

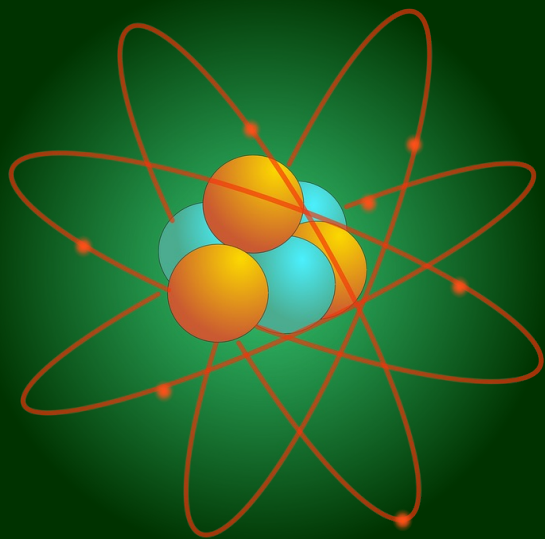
Speed Quizzing

Write the formula for the following compound - Phosphorus trifluoride.



These consist of atoms that share their electrons to create bonds.

Molecular compounds



A fast-moving review activity where students quiz each other, swap cards, then move on to someone new.

Chemistry Unit: Atoms, Compound Naming, and Chemical Reactions

32 Questions

Speed Quizzing - Chemistry Unit - Atoms, Compound Naming, and Chemical Reactions

You'll need a periodic table to complete this activity.

_____ is any substance that has both mass and volume.	Provide an example of a quantitative property.
Matter	Anything with a quantity - i.e. 100 kg, 10°C
Draw the Lewis Structure for a nitrogen atom.	Contains the protons and neutrons but not the electrons.
	Nucleus
What two subatomic particles determine an atom's weight? Which doesn't?	_____ are the electrons in the outer energy level (orbit) of an atom.
Protons and Neutrons (do), Electrons (don't)	Valence
Name the following compound. $AlCl_3$	Write the formula for the compound.
Aluminum chloride	_____ are formed when one or more atoms give up or share electrons.
Atoms with positive or negative charge are called _____.	Ionic compounds
ions	The correct formula for the compound is _____.
Write the formula for the following compound - iron (III) bromide.	sodium
$FeBr_3$	

Name the following compound. Na_2CO_3	Name the following compound. Fe
Sodium carbonate	Iron (II)
These consist of atoms that share their electrons to create bonds.	Write the formula for the compound. $trifluoromethane$
Molecular compounds	Fluorine
Describe diatomic gases.	_____ occur when atoms share or split apart to form a substance.
Diatomic gases are compounds that consist of two identical atoms bonded together to form a gas.	Chemical reactions
Write the formula for the following compound - Silver phosphate	A _____ is a type of chemical reaction where the chemical formula and properties of the substances change.
Ag_3PO_4	chemical reactions
A _____ has the same number of each element on both sides of the equation.	What kind of reaction is shown below? $Cu_{(s)} + AgNO_{3(aq)} \rightarrow$
balanced equation	Single Replacement
In a _____ reaction, A is combined with B to make AB.	In a _____ reaction, AB is broken down to create A and B.
synthesis	decomposition
What kind of compound releases hydroxide ions in water?	What kind of reaction is shown below? $Pb(NO_3)_2(aq) + 2KI(aq) \rightarrow 2KNO_3(aq) + PbI_2(s)$
Base	Double Replacement

This is excreted by the stomach lining and can cause to heartburn.	What does pH represent?
Hydrochloric acid (HCl)	pH is a measure of how acidic a substance is.
What pH is considered: Acidic, Basic, and Neutral?	These chemicals change colour when they are placed in acidic or basic solutions.
Acidic = <7, Basic = 7>, and Neutral = 7	Indicators
Write down the chemical equation for a neutralization reaction.	An aluminum ion has _____ (#) _____ (more/less) electrons than its stable atom version and is written: _____
Acid + Base $\rightarrow$ Salt + Water	3, less, Al^{3+}

- ✓ Challenge your students!
- ✓ Questions cover material directly from the lessons
- ✓ Get students up and moving around
- ✓ Very little preparation required

How to Implement

- Provide each student with a flash card
- Pair up students using the stand up/hands up/pair up method
- Partner A reads the question to Partner B, who answers. Partner A praises if correct or coaches if incorrect.
- Partners switch roles
- Students thank each other and switch cards.
- Partners raise their hands to find a new partner.
- Repeat for specified amount of time

Why Use Speed Quizzing?

- Prompts meaningful student conversation
- Review prior knowledge
- Review new terms/problems after a unit
- Gather student ideas
- Remediate weak skills
- Practice new skills