Name _____ **2024**

Chem think link

1. Type full name
2. Go through the tutorial
3. Then do the problems. Take a screenshot of your the score and post it in classroom

Use the **compounds vs. mixtures slides** **in presentation mode and fill this in**

1. Matter can be classified as a pure substance or a mixture. Define the following terms.

Pure Substances -	**Mixtures -**

PURE SUBSTANCES

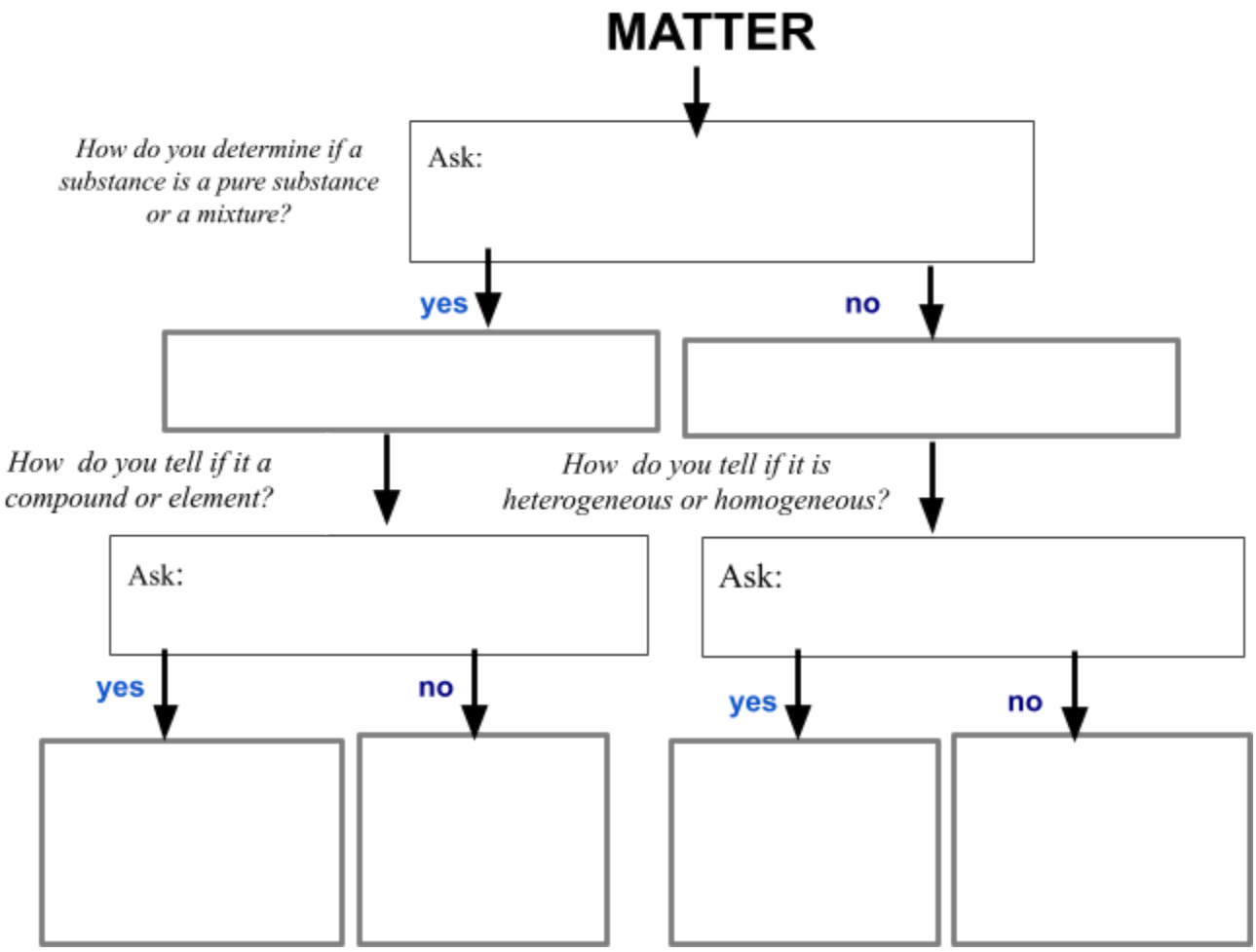
Elements- (define w/examples)	**Compounds -** (define w/examples)

