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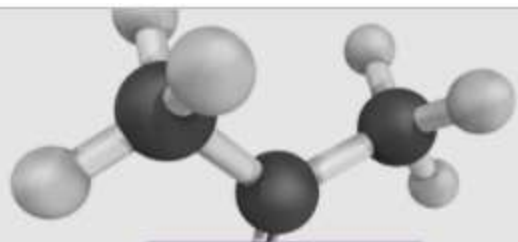
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* لتحميل كتب جميع المواد في جميع الفصول للـ الصف السابع اضغط هنا

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للتحدث إلى بوت المناهج على تلغرام: اضغط هنا

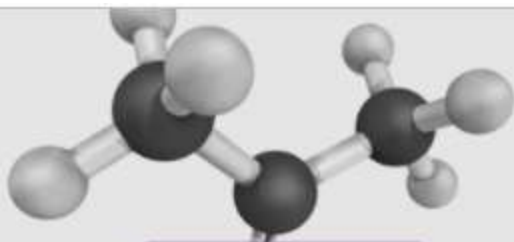
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REVIEW LESSON



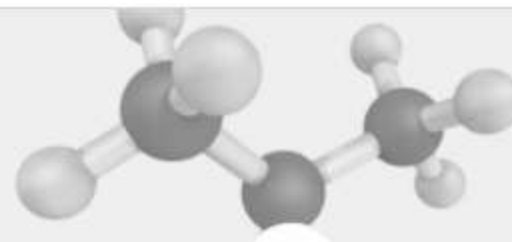
14. Classifying Matter Part 1: Matter



REVIEW LESSON



15. Classifying Matter Part 1: Elements and Compounds



16. Classifying Matter Part 1: Pure Substances and Mixtures

Where is most of the mass in an atom located?

ATTEMPT 1

In the electron cloud

Atoms do not have mass.

In the nucleus



Electrons account for most of the mass of an atom.

The definition “the building blocks of matter” describes which word?



ATTEMPT 1

Nucleus

Proton

Atom



Electron

What is a proton?

ATTEMPT 1



A particle in an atom with a positive charge.



A particle in an atom with a negative charge



A particle in an atom with no electric charge.



A particle only found in space.

Fill in the blank with the correct term.

1. Proton



are in the nucleus and they are positively charged.

2. Neutrons



are in the nucleus and they do not have a charge.

3. Electrons



are not in the nucleus and they are negatively charged.

✚ Elements

✚ Atoms

Fill in the blank with the correct term.

1. Matter ✓ is anything that has mass and takes up space.

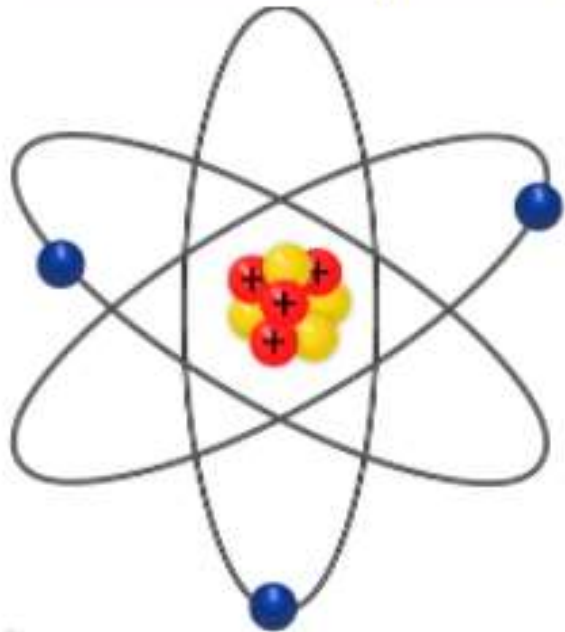
2. Atoms ✓ are the smallest unit of matter.

The 3. Nucleus ✓ is the center of an atom.

✚ Elements

✚ Electron

Which subatomic particle is the smallest and lightest?



ATTEMPT 1

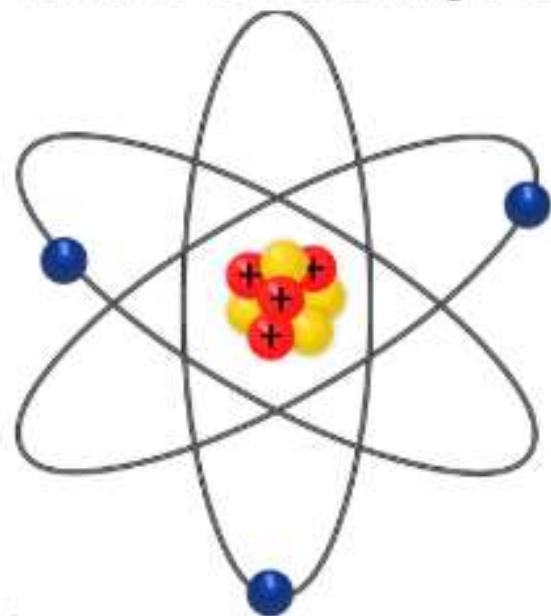
The electron ✓

The nucleus

Atoms do not have a mass.

