Properties of Atoms and the Periodic Table

Section 1 Structure of the Atom CHAPTER 16 DRW

	2.
	A.3. A.
5	- 42
Review -	
Vocabulari	Define element to show its scientific meaning.
element	1
New	
	Note that the state of the stat
Ancengarity	Use your book or a dictionary to define the following terms.
	Use your book or a dictionary to define the following terms.
atom	Use your book or a dictionary to define the following terms.
atom	
atom	
nucleus	
nucleus	(5) 1-104 (1) 10
nucleus proton neutron	(5) 1-104 (1) 10
nucleus proton	(5) 1-104 (1) 10
nucleus proton neutron electron	A STAN MAN DISTRIBUTE DI PROPRIE
nucleus proton neutron	A STAN MAN DISTRIBUTE DI PROPRIE
nucleus proton neutron electron	A STAN MAN DISTRIBUTE DI PROPRIE

Section 1 Structure of the Atom (continued).

Main Idea

Scientific Shorthand

I found this information on page _____

Details

Identify some of the elements and their symbols by filling in the table. Reference a periodic table to help you.

Symbol	Name
Pt	
	tungsten
Rn.	
	iodinė
B.	
	lithium
Cu	
	cesium
Ni	· · · · · · · · · · · · · · · · · · ·
	lead
Es	
	helium

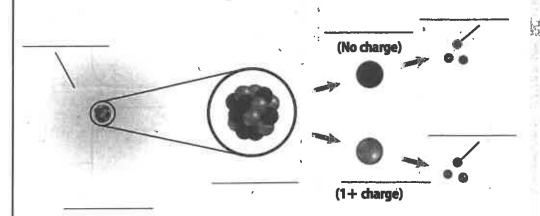
Subatomic Particles

I found this information on page

Complete the diagram showing how the parts of an atom are related.

atom
electron cloud

proton neutron nucleus quark



on page_

Section 1 Structure of the Atom (continued)

Main Idea

I found this information

Details '

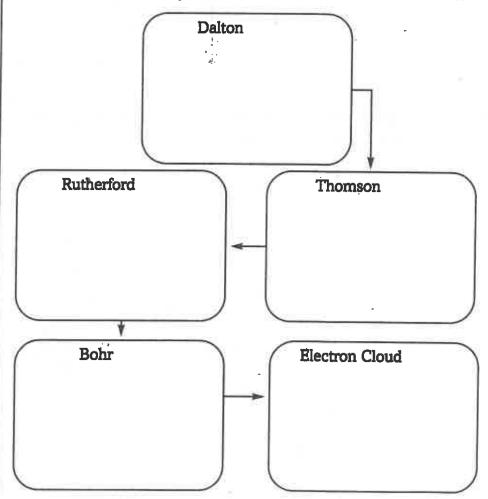
Summarize key ideas about quarks.

Theories about Quarks	Finding Quarks	
Detecting Quarks	Sixth Quark	

Models—Tools for Scientists

I found this information on page_

Create a time line of the changes that have occurred in modeling the atomic structure since the 1800s. Sketch and label each model.



Properties of Atoms and the Periodic Table

Section 2 Masses of Atoms

Preview Section 2 of your book, using the checklist below.

- · Read all section titles.
- · Read all boldfaced words.
- Read all charts and graphs.
- Look at all the pictures and read their captions.
- Think about what you already know about masses of atoms.

Write three facts you learned.

- 1. ______
- 2. _____
- 3. ______

Review

Ocabulary Define mass to show its scientific meaning.

mass

Vocabulary

Use your book or dictionary to define the following key terms.

atomic number

mass number

isotope

average atomic mass

Academic Vocabulary

Use a dictionary to find the scientific meaning of define.

define

Section 2 Masses of Atoms (continued)

-Main Idea

______Details

Atomic Mass

I found this information on page

Organize the information on atomic mass to complete the outline.

Atomic Mass

- A. Nucleus of atom
 - 1.
 - 2. _____
 - 3.
- B. Atomic mass unit
 - 1.
 - 2. _____
- C. Protons
 - 1.
 - 2.
 - 3.
 - 4
- D. Mass number

 - 2. _____

Name

Properties of Atoms and the Periodic Table

Section 3 The Periodic Table

	Skim Section 3 and write three questions based on your brief preview.
	1
	2
•	3
Review Vocabula chemical property	Define chemical property to show its scientific meaning.
Vocabular	Use your book or a dictionary to define the following terms.
periodic table	
period	
group	
ctron dot diagram`	**************************************
Academic Vocabular	Use a dictionary to define similar to show its scientific meaning
similar	

Section 3 The Periodic Table (continued)

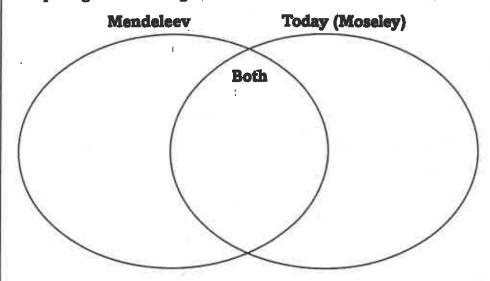
Main Idea

Organizing the **Elements**

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Details

Compare Mendeleev's early periodic table to that of today by completing the Venn diagram.



Sequence the energy levels in the electron cloud diagram and write the maximum number of electrons that can be contained in each level.

The Atom and the **Periodic Table**

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Section 3 The Periodic Table (continued)

Main Idea

Details

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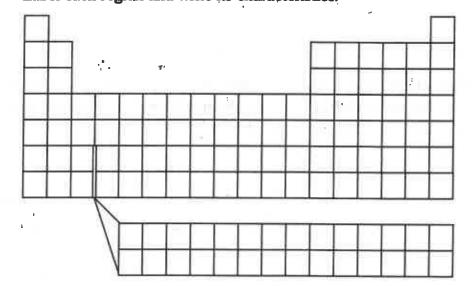
Analyze how electron dot diagrams show similarities between elements within a group.

Regions of the Periodic Table

I found this information on page —

Classify the regions of the periodic table as metals, nonmetals, or metalloids.

- Shade the regions on the blank periodic table.
- Label each region and write its characteristics.



SYNTHESIZE IT

Write a paragraph showing the relationship between chemistry and physics based on what you've learned from the periodic table.