

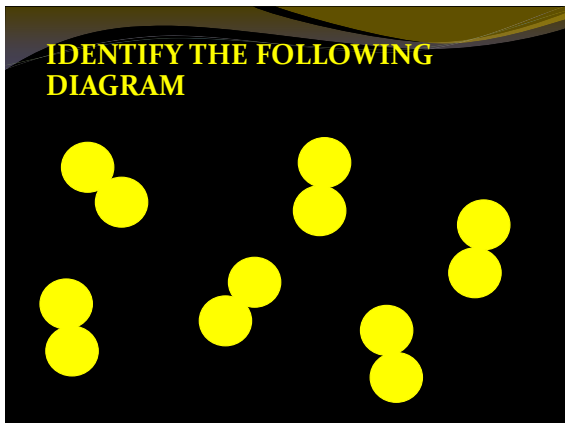
Particle Diagrams

- **Elements:** one type of atom (single or diatomic)
- **Compounds:** 2 or more types of atoms bonded together
- **Mixtures:** combination of elements and/or compounds
- **Homogenous:** uniform particles throughout
- **Heterogeneous:** particles are not dispersed evenly; may see layering

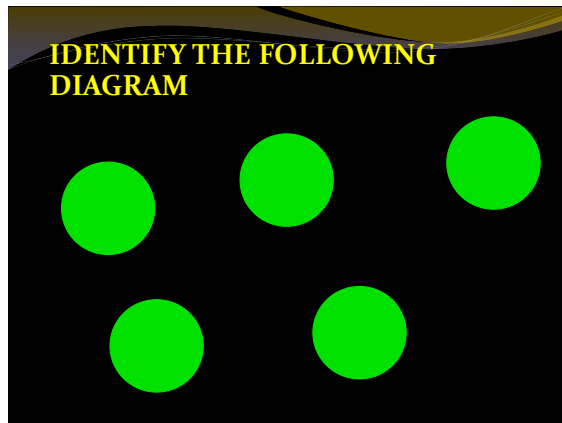
Particle Diagrams

- **Elements:** one type of atom (single or diatomic)
- **Diatomic Elements:** elements that exist as pairs in nature
- "Br i n c h o f"
- Br₂, I₂, N₂, Cl₂, H₂, O₂, F₂
- "Go to 7 on the periodic table, make a 7 and add hydrogen!"

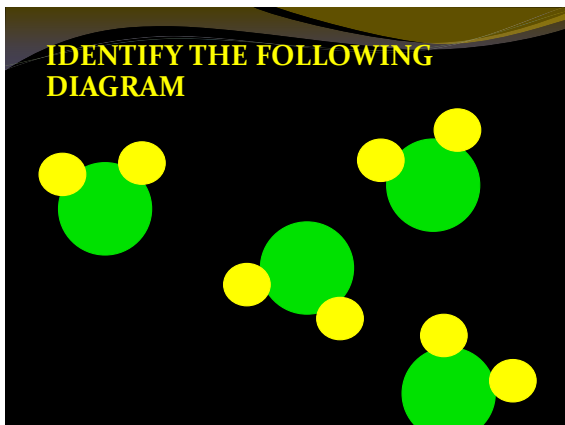
IDENTIFY THE FOLLOWING DIAGRAM



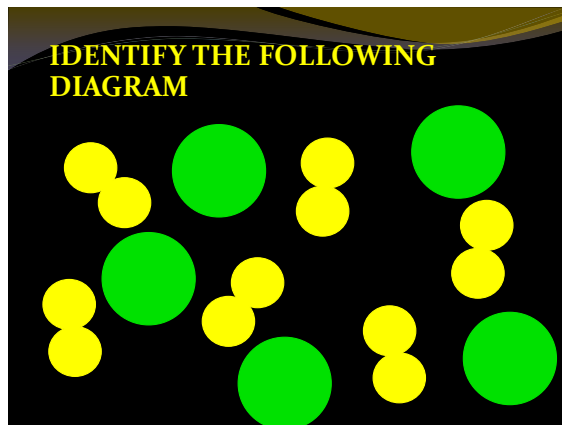
IDENTIFY THE FOLLOWING DIAGRAM



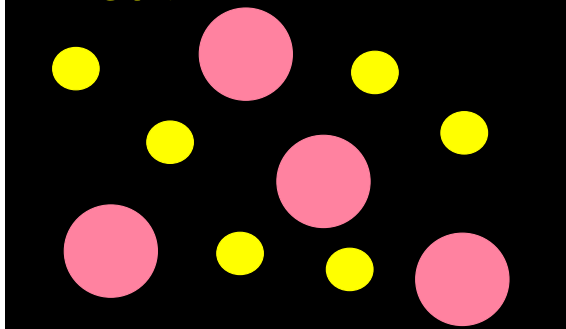
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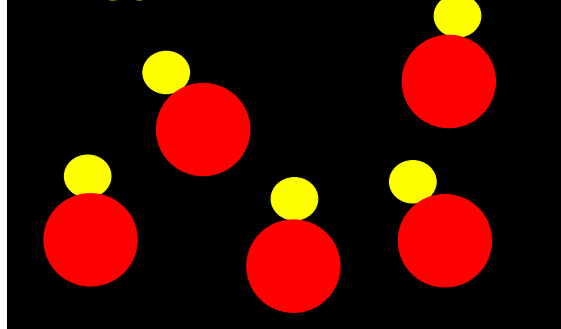
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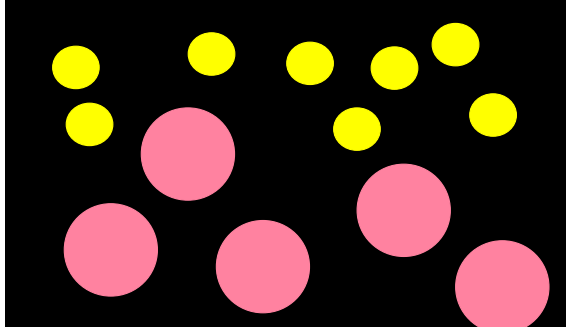
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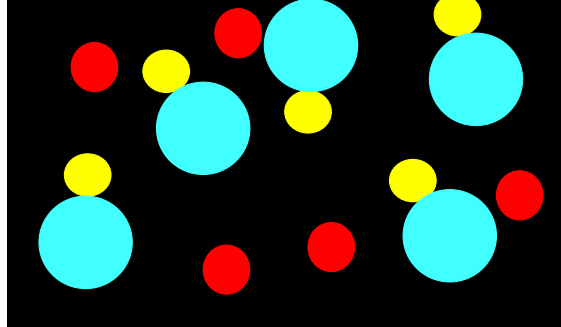
IDENTIFY THE FOLLOWING
DIAGRAM



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DIAGRAM



IDENTIFY THE FOLLOWING
DIAGRAM



Particle Diagram Activity

Identify the diagrams as:

- Mixture, Element, Compound
- # of types of compounds or elements
- Homogenous or heterogenous

SEPARATION DIAGRAMS

MIXTURE SEPARATION - NO CHEMICAL
CHANGE

SALTWATER ----> WATER + SALT