The protons

Which of the following is located inside of an atom?



ATTEMPT 1

Elements

Chemical bonds

Atomic mass

Protons and neutrons



Which of the following substances is a compound?



ATTEMPT 1

oxygen

helium

carbon dioxide ✓

nitrogen

Which term describes a substance made of only one kind of atom or compound?

ATTEMPT 1



mixture



subscript



chemical formula



pure substance

Which of these is a pure substance?

ATTEMPT 1

air

steel beam

rust

gold nugget ✓

Which of the following examples is a pure substance?

ATTEMPT 1



iron



lemonade



salt water



steel

Salt water is an example of a(n):



ATTEMPT 1

mixture



pure substance

element

compound

Which of the following substances can be identified as a compound and also a pure substance?



ATTEMPT 1

salt water

steel

table salt ✓

lemonade

If two atoms have the same number of protons, neutrons, and electrons, what is true about the two atoms?

The two atoms are different.

The two atoms are the same. ✓

Matter and protons, neutrons, and electrons are not related. ✗

This doesn't say anything about the two types of matter.

How do compounds differ from mixtures?



Compounds are chemically combined.



Compounds are made by pouring two liquids together.



Compounds are just two elements.



Compounds mix two things together.

Which of the following is an example of a pure substance?

air



salt water

salad

table salt



What is the meaning of the term compound?

An element found on the periodic table.

A compound is a mixture.

A single element.

A substance made up of two or more different elements that are chemically combined. ✓

What are the substances found in the periodic table called?

Periodic Table of the Elements

The image shows a standard periodic table of elements. The elements are color-coded into groups: Hydrogen (H) is yellow; the first two columns (Li, Be and Na, Mg) are light blue; the transition metals (Sc to Zn) are teal; the post-transition metals (Ga to Hg) are light green; the nonmetals (B, C, N, O, F, Ne to At) are yellow; and the noble gases (He, Ar, Kr, Xe, Rn, Og) are light yellow. The lanthanide and actinide series are shown in pink at the bottom.

alloys

mixtures

elements

compounds

What is the **best** definition of matter?



ATTEMPT 1



Anything that has mass and takes up space. ✓



A pure substance that takes up space.



Anything that has mass but does not take up space.



Substances that can be physically separated from one another.

Which of the following accurately describes the relationship between matter and atoms?

ATTEMPT 1

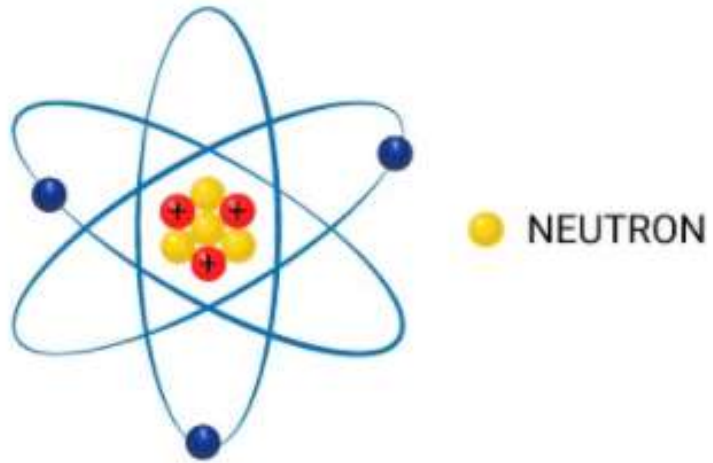
All atoms are made of compounds.

Only some matter is made of atoms.

Matter is not made of atoms.

All matter is made of atoms. ✓

Which of the following **best** describes a neutron?



ATTEMPT 1



A particle in the nucleus of an atom with a negative charge.



A neutral particle that orbits the nucleus of an atom.



A particle in the nucleus of an atom with no electric charge. ✓



A particle in the nucleus of an atom with a positive charge.

Which particles are located in the nucleus of an atom?

ATTEMPT 1



Protons are located in the nucleus of an atom.



Protons and electrons are located in the nucleus of an atom.



Protons, neutrons, and electrons are located in the nucleus of an atom.



Protons and neutrons are located in the nucleus of an atom.



What particles orbit around the nucleus?

ATTEMPT 1



Protons, neutrons, and electrons are in orbit around the nucleus.



Electrons are in orbit around the nucleus. ✓



Protons and electrons are in orbit around the nucleus.



Protons and neutrons are in orbit around the nucleus.

