Activity: Distinguishing Ionic, Molecular, and Atomic Solids

1		2	
eart 2: Complete the table below for the		ecifically, you are l	looking for:
N-no connections between par	e particles (T-connecticles).		onnected only in some directions, tement summarizing what the solids in
Type of Solid	Type of Particles in the Solid (atom, molecule, ion// metal, non- metal)	Connections Within and Between Particles in the Solid	Generalization Concerning Particle Types and Connections
Row 1	motaly		
1. Argon			
2. Copper			
3. Graphite			
Row 2			
1. Dry Ice (CO ₂)			
2. Sulfur (S ₈)			
3. Sugar (C ₁₂ H ₂₂ O ₁₁)			
Row 3			
1. Table Salt (NaCl)			
2. Marble (CaCO ₃)			
3. Baking Soda (NaHCO ₃)			

Part 3: On a white board, write a set of "**Rules for Identification**" of these 3 categories of solids. Your Rules for Identification must:

- Allow for correct classification of any substance.
- Identify the type of particles involved in the class of solids.
- Specify the types of connections or lack of connections between particles belonging to this category.

	ne "Rules for Identificati ————————————————————————————————————	1	greed upon by the cla	uss.
Molecular Solic	ls			
Lonio Solida (Fo	ammula Unit Calida)			
ionic Solias (Fo	ormula Unit Solids)	 		