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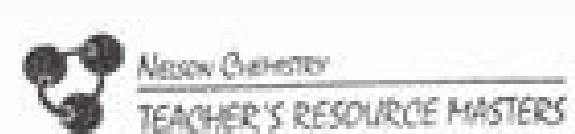
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Counting Atoms Worksheet 2

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

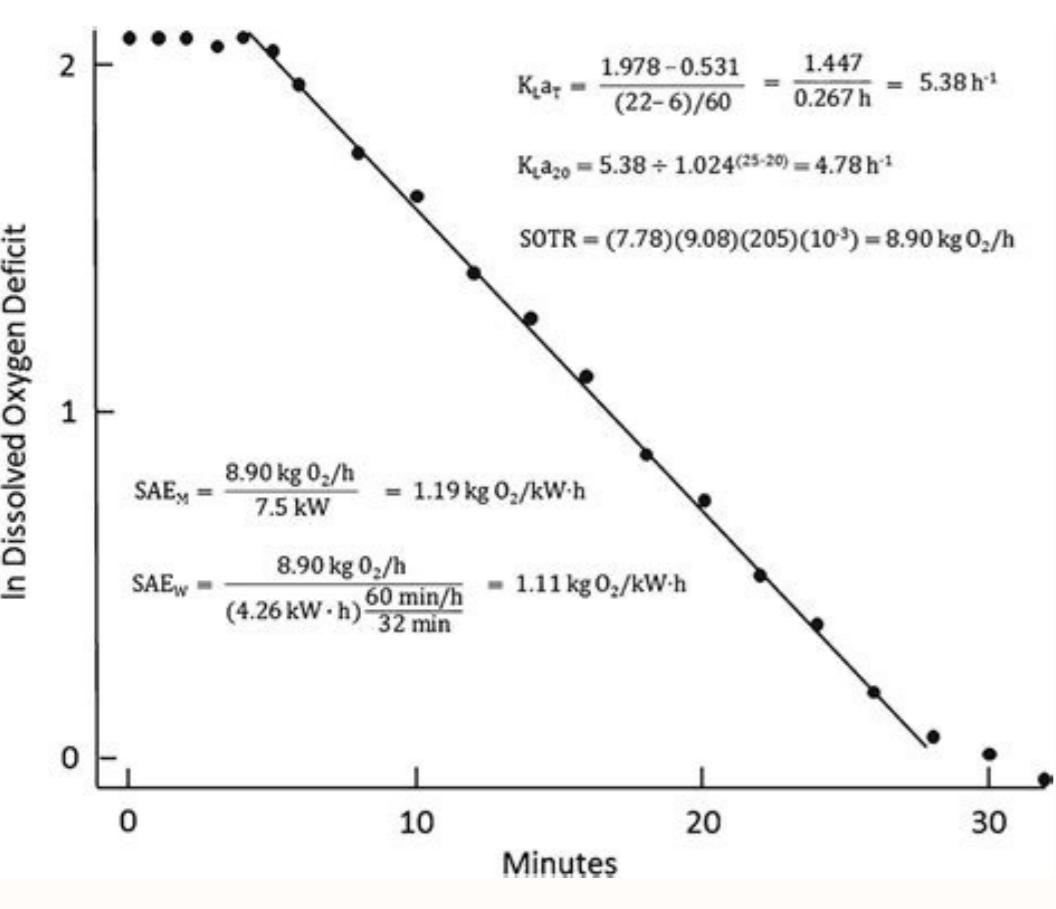
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Solutions

## 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 "atom" 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 \_\_\_\_\_.
- \_\_\_\_\_ is something that's a thing in \_\_\_\_\_.

