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Name: KEY Date: _____

Counting Atoms Worksheet 2

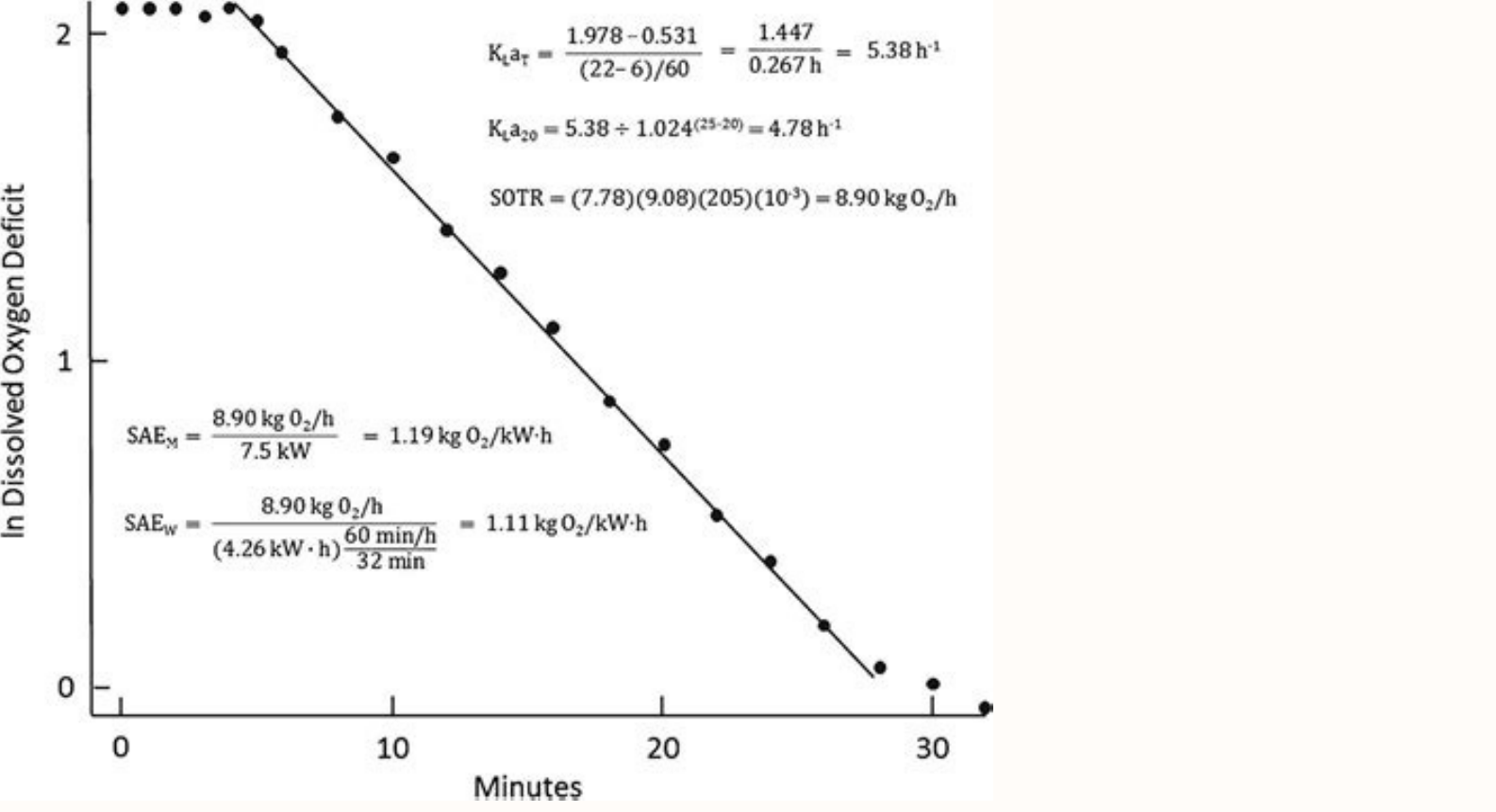
Chemical Formula	Number of Elements	Number of atoms of each element	Total Number of Atoms
1. $C_6H_{12}O_6$	3	C = 6 H = 12 O = 6	24
2. $5Ca(OH)_2$	3	Ca = $1 \times 5 = 5$ O = $1 \times 2 = 2 \times 5 = 10$ H = $1 \times 2 = 2 \times 5 = 10$	25
3. $2NH_4Cl$	3	N = $1 \times 2 = 2$ H = $4 \times 2 = 8$ Cl = $1 \times 2 = 2$	12
4. $7Mg(OH)_2$	3	Mg = $1 \times 7 = 7$ O = $1 \times 2 = 2 \times 7 = 14$ H = $1 \times 2 = 2 \times 7 = 14$	35
5. $Na_2S_2O_3$	3	Na = 2 S = 2 O = 3	7
6. $3Zn(NO_3)_2$	3	Zn = $1 \times 3 = 3$ N = $1 \times 2 = 2 \times 3 = 6$ O = $3 \times 2 = 6 \times 3 = 18$	27
7. $10Ca(CN)_2$	3	Ca = $1 \times 10 = 10$ C = $1 \times 2 = 2 \times 10 = 20$ N = $1 \times 2 = 2 \times 10 = 20$	50

