

**Question #60421, Chemistry, Other**

**ANSWER THE QUESTIONS:**

- 1. Are particles in all forms of matter the same? Yes No**
- 2. How are the particles in liquids different from the particles in solids?**
- 3. Why can gas fill any space?**
- 4. Compare the properties of matter based on (shape and volume, space between the particles, force of attraction).**

**Answer:**

1. No
2. The particles in solids are closer to each other and bounded by stronger bounds
3. The gas can fill any space because the bounds between its particles are weak.
4. There are three forms of matter:
  - Gas (week bounds between the particles, no shape, can fill any volume);
  - Liquid (comparatively stronger bounds between the particles, holds its volume, no shape);
  - Solid (stronger bounds between the particles, holds its shape and volume).