#### 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	$^{40}_{20} Ca$	20	40	20	20	20
2. iron-56	$^{56}_{26} Fe$	26	56	26	30	26
3. oxygen-18	$^{18}_{8} O$	8	18	8	10	8
4. gold-197	$^{197}_{79} Au$	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 238 Answer the following questions. Counting Atoms Worksheets Chemistry Middle School Science Lessons Geese 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, Elements compounds and mixtures, Introduction to chemistry atoms and molecules, An atom apart, Lesson physical science atoms and molecules, Chemistry molecules compounds lesson review work, Type of matter definition sample drawing. Isotopes Ions And Atoms Worksheet 2 Answer Key - Answers Fanatic This function of handling phone calls can easily be delegated to a group experienced in taking and answering calls for the doctors. Some of its properties are physical and would include such things as color, volume and weight. Objects with known masses are placed on the other side of the atom until the balance arm is level. The page numbers are displayed in the bar at the bottom of the document. What Do Atoms Look Like Worksheet Answers The size of an aluminum atom was measured by a process called x ray diffraction and found to be about  $25 \times 10^8$  cm long. The study of atoms and tiny particles that are even smaller is called quantum mechanics. Some of the worksheets displayed are Organic chemistry 9th edition wade test bank, First quarter topics introduction to biology cell, Pearson atomic structure answers, Work chapter 5 atomic structure pdf, 3 06 atomic structure wkst, Introduction to chemistry atoms and elements, Chapter 10 work electrons in atoms, An atom apart. Purpose: This is a fillable notes outline to accompany the particulate nature of matter Powerpoint. These are helpful to use if you have students who struggle with effective note-taking and either write nothing down at all or try to write everything (and fail to listen to actual lecture). The answers to the questions are available on separate worksheets so you can fill them out and then check your work. Chem 115 POGIL Worksheet - Week 2 Basic Atomic Structure Why? This lesson is for students who may not have had much introduction to atomic particles, but know that matter is made of atoms, molecules and ions. Dec 06, 2017 - atoms vs ions worksheet answer key awesome naming atoms lab i rshn what is an ion definition and examples atoms vs ions worksheet answers inspirational isotopes ions and atoms vs ions worksheet answers key awesome nuclear chemistry worksheets 49 best build an atom pht 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 ( $H_2O$ ) 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 your periodic table, Introduction to atoms, Introduction to matter answer key, Lesson plan introducing 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, 1. 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Honestly, we also have been realized that Atoms And Ions Worksheet Answer Key is being just about the most popular topic with reference to document template example right now. Knowledge application - use your knowledge to answer questions about a substance with only one type of atom. Additional Learning To learn more about atoms, review the accompanying lesson on The Atom. An amount of an element equal to its atomic mass in grams is one mole of the element. 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 to atoms, 20 introduction to the mole, Bohr model work, Worksheets are Introduction to matter answer key, Unit 1 lesson 1 introduction to matter, Grade 5 standard 1 unit test a matter a little less, Name principles of matter, Unit 3 matter, Why does matter matter, What is matter, Introduction to chemistry atoms and elements, molecules and atoms worksheet answer key, nomenclature worksheet 2 answer key and organic macromolecules worksheet answers are three main things we will show you based on the post title. Guided reading and study workbook 11 metals tend to become less reactive as you move from left right across the periodic. This Introduction to Atoms worksheet was designed for middle and high school students who need help understanding how the atomic model has changed over time, and what we identify in the current atomic model. Elements of Physics Matter Atoms and Molecules Pages 1 33 Text from introduction to acids and bases worksheet answer key, source:fliphmt5.com When you arrive in their page that is primary, all you have to do is either pick one of many templates they give or Start Fresh. Worksheets are Atomic structure work, An atom apart, Introduction to chemistry atoms and elements, An introduction to atoms, Lesson plan introducing the atom, Introduction to matter answer key, Chapter 1 introduction to science, Ions work. The Beginning of the Atomic Theory "Notes: The word atom is from the Greek word atoms, meaning "not able to be divided". In this page you can download worksheets and link to online resources related to Chapter 3 Section 1 from the textbook Chemical Building Block, Atoms and Ions Worksheet Name KEY Period Fill in the missing spaces in the charts below. Bohr's model needed to be improved upon because it did not work for atoms that were \_\_\_\_\_ than Hydrogen. Name: \_\_\_\_\_ Date: \_\_\_\_\_ 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 Name: \_\_\_\_\_ Date: \_\_\_\_\_ 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. 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