Which particles in an atom orbit the nucleus?

Protons and electrons

Neutrons

Electrons 

Protons

Which of the following describes the relationship between different types of atoms and the number of protons, neutrons, and electrons?

Different types of atoms have varying numbers of protons, neutrons, and electrons ✓

Atoms are not made of protons, neutrons, and electrons

Atoms are only made of protons.

Different types of atoms have the same numbers of protons, neutrons, and electrons

Which one of the following is correct about an electron?

A particle only found in outer space.



A negatively charged particle that orbits the nucleus of an atom. ✓

It is a particle in an atom with no electric charge.



An electron is a subatomic particle with a positive charge.

What is an element?

Periodic Table of the Elements

H																				He
Li	Be											B	C	N	O	F				Ne
Na	Mg											Al	Si	P	S	Cl				Ar
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br				Kr
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I				Xe
Cs	Ba		Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At				Rn
Fr	Ra		Rf	Db	Sg	Bh	Hs	Mt	Ds	Rg	Cn	Nh	Fl	Mc	Lv	Ts				Og
		La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu				
		Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr				

ATTEMPT 1

A substance made up of one type of atom. ✓

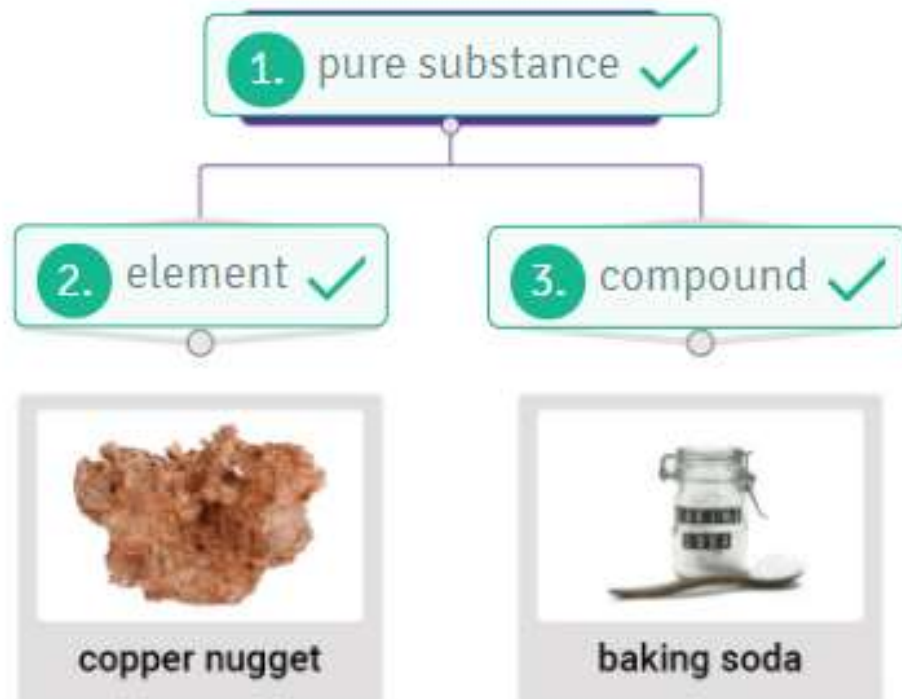
A substance that can be separated by physical means.

A compound that is made of the same elements.

A molecule that is made of two or more different atoms.

ATTEMPT 1

Drag and drop the words to categorize the substances.



✚ air

✚ salt water

Which describes the relationship between the properties of a compound and the properties of the individual elements that combine to form them?

Periodic Table of the Elements

H																	He
Li	Be											B	C	N	O	F	Ne
Na	Mg											Al	Si	P	S	Cl	Ar
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe
Cs	Ba	--	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn
Fr	Ra	--	Rf	Db	Sg	Bh	Hs	Mt	Ds	Hg	Cn	Nh	Fl	Mc	Lv	Ts	Og
La Ce Pr Nd Pm Sm Eu Gd Tb Dy Ho Er Tm Yb Lu																	
Ac Th Pa U Np Pu Am Cm Bk Cf Es Fm Md No Lr																	

ATTEMPT 1

The properties of compounds are very different from the properties of the elements that combined to form it. ✓



The compound is always the same color as the elements that forms it.



Compounds are always poisonous.




The properties of compounds are very similar to the elements that combine to form them.

Which one of the following is example of a mixture?

sodium chloride (table salt)

carbon dioxide

water

salad 

A salad is a mixture because you can separate the different items in a salad.

Fill in the blank with the correct term.

In a , there is only one kind of element or compound.

A is made up of two or more elements chemically bonded together.

An cannot be broken down into simpler substances by chemical reactions.

Which of the following examples is an element?

air

nitrous oxide gas

citric acid

oxygen 