NOTE: Molecules (define w/examples)

Mixtures

Heterogeneous- (define w/examples)	**Homogeneous-** (define w/examples)

Compounds, Elements, Mixtures (Symbols and Particle View)



2. Sort the following into the correct category

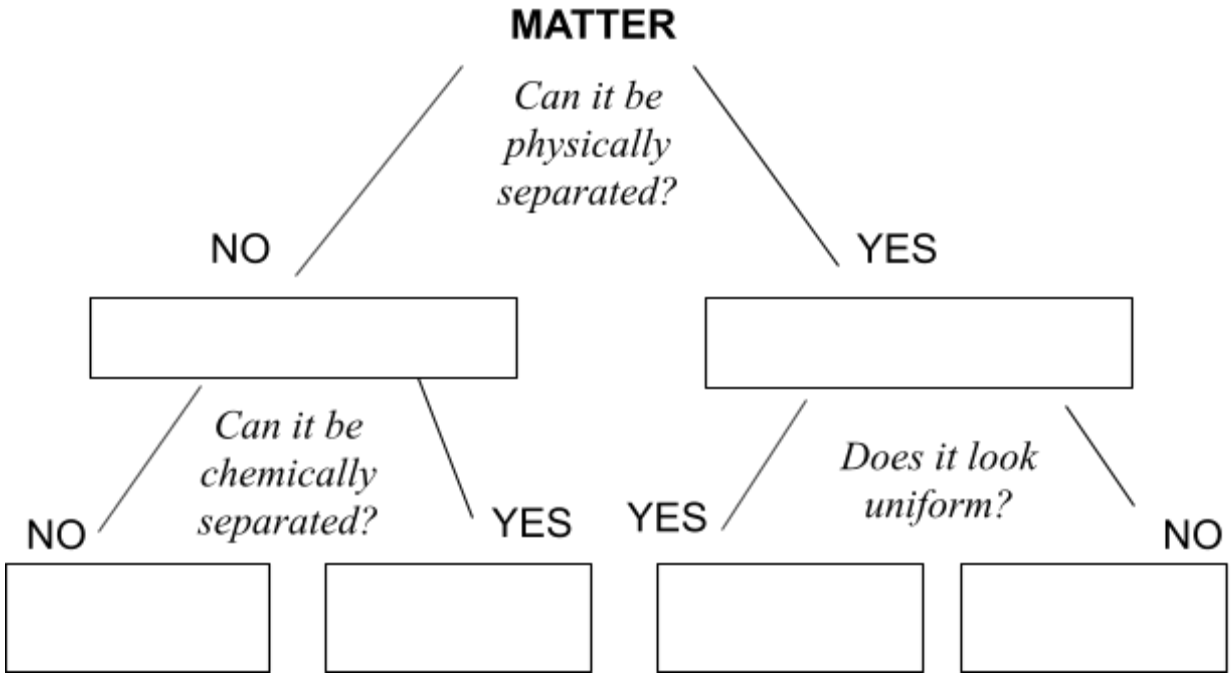
Red = element
Blue = homogeneous mixture
Orange = compound
Brown = heterogeneous mixture

CO_2	Ag	Brass (Cu & Zn)	Co (s)	Soda
P_4	Muddy water	Oil and vinegar	CO (g)	H_2O (l)
Air (N_2 & O_2 & CO_2 & H_2O)	NaCl (s)	NaCl (aq)		

Watch the following video and record properties of sodium, chlorine and sodium chloride. See slide

	Elements vs Compounds	vs Mixtures
Properties	* *Sodium:* * *Chlorine:* *Sodium Chloride:*	Lemons: Water: Lemonade:
% composition Relative amounts of components		
Separation Methods		

