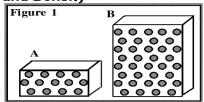
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- Chemistry Unit 1 Worksheet 3

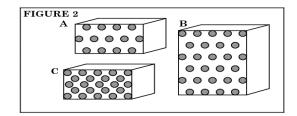
  Mass, Volume, and Density

  1. Study the matter shown in Figure 1. Each dot represents a particle of matter. [Assume the particles are uniformly distributed throughout the particles are uniformly distributed throughout the state of the same the particles are uniformly distributed throughout. each object, and particles of the same size have the  $same\ mass.]$
- a. In the table below, show how the masses, volumes, and densities of A and B compare by adding the symbol <, >, or = to the statement in the second column.
- b. Explain your reasoning for each answer in the last column.



Property	Relationship	Reasoning	
Mass	Α Β		
Volume	Α Β		
Density	A B		

- 2. Study the matter in Figure 2. [Assume the particles are uniformly distributed throughout each object, and particles of the same size have the same mass.]
- In the table below show how the masses, volumes, and densities compare by adding the symbol <, >, or = to the statement in the second column.
- b. Explain your reasoning for each



Property	Relationship	Reasoning
Mass	A B	
	A C	
Volume	A B	
	A C	
Density	A B	
	A C	