

Memorize this chart, you will not be able to move ahead in chem unless you understand all of the vocabulary and remember how these properties exist.

Important Properties of the States of Matter			
Property	SOLIDS	LIQUIDS	GASES
volume	Definite	Definite	Indefinite
shape	Definite	Indefinite	Indefinite
compressibility	Very Little	Very Little	Easily
heat expansion	Slightly	Slightly	Greatly

Co, Ne, Hg, H₂O, Au, and Mg are the substances we will use for these questions:

1. which has the highest boiling point? **Cobalt at 3143 K which is 2870 °C**
2. Which will expand the most when heated? **The gas neon**
3. Which can be compressed the most? **The gas neon**
4. Which are the least likely to be compressed? **Cobalt, mercury, water, gold, and magnesium**
5. Which will melt in your mouth? **Only the water**
6. Which will fit into any shape container you place it (at 25°C) **neon gas, or liquid water**
7. Which will FILL any container you place it into (at 25°C) **The gas neon**

We're done with the substances for now. How many atoms are in each of these compounds?