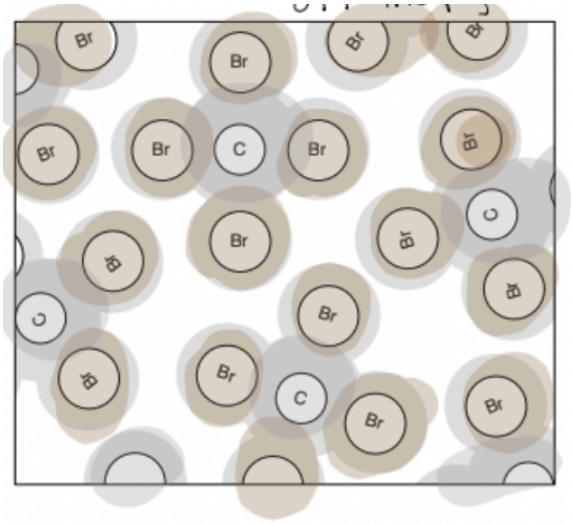
Compounds, Elements, Mixtures (Macroscopic Observations)

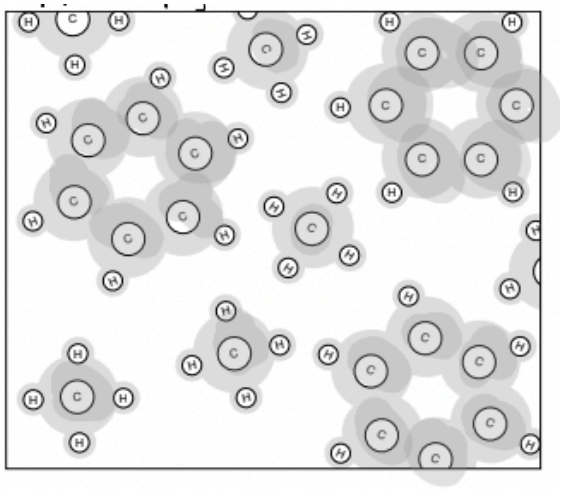


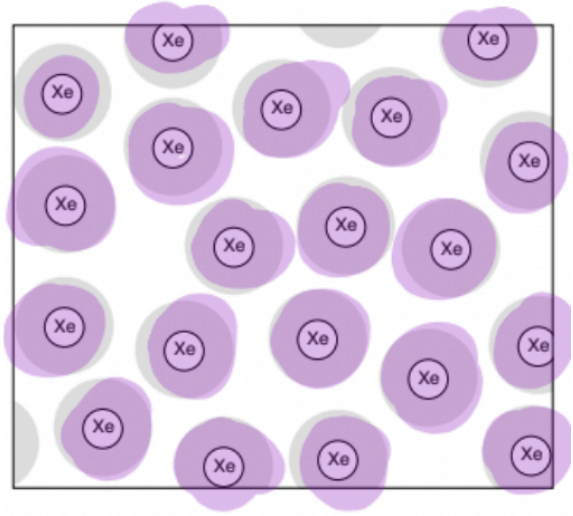
Can compounds be physically separated? Watch this short video
Determine whether the substance is a compound, element or mixture.

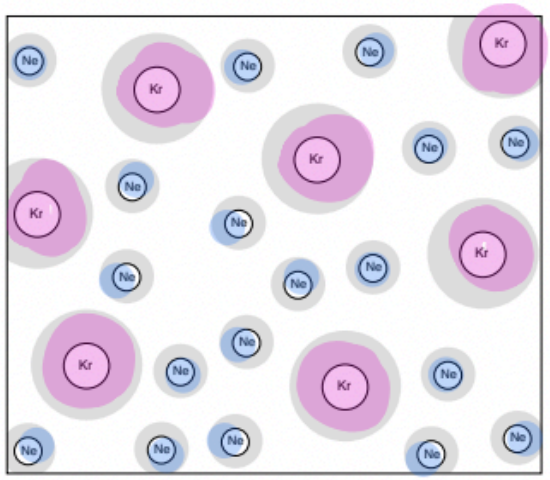
A. Hydrogen Peroxide _____ - Cannot be separated physically - Can be broken down chemically into hydrogen and oxygen	B. Zirconium _____ - Cannot be separated physically - Cannot be broken down further chemically
C. Explain the difference between NaCl(s) NaCl(aq)	D. Explain the difference between CO vs Co

