Science 9
Chapter 2: Elements are the Building Blocks of Matter
Chapter 2.1 - Elements (page 42)
1. There are about ______ pure substances called ______________ that occur naturally.
   Each element is made of only one kind of _______. All other forms of matter are made from
   ________________ of elements.
2. What are the two rules used for giving an element its own chemical symbol?

Examine Table 2.1 on page 44. Write the chemical symbol for each of the following elements:

Hydrogen _______  Neon _______  Fluorine _______
Bromine _______  Calcium _______  Iron _______
Nickel _______  Zinc _______  Carbon _______

Write the name of each element down for the symbol given:

O ______________  Cl _______________  Hg ______________
Na ______________  Cs ______________  Sr ______________
Co ______________  Ag ______________  I ______________

The origin of the element’s symbol is given; write down the element’s symbol and its name:

Nitron _______  Helios _______
Kalium _______  Rubidus _______
Berylos _______  Titans _______
Aurum _______  Stannum _______
Phosphoros _______  Sulphurium _______

3. Define the following terms:
   Chemical properties: ___________________________________________________________
   Metals: __________________________________________________________
   Nonmetals: __________________________________________________________

1. If you were looking at an unknown element, what would you look for to tell if it were a metal or a
   non metal? __________________________________________________________

An element is brown in colour and is liquid at room temperature. It does not conduct electricity.
Is it probably a metal or non metal? __________________________

Total marks this page: 18
Define metalloids (see glossary, page 505)

For each element given, write down 4 facts. Write the symbol and state if metal or non metal.

Hydrogen (____) __________ (metal, non metal, or metalloid) - see periodic table page 58

Iron (____) __________ (metal, non metal, or metalloid)

Oxygen (____) __________ (metal, non metal, or metalloid)

Sodium (____) __________ (metal, non metal, or metalloid)

Chlorine (____) __________ (metal, non metal, or metalloid)

Mercury (____) __________ (metal, non metal, or metalloid)

Total marks this page: 31
Silver (__) _________ (metal, non metal, or metalloid)

Silicon (__) _________ (metal, non metal, or metalloid)

Define semiconductor: ____________________________________________

4. Do the Reading Check on page 47. Do numbers 1 – 5. Write full sentences.

1. ___________________________________________________________

2. ___________________________________________________________

3. ___________________________________________________________

4. ___________________________________________________________

5. ___________________________________________________________

5. Pick one of the elements from page 44 which you do not have notes on. Name the element, its symbol, and give 8 facts (internet) about it. Name: _______________________ Symbol: ______

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Total marks this page: / 28
6. Checking concepts and Understanding Key Ideas (page 51) Do # 6 - 16 (full sentences)

6. 

7. 

8. 

9. 

10. 

11. 

12. 

13. 

14. 

15. 

16(a) 

16(b) 

Total marks this page: 12