

Name \_\_\_\_\_ Period \_\_\_\_\_

**Skill 16.01 Exercise 1**

Consider the elements on the periodic table.

(a) Indicate the name of a data type that could be used to represent each element

(b) Indicate the types of data that are required to represent each element

**Skill 16.02 Exercise 1**

The Element class represents different elements on the periodic table. Write the Element class below.

**Skill 16.03 Exercise 1**

The ElementMaker class creates elements by instantiating the Elements class above. Write code that could be used to create the elements Nitrogen and Oxygen.

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**Skill 16.04 Exercise 1**

Modify the Element class above to accept parameters and assign the instance variables defined above to their respective values.

**Skill 16.04 Exercise 2**

A student executes the following command. Write code that could be used to create Element objects for the arguments helium and neon.

```
java ElementMaker helium neon
```

```
public class ElementMaker{  
  
    public static void main(String args[]){  
  
  
  
  
    }  
}
```

**Skill 16.04 Exercise 3**

What is printed?

```
public class StudentMaker{  
  
public static void main(String args[]){  
  
    Student student3 = new Student("Marvin", 12);  
  
    }  
}
```

```
public class Student{  
  
public String name;  
public int gradeLevel;  
  
public Student(String n, int gl){  
  
System.out.println("My name is " + n + "I am in  
" + gl + "th grade");  
}
```

AP Computer Science A  
Ticket Out the Door  
Set 16: Objects and Classes

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