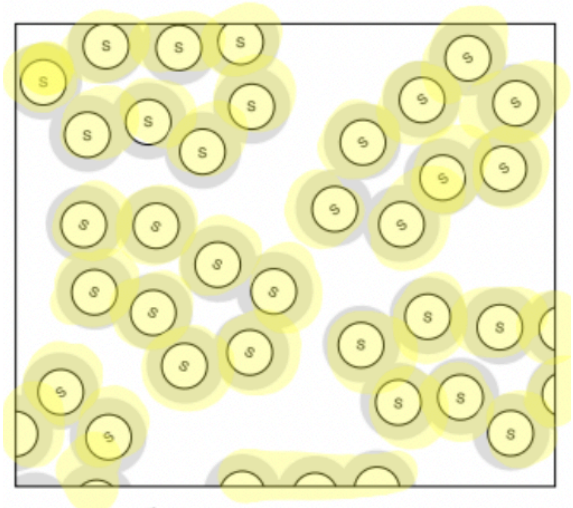
MATTER: LABEL AS PURE SUBSTANCES OR MIXTURES

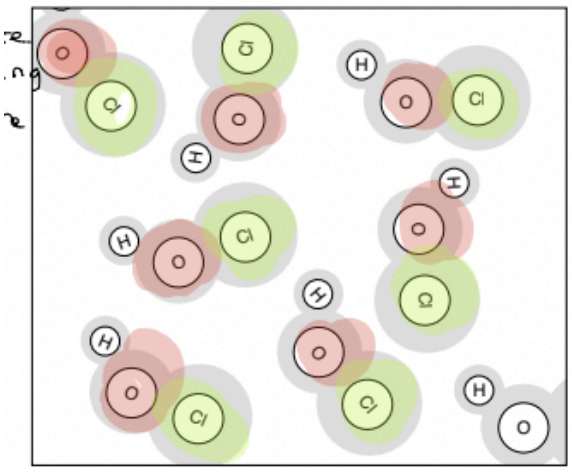












PURE SUBSTANCES:LABEL AS COMPOUNDS OR ELEMENTS

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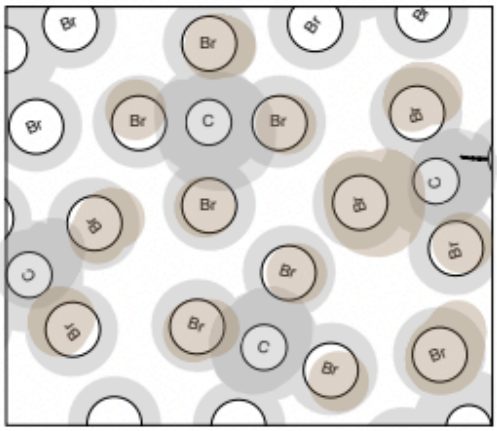

