Name:	

Bill Nye: Atoms

Vocabulary

atom	electron	element	matter	molecule	neutron	nucleus	proton	quark
Use the	word bank ab	ove to fill in th	ne blanks.					
1. Anytl	1. Anything that has mass and takes up space is							
2. A pos	2. A positively charged particle in an atom is the							
3. A(n) properties	es of the comp	oound.		is the smal	lest unit of a c	chemical com	pound that r	etains the
4. A(n)			i	s matter that is	s composed o	f only one kir	nd of atom.	
5. A neg	gatively charg	ged particle in a	an atom is t	he			·	
6. A(n) of that el	lement; the bu	uilding blocks	of matter.	_ is the smalle	est particle of	an element th	at retains th	e properties
7. A par	ticle with no	charge that is	found in an	atom is the _			_·	
8. An el	ementary part	ticle that make	es up protor	ns & neutrons	is a(n)			
9. The _			is the	core of the ato	m, made up o	f protons & n	eutrons.	
Knew/New Write down 3 things you <u>already knew</u> about chemical reactions that were confirmed through watching the video:								
1.								
2.								
3.								
1.		Write down 3	new things	s that you learn	ned from wate	ching the vide	: O:	
2.								
3								

Episode Guide

1. What doe	es the Greek word for atoms mean?					
2. The heav	y particles of an atom are located			•		
3. Atoms ar	re mostly made up of		_•			
4	& are located in the nuc	cleus of an	atom.			
5. Where an	re the electrons found?					
6. Atoms ar	6. Atoms are so small that you could fit how many on the head of a pin?					
7. What ma	7. What makes 1 atom different from another?					
8. What doe	es the atomic number tell you about an element?					
9. Anything	g that is not matter is a form of	•				
10. What el	ement is found in every living thing?					
	or False					
1. Atoms ar	re mostly empty space.	T	or	F		
2. Each elei	ment has a specific number of protons in the nucleus.	T	or	F		
3. Electrons	s are the largest particles in an atom.	T	or	F		
4. A branch	of chemistry is named after oxygen.	T	or	F		
5. Heat is a	form of matter.	T	or	F		
6. Neutrons	are negatively charged.	T	or	F		
7. A quark	is a small particle that makes up protons & neutrons.	T	or	F		
8. The atom	nic number tells you the number of electrons in the nucleus of an atom.	T	or	F		
9. Energy is	s anything that has mass & takes up space.	T	or	F		
10. Protons	& electrons make up most of the mass of an atom.	T	or	F		

Name: Answer Key

Bill Nye: Atoms

Vocabulary

atom	electr	on elemen	t matter	molecule	neutron	nucleus	proton	quark
Use t	he word ba	nk above to fill	in the blanks.					
1. A	nything tha	t has mass and	takes up space	is	matter		_•	
2. A	positively	charged particle	e in an atom is	the	proton		_·	
		molecule compound.		is the smal	lest unit of a	chemical com	pound that 1	retains the
4. A	(n)	element		is matter that i	s composed o	of only one kir	nd of atom.	
5. A	negatively	charged particle	e in an atom is	the	electro	n	·	
		atom the building blo		is the small	est particle of	an element th	at retains th	e properties
7. A	particle wi	th no charge tha	at is found in a	n atom is the _	neuti	ron	_·	
8. A	n elementai	ry particle that r	nakes up proto	ons & neutrons	is a(n)	quark	<u> </u>	·
9. Th	ne	nucleus	is the	core of the ato	m, made up o	of protons & n	eutrons.	
Knew/New Write down 3 things you <u>already knew</u> about chemical reactions that were confirmed through watching the video:								
 2. 	Answers	will vary.						
3.								
1.		Write dov	wn 3 <u>new</u> thing	gs that you lear	ned from wat	ching the vide	:O:	
2.	Answers	will vary.						
2								

Episode Guide

1. What does the Greek word for atoms mean?"uncuttable"	
2. The heavy particles of an atom are located nucleus	·
3. Atoms are mostly made up of empty space	
4. Protons & neutrons are located in the	e nucleus of an atom.
5. Where are the electrons found? outside of the nucleus	
6. Atoms are so small that you could fit how many on the head of a pin?	1 million
7. What makes 1 atom different from another? the number of protons i	n the nucleus
8. What does the atomic number tell you about an element? the number	per of protons in the nucleus
9. Anything that is not matter is a form of energy	
10. What element is found in every living thing? carbon	
True or False	
1. Atoms are mostly empty space.	T or F
2. Each element has a specific number of protons in the nucleus.	T or F
3. Electrons are the largest particles in an atom.	T or F
4. A branch of chemistry is named after oxygen.	T or F
5. Heat is a form of matter.	T or F
6. Neutrons are negatively charged.	T or F
7. A quark is a small particle that makes up protons & neutrons.	T or F
8. The atomic number tells you the number of electrons in the nucleus of an atomic	om. T or F
9. Energy is anything that has mass & takes up space.	T or F
10. Protons & electrons make up most of the mass of an atom.	T or F