Sc 7 Chapter 5 Pre-Test Review Parts 1& 2

Name: Date:

Starting at the beginning of Chapter 5 pg. 116 in textbook.

Part 1 Definitions: Place a complete definition for each of the following terms.

a. Particle Model(4 main ideas):

b. Solid:

c. Melting:

d. Freezing:

e. Liquid:

f. Evaporation:

g. Condensation:

h. Gas:

i. Sublimation:

j. i) Physical Change:

ii) 2 Examples:

k. i) Chemical Change:

ii) Chemical Changes in Living Environment Examples:

iii) Chemical Changes in Non-Living Environment Examples:

l. Reversible Changes:

m. Non-Reversible Changes:

n. Summary of States of Matter:(fill in the blanks with correct answers)

State	**Fixed Mass?(Y/N)**	**Fixed Volume?(Y/N)**	**Fixed Shape?(Y/N)**
Solid			
Liquid			
Gas			

Part 2: Properly Solve the Following:

1. Using the particle model, explain what happens to water as it is gradually heated and changes from ice to steam.(3 marks)

2. Suggest 5 clues that you would consider before deciding whether a change is a physical change or chemical change.(5 marks)

3. State whether each of the following is chemical or physical change and provide at least 1 reason why.

	Changes we see happening in our world.	**Physical or Chemical**	**Reason why….**
a	Frost forms on windows		
b	Tea is made from using hot H_2O and tea bag.		
c	A firecracker explodes.		
d	Concrete becomes hard after it is poured.		
e	The burner on an electric stove glows red.		
f	Coffee changes color when cream is added.		
g	Liquid Nitrogen boils at - `196 ºC.		
h	Butter is heated in a frying pan until it browns.		
i	Hydrogen exposed to a flame makes a pop sound.		

4. Why is it easier to move your hand through air than water?(Use particle model to explain this)(2 marks)

5. Solids are described as having a fixed volume; however, most solids expand slightly when heated. Because of this bridges with metal connections have expansion joints...what would happen if there were no joints on the bridges?(2 marks)

6. What are more important in your life, physical or chemical changes? Explain your answer.(2 marks)