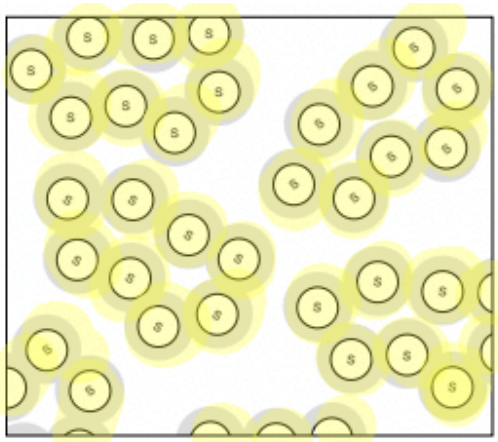

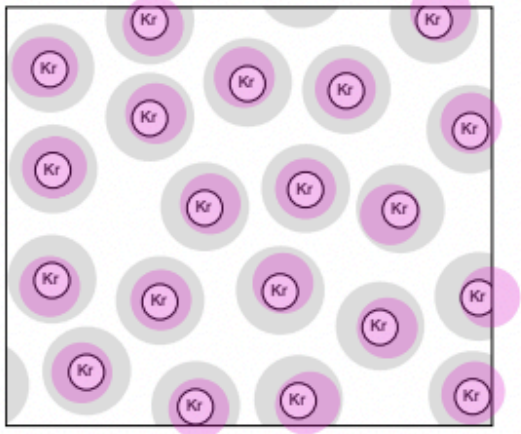

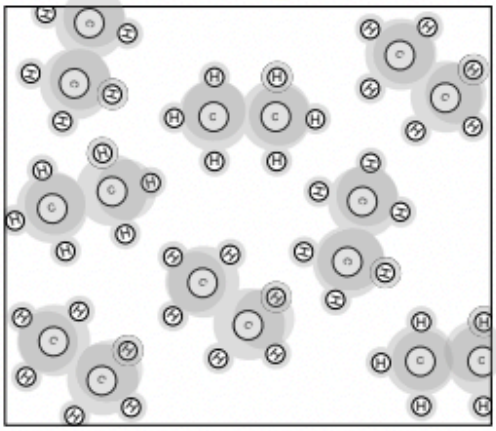

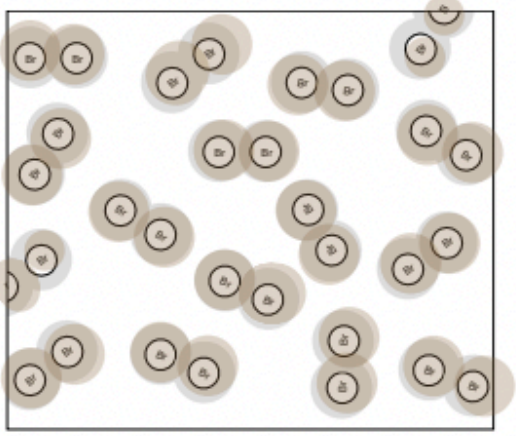

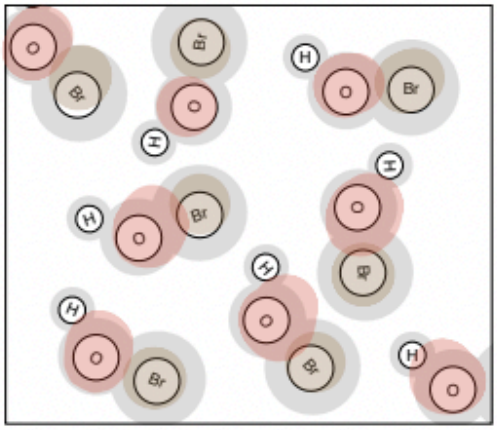

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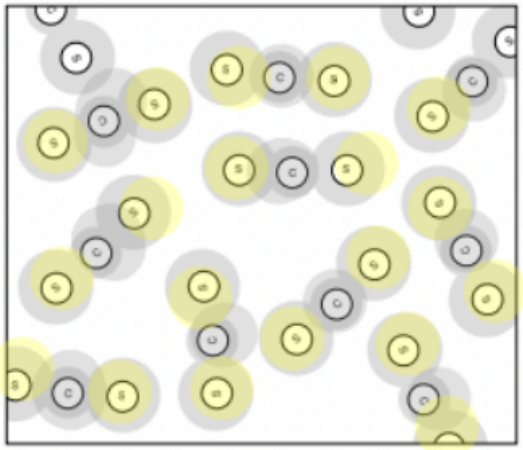
SUMMARY:

Each of the following diagrams show the particles in a material. For each diagram, write whether you think it represents an element, a compound or a mixture



