

Name _____ Lab Section # _____

ALL work must be shown to receive full credit. **Due at the end of class.**

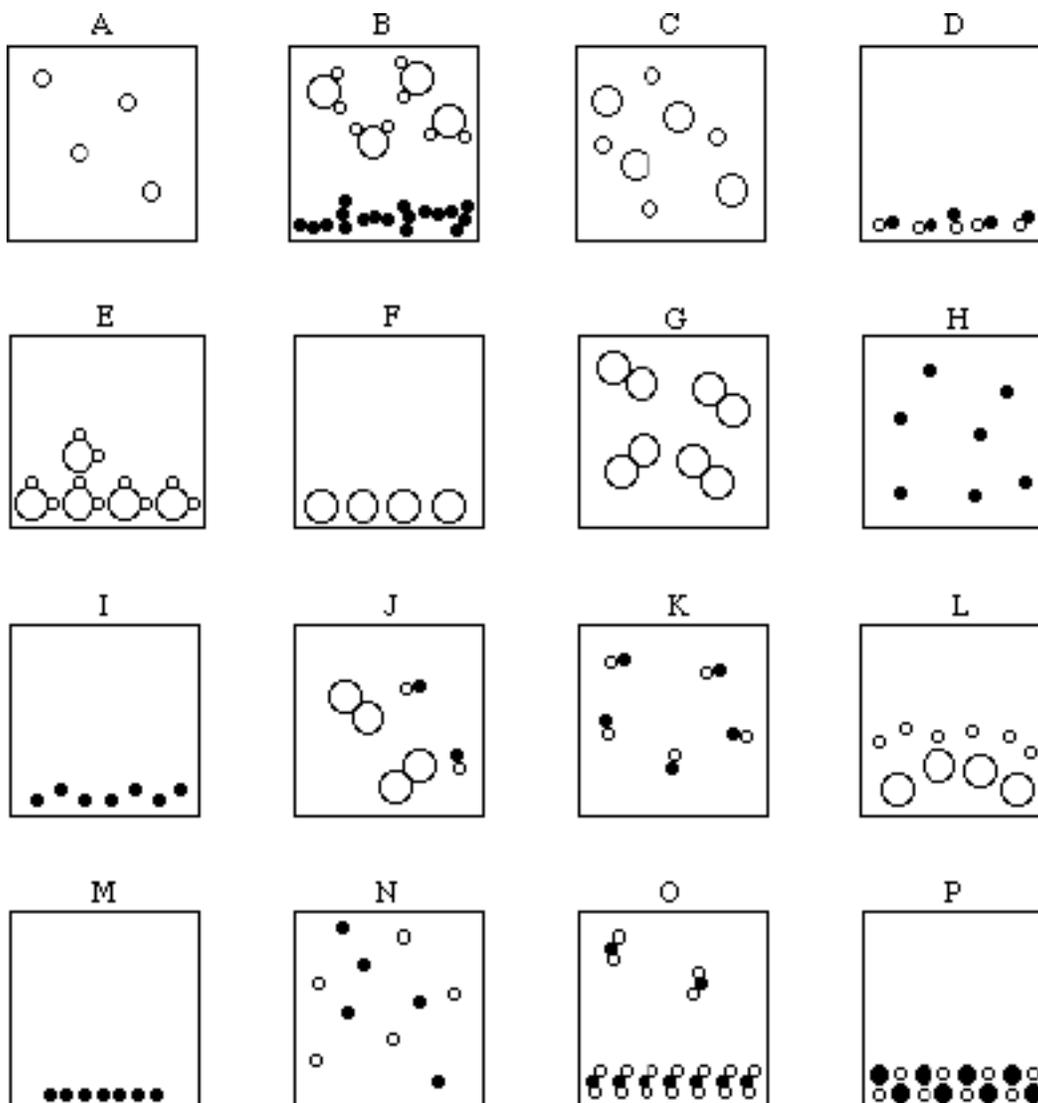
1. Each container (A - P) show a sample of substances as viewed at the atomic level. Characterize the contents of any FIVE (not Container A) of the containers in terms of each of the following categories:

Category I. Homogeneous mixture, heterogeneous mixture, or pure substance

Category II. Element(s), compound(s) or both

Category III. Solid, liquid, gas or combination of phases

As an example consider Container A. Category I: pure substance; Category II: element; Category III: gas phase. It is a pure substance since there is a single type of matter in the container. It is an element since it exists as a monoatomic substance. Finally it is in the gas phase due to the totally random distribution of particles.



1. (Continued)

Container	Category I	Category II	Category III

2. Select two containers that represent:

a) a chemical change (briefly explain your reasoning for the choice)

b) a physical change (briefly explain your reasoning for the choice)

3. Complete the containers below depicting before and after a solid dissolves in a liquid. Include a brief narrative supporting your diagrams. Is dissolving a physical or chemical change?

