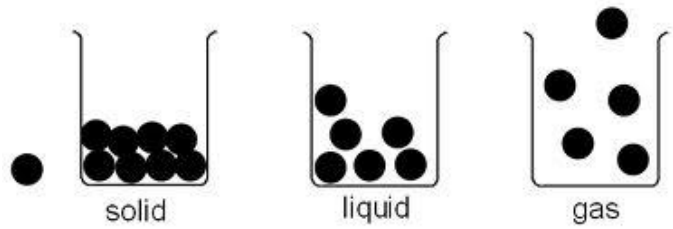


Using the Particle Theory



Date: _____

Use the particle theory of matter to explain the following observations:

<p>1. Solids have a hard rigid shape and definite volume.</p>	<p>2. A solid expands when heated.</p>
<p>3. A puddle of water disappears on a hot summer day.</p>	<p>4. A balloon filled with helium gas shrinks when taken outside on a cold winter day.</p>
<p>5. Predict what will happen to the balloon in #4 if brought back inside a warm building. Why?</p>	<p>6. A solid room air freshener is left in a room. After 3 weeks, it is noted that it is half of its original size.</p>
<p>7. You can smell the sweet odour of apple pie cooking in the oven while you are in your room.</p>	<p>8. You feel cold after you come out of a warm swimming pool on a hot dry summer day.</p>
<p>9. A tablespoon of sugar is placed in a (i) cup of hot tea and (ii) a cup of ice tea. Neither is stirred. In which container will the sugar dissolve faster?</p>	