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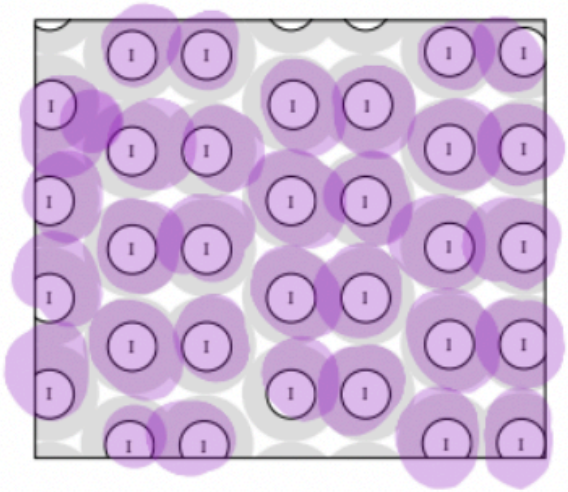

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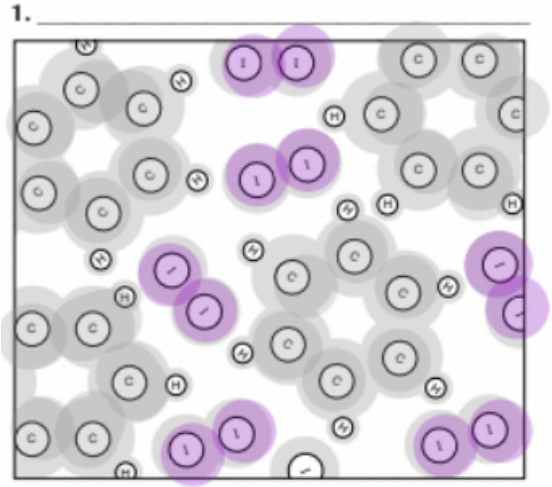

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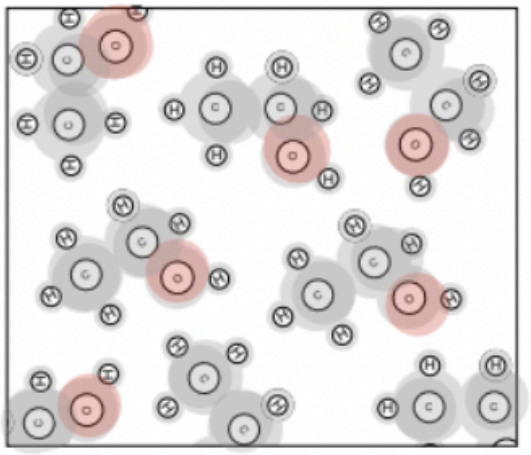
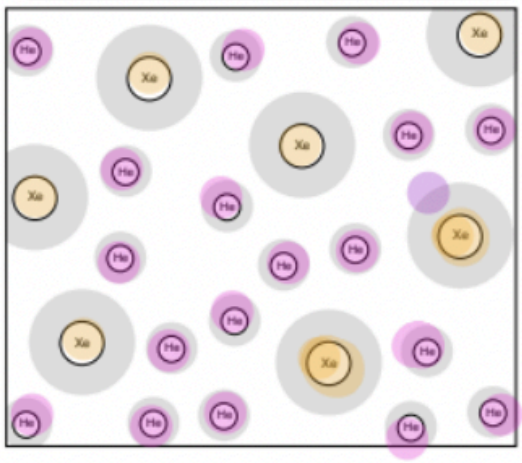
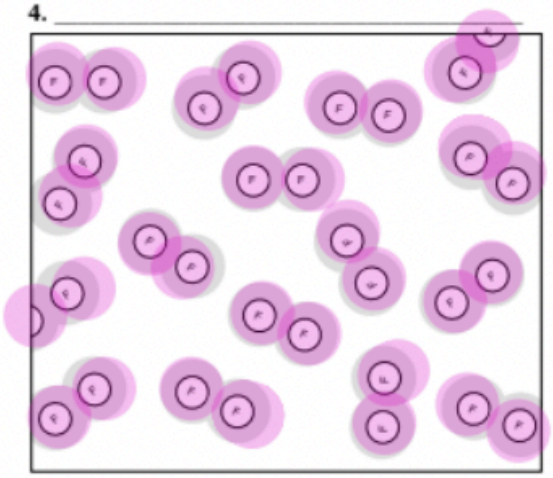


4. _____



5. _____



6. _____