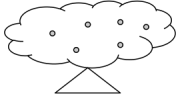
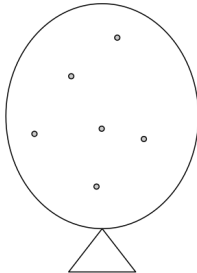


Handout Answers

Fill in the blank using the word bank:

increase cold particles less temperature
moving energy water faster more

1. Everything is made of particles.
2. Particles are always moving.
3. An increase in energy makes particles move faster.
4. An increase in temperature is the same thing as an increase in energy.
5. The particles in hot water have more energy than cold water.
6. The particles in ice move less than particles in water.
7. Draw what happens to two balloons that start out as the same size:
 - a) One is put into liquid Nitrogen
 - b) One is put in a hot car.
 - c) Draw 6 particles into each balloon.

<p>Balloon in liquid Nitrogen</p> 	<p>Balloon in a hot car</p> 
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8. Circle the answer to the following questions about the balloons.

- | | | | |
|--------------------------------------|---------------------|--------------------|-------------|
| a) Which balloon is the biggest? | Cold Balloon | <u>Hot Balloon</u> | Same |
| b) Which particles have less energy? | <u>Cold Balloon</u> | Hot Balloon | Same |
| c) Which balloon is heaviest? | Cold Balloon | Hot Balloon | <u>Same</u> |