Problem Set 1
Start Date: 09.02.2007 at 04 PM
Due Date: 09.12.2007 at 10 AM
Student Access after Due Date: Yes. Mark Late
Graded: Yes

Testbank, Question 6
Which one of the following is a physical change?
- ☐ when treated with bleach, some dyed fabrics change color
- ☐ when heated strongly, sugar turns dark brown
- ☐ grape juice left in an open unrefrigerated container turns sour
- ☐ when ignited with a match in open air, paper burns
- ☑ in cold weather, water condenses on the inside surface of single pane windows

Testbank, Question 9
Which one of the following is an extensive property of matter?
- ☐ specific gravity
- ☐ electrical conductivity
- ☑ mass
- ☐ density
- ☐ refractive index

Testbank, Question 35
The species, $^{51}_{23}V$, has the same number of neutrons as
- ☑ $^{52}_{24}Cr$
- ☐ $^{50}_{23}V$
- ☐ $^{59}_{27}Co$
- ☐ $^{45}_{21}Sc$
Testbank, Question 48
The symbol "Ca" is used to represent the element:
- calcium
- californium
- carminium
- cadmium
- carolinium

Testbank, Question 55
Which one of the pairs below contains elements from the same group?
- zinc, mercury
- manganese, barium
- xerium, radium
- lithium, fluorine
- copper, iron

Testbank, Question 60
The set below featuring one alkali, one alkaline earth, one halogen, one lanthanide and one actinide element is:
- lithium, manganese, fluorine, lanthanum, vanadium
- potassium, radium, iodine, lutetium, platinum
- rubidium, strontium, chlorine, thorium, plutonium
- cesium, barium, bromine, erbium, samarium
- francium, beryllium, iodine, terbium, berkelium

Testbank, Question 63
Which set below does not include at least one transition metal element?
- lithium, radium, magnesium, palladium, boron
- uranium, francium, gallium, plutonium, titanium
- magnesium, gallium, aluminum, neptunium
Testbank, Question 67
The present form of the periodic table evolved from the pioneering work, in this area, of:
- Gregor Mendel
- August Kekule
- D. Mendel
- J. J. Thomson
- William Ramsey

Testbank, Question 73
A homogeneous mixture consists of only one chemical substance. ____
- True
- False

Testbank, Question 76
A mixture with more than one chemical substance can nevertheless exist as only a single phase. ____
- False
- True