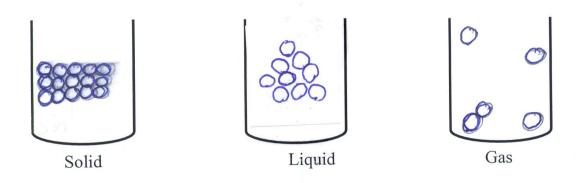
| Th | These are examples of the type of questions that could be pay be asked but will cover the same knowledge and un | | iz. Other questions | | | | |
|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------|---|---------------------------------------------|--|--|
| ma | | | iz. Other questions | | | | |
| | iay be asked but will cover the same knowledge and un | | | | | | |
| | nis practice quiz. | | | | | | |
| | | | | | | | |
| Pa | art A Use the following words to complete the blanks. | | | | | | |
| | spaces gas so | olute | liquid | | | | |
| | moving | atter | solvent | | | | |
| | solid particles pure si | ubstance | | | | | |
| | | | | | | | |
| 1 | M - 1-10- | 1 4-1 | | | | | |
| | Matter is anything that has mass a | ind takes up s | pace. | | | | |
| 2 | | | | | | | |
| The three common forms of matter are <u>Solid</u> , and <u>Gas</u> . | | | | | | | |
| | | | | 3 | | | |
| | | | | | All matter is made up of <u>particles</u> . | | |
| 1 | | | | | | | |
| 4 | A pure Substance is made up of only one l | kind of partic | le throughout. | | | | |
| | 1 | 1 | | | | | |
| 5 | I live the Solution is dissol | wad | | | | | |
| | In a solution, the is dissol | In a solution, the is dissolved. | | | | | |
| 6 | | | | | | | |
| | The particles of any substance are always | 9 | | | | | |
| | | 7 | | | | | |
| 7 | | | | | | | |
| 7 | There are <u>Spaces</u> between the part | ticles of all su | ıbstances. | | | | |
| 7 | There are <u>Spaces</u> between the part | ticles of all su | ubstances. | | | | |

See Next Page

Part B Identify the following mixtures as homogeneous or heterogeneous.

| 1 | relish | heterogeneous |
|---|----------------------------|---------------|
| 2 | Raison Bran cereal in milk | heterogeneous |
| 3 | black coffee | homogeneous |
| 4 | Kool-aid | homogeneous |
| 5 | soil | heterogeneous |
| 6 | sugar water | homogeneous |
| 7 | vegetable juice | nomog eneous |
| 8 | flat pop | homogeneous |

Part C Sketch the particles in the following states of matter.



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Part D Short Answer. There is a word bank after this section which may help with your answers. You do not have to use the words in the bank but some of the words may be useful.

Answer in full sentences.

| 1 | Using particle theory, explain what happens to the particles of a gas as it cools. (Hint: Refer to the energy level, the spacing, and the movement of the particles.) As a gas cools, the energy level decreases, the particles move slower and move closer together. If cooled enough, a gas may become a liquid. |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2 | Which state(s) of matter can be poured? |
| | The states of matter that can be |
| | The states of matter that can be poured are liquid and gas. |
| | |
| | |
| | |
| 3 | Describe an example of a mixture that could be separated into its component substances |
| 3 | |
| | A mixture of bingo chips and pennies Can be separated by mechanical Separation. |
| | Can be separated by mechanical |
| | Separation. |
| | |

| 4 | Salt is dissolved in water. Identify the solute and the solvent. Salt is the Solute. Water is the Solvent. |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5 | Which state(s) of matter take the shape of the container? Liquids and gases take the shape of the container. |
| 6 | Using particle theory, explain how a gas can take the volume of its container but a solid cannot. (Hint: Refer to the energy level, the spacing, and the movement of the particles.) The particles of a solid are locked in place. They do not have enough energy to move away from each other. The particles of a gas have a high energy level and can move away from each other to fill the container. |
| 7 | Using particle theory, explain what happened to the salt when it dissolved during our separating mixtures activity. (Hint: Refer to the spacing and the movement of the particles.) The Salt broke down into Very Small particles that fit into the spaces between the water particles. |

| 8 | Which state(s) of matter are made up of particles? | |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| | All states of matter are made up | |
| | of particles. | |
| | | |
| | | |
| 9 | Using particle theory, explain what happens when a solid is heated? (Hint: Refer to the energy level, the spacing, and the movement of the particles.) | |
| | When a solid is heated, the particles, | |
| | increase in energy level, move faster, and | |
| | move farther apart. | |
| | If the solid is heated enough it can | |
| | when a Solid is heated, the particles increase in energy level, move faster, and move farther apart. If the solid is heated enough it can change into a liquid. | |
| | | |

| solute | evaporation | |
|---------------|---------------|-----------|
| solvent | condensation | condense |
| solution | filtration | evaporate |
| homogeneous | heterogeneous | faster |
| farther apart | moving | slower |
| closer | spaces | |