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2 ATOMIC THEORY: ISOTOPES

Complete the following table.

Isotope Name		Atomic Number	Mass Number	Symbol	Number of Protons	Number of Neutrons
1.	carbon-14	6	14	$^{14}_6C$	6	8
2.	oxygen-16	8	16	$^{16}_8O$	8	8
3.	polonium-112	84	212	$^{212}_{84}Po$	84	128
4.	uranium-238	92	238	$^{238}_{92}U$	92	146
5.	hydrogen-2	1	2	2_1H	1	1
6.	helium-4	2	4	4_2He	2	2
7.	thorium-232	90	232	$^{232}_{90}Th$	90	142
8.	carbon-12	6	12	$^{12}_6C$	6	6
9.	lawrencium-257	103	257	$^{257}_{103}Lr$	103	154
10.	hydrogen-1	1	1	1_1H	1	0



Name: _____ Date: _____ Period: _____

Bill Nye: Atoms & Molecules

- What are found in everything, tiny, filled with empty space & the building blocks of matter? _____
- The word "atoms" comes from a Greek word that means _____.
- _____ is the middle of the atom.
- The nucleus contains _____ & _____
- Protons have a _____ charge.
- Neutrons have _____ charge
- Buzzing around the outside of the nucleus are very small particles called _____. (Electrons have a _____ charge)
- Everything that is made of atoms, everything that you touch and feel is mostly _____.
- _____ are like letters and molecules are like _____.
- What makes 1 atom different from another? The number of _____ in the _____.
- The _____ _____ is the number of protons in the nucleus.
- There are ____ elements that occur naturally.
- Everything in the universe is either _____ or _____.
- Everything that's a thing is _____.

Teacher Notes

Name Key Class _____ Date _____

Atomic Structure

Subatomic Particles in Neutral Atoms

The table below contains information about several isotopes. Use the information given to fill in the blanks. Assume all atoms are neutral.

Isotope Name	Nuclear Symbol	Atomic Number	Mass Number	# of Protons	# of Neutrons	# of Electrons
1. calcium-40	$^{40}_{20}\text{Ca}$	20	40	20	20	20
2. iron-56	$^{56}_{26}\text{Fe}$	26	56	26	30	26
3. oxygen-18	$^{18}_8\text{O}$	8	18	8	10	8
4. gold-197	$^{197}_{79}\text{Au}$	79	197	79	118	79

Subatomic Particles in Ions

The table below contains information about several ions. Use the information given to fill in the blanks.

Element Name	Ion Symbol	Atomic Number	Mass Number	# of Protons	# of Neutrons	# of Electrons
5. chlorine	Cl^-	17	35	17	18	18
6. silver	Ag^+	47	107	47	60	46
7. oxygen	O^{2-}	8	16	8	8	10
8. aluminum	Al^{3+}	13	27	13	14	10

Average Atomic Mass

9. Calculate the average atomic mass for neon if its abundance in nature is 90.5% neon-20, 0.3% neon-21, and 9.2% neon-22.

$$\frac{(90.5)(20 \text{ amu}) + (0.3)(21 \text{ amu}) + (9.2)(22 \text{ amu})}{100} = 20.18 \text{ amu}$$

