Final Exam Review: Chp 2,3 & 4		
1-10 Identify the following as :	11-25 Identify the following as :	
a) Physical Change b) Chemical Change	a) Physical Property b) Chemical Property	
1. Sodium hydroxide dissolves in water	11. red color	
2 Hydrochloric acid reacts with sodium	12. density	
hydroxide to produce a salt, water & heat.	13. flammability	
3. A pellet of sodium is sliced in two	14. solubility	
4. Water is heated and changed into steam.	15. reacts with acid to form hydrogen	
5. Potassium chlorate decomposes to	16. bitter taste	
potassium chloride and oxygen gas	17. melting point	
6. Iron rusts	18. reacts with water to form a gas	
7. Ice melts	19. combustible	
8. Acid on limestone produces carbon	20. conductivity	
dioxide gas.	21. hardness	
9. Milk sours	22. boiling point	
10. Wood rots	23. malleability	
	24. odor	
	25. reacts with a base to form water	

<b>DEFINITIONS:</b> USE CHOICES A-E BELOW	USE CHOICES A-E BELOW FOR QUESTIONS
FOR QUESTIONS 26-30	<b>31-35</b> Use them only once.
Use them only once.	
<b>A.</b> This is the amount of matter in an object	
and is always constant	A: definite volume, not a definite shape
<b>B.</b> this is the amount of space the object	B: no definite shape or volume
occupies	C: approaches absolute zero
<b>C.</b> this is a measure of the gravitational force,	<b>D:</b> particles that are broken apart, and do
and it will change, depending on where the object is located away from Earth	not have a definite shape or volume
<b>D.</b> this is the amount of mass in a given	E: definite shape and definite volume
volume	
<b>E.</b> mass is a measure of this	
26. Define: weight	31. A solid state has:
27. Define: mass	32. A liquid state has:
27. Denne. mass	
28. Define: density	33, A plasma state has:
29. Define: inertia	34. A gas state has:
30. Define: volume	35. A Bose Einstein state

36. A solid object floats i a. light b. heavy	n water when it is: c. more dense than water. d. less dense than water	
	s to resist change c) a force of attraction between objects given volume d) the amount of space an object takes up	
38. The density of water is: a) 0.1 g/cm <sup>3</sup> b) 1 g/cm <sup>3</sup> c) 10 g/cm <sup>3</sup> d) it changes constantly		
39. The equation for density is: a) V = D/m b) D=m/V c) D=V/m d) M=V/D e) none of these		
40. Why does a golf ball feel heavier than a tennis ball? a) it is denser b) it has more volume c) it has less mass d) all of the above <b>41-50 : A: TRUE B: FALSE : use the drawing on the left</b>		
Plastic bottle.	41. Oil is the most dense liquid in the bottle.	
	42. Water is more dense than syrup	
	43. Water is more dense than oil	
44. Oil is more dense than syrup		
45. golden syrup is the most dense liquid in the bottle		
46. oil's density is more than 1 g/cm3		
47. oil's density is less than 1 g/cm3		
48. water's density is more than 1 g/cm3		
49. syrup's density is less than 1 g/cm3		
50. syrup's density is more than 1 g/cm3		
mL	Use the graduated cylinder to answer questions 51-56.	
50 51.	51. the reading at this point is: A. 52.0 B. 48.0 C. 40.8 d. 41.6 e. none of these	
52.	52. the reading for this point is:	
40 53.	A. 45.0 B. 41.0 C. 55.0 D. 40.5 e. none of these	
	53. the reading for this point is:	
30	A. 42.0 B. 35.3 C. 30.8 D. 38.0 e. none of these	
54.		
20	54. the reading for this point is: A. 33.0 B. 25.3 C. 30.3 D. 27.0 e. none of these	
55.		
	55. the reading for this point is: A. 10.8 B. 22.0 C. 18.0 D. 20.2 e. none of these	
<b>10</b> <b>56</b> .		
	56. the reading for this point is:	
	A7 B 7.0 C. 13.0 D. 10.3 e. none of these	

match the definition at the right: 57. Solid	use only once: a) exists at high temperatures
58. Liquid	b) definite volume, definite shape
59. Gas	c) exists at very low temperatures
60. Plasma	d) definite volume , no definite shape
61. Bose-Einstein Condensate	e) no definite volume, no definite shape

## MATCH THE DEFINITION Write the letter

	A. elements that are shiny and are good conductors of thermal and electrical
	energy. Most are malleable and ductile
62. solubility:	
	B. a pure substance composed of two or more elements that are chemically
63. suspension:	combined
64. concentration:	C. a substance in which there is only one type of particle; includes elements and compounds
65. alloys: :	
	D. elements that have properties of both metals and nonmetals; sometimes
66. colloid: :	referred to as semiconductors
67. element: :	E. a combination of two or more substances that are not chemically combined
69 columnts	E a nume substance that can not be seven ted on busken down into simpler
68. <b>solvent</b> : :	F. a pure substance that can not be separated or broken down into simpler substances by physical means
69. <b>solute:</b> :	substances by physical means
	G. elements that are dull (not shiny) and that are poor conductors of thermal and
70. metalloids: :	electrical energy
71. mixture: :	H. a mixture in which particles of a material are dispersed throughout a liquid or
	gas but are large enough that they settle out
72. solution:	
	I. a mixture in which the particles are dispersed throughout but are not heavy
73. compound: :	enough to settle out
	J. a measure of the amount of solute dissolved in a solvent
74. metals:	
75	K. solid solutions of metals or nonmetals dissolved in metals
<b>75</b> . pure substance:	I also shilita da diasha in susala na sukatan s
76. nonmetals:	L. the ability to dissolve in another substance
	M. the substance in which a solute is dissolved to form a solution
	N. a mixture hat appears to be a single substance but is composed of particles of
	two or more substances that are distributed evenly amongst each other
	O. the substance that is dissolved to form a solution

Match the properties	77. :components keep their original properties
listed to the right to one of these	78. : components lose their original properties
	79. : separated by physical means
a. mixtures	80. :separated by chemical means
b. compounds	81. :tossed salad
	82. : sugar water
	83. : pizza

Choose from these	84	Elements & compounds are classified as
answers (use only once) a. heterogeneous matter	85	A(n) is not a substance but is homogeneous.
b. homogeneous matter	86	is made of two or more different materials that are not
c. solution		distributed evenly throughout each other
d. substances	87	is any matter that is the same throughout.

Choose from:	88. distilled water :
a. heterogeneous b. homogeneous	89. concrete :
	90. aluminum foil:
	91. tea:
	92. blood:
	93. Kool-Aid:

Identify these	as: Colloid, Solutions or Suspensions??
94. grape jelly :	Choose from:
94. instant coffee :	a. Colloid
96. muddy water :	b. solutions
97. whipped cream:	c. suspensions

Use the letters on the graph to the	Cooling Curve of Water
right to match the following terms	
below for questions 40-44	
98. gas	Temperature D
99. freezing	(°C) 0
100. liquid	
101. condensation	Time
102. solid	Time>