FUNDAMENTAL IDEAS

Atoms and Atomic Structure

All substances are made of atoms. Atoms contain three sub-atomic particles: protons, neutrons and electrons.

	Relative Charge	Relative Mass	
Proton	+1 (Positive charge)	10	
Neutrons	(b (No charge)	1	
Dictron	-I (Nepative charge)	1/2000 (Negligible)	

At the centre of an atom is its mucleus. The nucleus contains protons and neutrons. Protons are positively charged, and neutrons have no charge, so the overall charge on an atomic nucleus is positive. Electrons surround the nucleus. Electrons are negatively charged. The number of protons in an atom is equal to the number of electrons in it, so the charges cancel each other out, so there is no overall charge on an atom.

The atomic number of an electron is the number of protons in its atom. The mass number of an element is the sum of the neutrons and protons in its atom. Electrons are not counted in the mass number because their relative mass is very small.

Elements and the Periodic Table

A substance made up of only one type of atom is called an element. There are about a hundred different elements found naturally on Earth. Elements combine in different ways to form different substances. An atom of each element is represented by a chemical symbol, for example, O represents oxygen. The periodic table is a table of all the known elements, sorted in order of increasing atomic number. The columns in the periodic table are called groups. All the elements in a group have the same number of electrons in the highest energy level (outcomest shell), and have similar properties.

Electronic Structure

Electrons surrounding the macleus in an atom are arranged in shells, or energy levels. The first and lowest energy level of an atom can hold only 2 electrons. The second energy level holds up to 8 electrons. The third energy level holds up to 8 electrons, and so on. The way electrons are arranged in atoms can be represented by writing an electronic structure, or drawing an electron shell diagram. You need to know the electronic structures and shell diagrams for the first 20-elements. Examples:



Chemical Bonding

Most substances are made up of many different elements. Different atoms chemically bond together to form compounds. Chemical Bonding involves giving, taking or sharing electrons, to form ions or molecules. The atoms react to attain the structure of a noble gas; a complete outermost shell.

Non-metals and metals react by transferring electrons. This is called ionic bonding. The metal atom will give electron's to the non-metal atom. So the metal will become a positively charged ion. The non-metal will become a negatively-charged ion. The oppositely-charged ions will be attracted to each other.

Non-metals react with each other by sharing efections. This is called covalent bonding. The outermost shells overlap, so they share electrons, forming covalent bonds. Molecules are formed.

Chemical Equations

Chemical reactions can be represented by word equations or by symbol equations. Equations tell us the reactants and the products in a chemical reaction. Symbol equations are used so anyone can read them, regardless of language, and also as they show the number of each type of atom in the reaction.

In a chemical reaction, atoms simply get swapped around. No atoms are lost or made during a chemical reaction so the mass of the products equals the mass of the reactants. You can check if a chemical equation is balanced by counting the number of each type of atom on each side of the equation. If they are equal, then the equation is balanced.

Balancing Chemical Equations ! Higher Tier :

A common exam question may ask you to balance an equation. You need to write the equation so that there are the same numbers of each type of atom on either side of the equation. But you cannot change the formula for the compounds themselves – you can only change the number of each compound. For example, hydrogen and oxygen form some. The unbalanced equation is: $H_2 * O_2 \rightarrow H_1O$, In this case, the number of oxygen atoms is unbalanced. The easiest way to balance it would be make the product H_1O_2 but that would be changing the compound itself, which you cannot do. There are two oxygen atoms on the left, but only one on the right. The only thing we can do is have two water molecules. So now we have $H_2 * O_2 \rightarrow 2H_1O$. Now the number of oxygen atoms is balanced, but there are two hydrogens on the left, and four on the right. We can fix this by having two hydrogen molecules. We now have: $2H_2 * O_2 \rightarrow 2H_1O$. There are the same numbers of hydrogen and oxygen atoms on each side. The equation is now balanced. Try balancing this: $Al * O_2 \rightarrow Al_2O_2$.

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web jan 30 2021 blindspot un beşinci sezonunun ne hakkında olduğunu anlamak için hafızanızı tazelemek ve dördüncü bölümün son bölümündeki olayları hatırlamak gerekiyor dördüncü sezon finalinde neler olduğunu hatırlamak gerekir İşte dizinin geleceği hakkındaki fikirlerinizi netleştirecek son bölümün kısa bir özeti

blindspot 2015 turkcealtyazi org türkçe altyazı - Feb 02 2022

web sep 2 2015 Özet hafızasını kaybetmiş halde times meydanı nın ortasında tüm vücudu dövmelerle kaplı halde bulunan jane doe isimli bir kadını ve onunla ilgilenen fbi ekibinin hikayesi kurt weller isimli bir ajanının koruması altına aldığı jane in vücudunda bulunan dövmelerin bir suç haritası gibi olduğu ve her bir dövmenin

blindspot rotten tomatoes - Aug 08 2022

web sep 21 2015 synopsis when jane doe is found naked in times square with her memory erased and her body covered in fresh tattoos agent kurt weller and his fbi team are instantly drawn to the case together

blindspot tv series 2015 2020 episode list imdb - Jul 07 2022

web mon oct 19 2015 after a seemingly straightforward hostage situation turns out to have deeper international implications the cia and fbi find themselves racing against each other to apprehend the same criminal with a dark history carter expresses concern about jane s trustworthiness causing friction with mayfair and testing reade s loyalty

blindspot dizi 2015 sinemalar com - Oct 10 2022

web nbc nin yeni dizisi blindspot polislerin times meydanında bir bavulun içinde hafızasını kaybetmiş ve vücudunda çeşitli dövme ve isimler bulunan jane doe u bulması ile birlikte yaşanacak olayları konu alıyor gizemli kadının vücudunda bulunan dövmelerden birinde fbi ajanı kurt weller ın da isminin olması işleri daha çok

blindspot vikipedi - Jul 19 2023

web blindspot 21 eylül 2015 ten bu yana nbc de yayınlanan bir abd suç drama televizyon dizisidir oyuncular sullivan stapleton kurt weller jaimie alexander remi jane doe briggs rob brown edgar reade audrey esparza natasha tasha zapata ashley johnson patterson ukweli roach robert borden

list of blindspot episodes wikipedia - Sep 09 2022

web blindspot is an american crime drama television series created by martin gero starring sullivan stapleton and jaimie alexander the series was ordered by nbc on may 1 2015 and premiered on september 21 2015

blindspot blindspot wiki fandom - Apr 04 2022

web blindspot is an american mystery drama tv show that originally aired on nbc in september 21 2015 based in new york the show revolves around jane doe jaimie alexander and fbi team lead by special agent kurt weller sullivan stapleton also starring rob brown as edgar reade audrey esparza

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