10. Calculate the average atomic mass of silver if 13 out of 25 atoms are silver-107 and 12 out of 25 atoms are silver-109.

$$\frac{(13)(107 \text{ amu}) + (12)(109 \text{ amu})}{25} = 107.96 \text{ amu}$$

Covers the following skills: Describe the structure of atoms, including the masses, electrical charges, and locations, of protons and neutrons in the nucleus and electrons in the electron cloud. So we tried to locate some good Atoms And Ions Worksheet Answer Key picture for you. The number of electrons defines the atom's chemical properties, like its melting temperature and boiling point. 11 CHAPTER REVIEW WORKSHEET Introduction to Atoms CHAPTER USING VOCABULARY The statements below are false. Check your knowledge about atoms and subatomic particles using this multiple choice quiz and printable worksheet. Take answers from the class then read the "What is Energy" poem to the class. Diagram the ionic bonding process from neutral atoms to ions showing the valence electrons and indicating with arrows the direction in which the electrons are going. Complete the following table: Symbol Symbol-Mass Number Atomic # Mass # # protons # neutrons # electrons 3Li 7 Mo-96 49 53 72 35 92U Answer the following questions. Counting Atoms Worksheet Chemistry Worksheets Chemistry Lessons High School Chemistry Science Chemistry Middle School Science Science Ideas This worksheet will serve as a practice to help students distinguish one element from another in a variety of chemical formulas. We need to learn in detail about these bonds and how they influence the properties of matter. Some of the worksheets displayed are Atoms and molecules, Atoms elements molecules compounds and mixtures, An atom apart, Lesson physical science atoms and molecules, Chemistry molecules compounds lesson review work, Type of matter definition sample drawing symbolformula, Elements compounds and mixtures, Introduction to chemistry atoms and elements. 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Dec 06, 2017 - atoms vs ions worksheet answer key awesome naming atoms lab 1 rshsn what is an ion definition and examples atoms vs ions worksheet answers inspirational isotopes ions and atoms vs ions worksheet answer key awesome nuclear chemistry worksheets 49 best build an atom phet lab worksheet answers hd protons neutrons and electrons worksheet fresh 30. Louisiana Education Standards. Matter is anything that takes up space and has mass. Answers may vary: Isotopes have more neutrons than a stable atom of the same element. Water (H₂O) is composed of two atoms of hydrogen (H) and one atom of oxygen (O). Students indicate the differences in isotopes of atoms and what the atomic number and mass number represent. There are over 100 elements known to us, and scientists are still working hard to try and discover new elements. Be sure to write units with every number and to use the correct number of significant figures. Build an Atom: Introduction. Start studying Introduction to Atoms. Introduction to matter. Use the following clues to help you. Use your periodic table. Introduction to Atoms Worksheet. Elements contain only ONE type of atom. There are four major types of bonds. Click the Print button. An atom apart worksheet answer key. In the mean time we talk related with Macromolecules Review Worksheet Answer Key, we've collected various variation of images to give you more ideas. Example: Some carbon atoms have six neutrons, some have seven neutrons, and some have eight neutrons. Some of the worksheets displayed are An atom apart, Atomic structure work, Introduction to matter answer key, Atoms and molecules, Introduction to chemistry atoms and elements, 090412 atomic structure work 1, Introduction to energy work, Lesson plan introducing the atom. 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Subatomic Particles for Atoms, Ions and Isotopes-Practice Use your periodic table to complete this worksheet. *NOTE: when you are finished, you should have 3 atoms, 6 ions and 6 isotopes. Subatomic Particles for Atoms Ion and Isotopes ws (practice) KEY.docx Date 2020-06-16 Version 9.24.13 Size 85.3 Mb Downloads 365 Votes 9.4/10 Schrodinger predicted that electrons had electromagnetic energy, meaning that they can behave both like a _____ and a _____. To view many images throughout 31 Introduction to Energy Worksheet Answer Key images gallery please adhere to this link. Introduction To Atoms Some of the worksheets for this concept are An atom apart, Atomic structure work, Introduction to chemistry atoms and elements, An introduction to atoms, Introduction to matter answer key, Lesson plan introducing the atom, 20 introduction to the mole, Bohr model work. An atom is the smallest unit of matter that retains all of the chemical properties of an element. 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