacteria from growing.





Atom	Quantity	Color
Oxygen (O)	4	Red
Hydrogen (H)	2	White
Sulfur (S)		Yellow
Short bonds	6	Light Gray
Long bonds	4	Gray





Atom	Quantity	Color
Manganese (Mn)	1	Grey
Oxygen (O)	2	Red
Hydrogen (H)	4	White
Carbon (C)	2	Black
Short bonds	6	Light Gray
Long bonds	4	Gray





Atom	Quantity	Color
Carbon (C)	6	Black
Oxygen (O)	6	Red
Hydrogen (H)	12	White
Short bonds	22	Light Gray
Long bonds	2	Gray

$\underline{\mathsf{Glucose:} C_6 H_2 O_6}$

- Simple Sugar
- Product of photosynthesis
- Stored in plants
- Broken down in cellular respiration to produce energy

