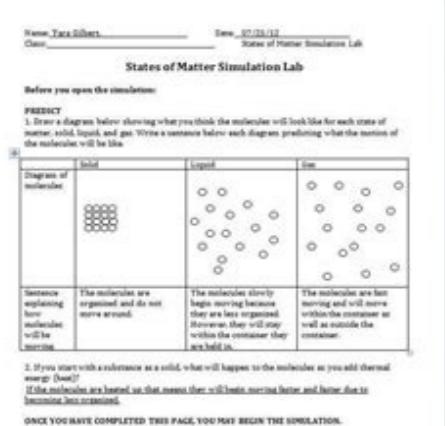


**SUBMIT**

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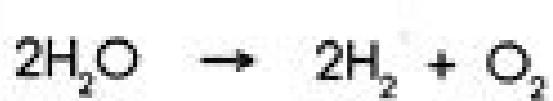
## PART I

### CLASSIFICATION OF CHEMICAL REACTIONS

[ANSWERS]



Synthesis



Decomposition



Single Replacement



Synthesis



Decomposition



Single Replacement



Synthesis



Double Replacement



Decomposition



Double Replacement

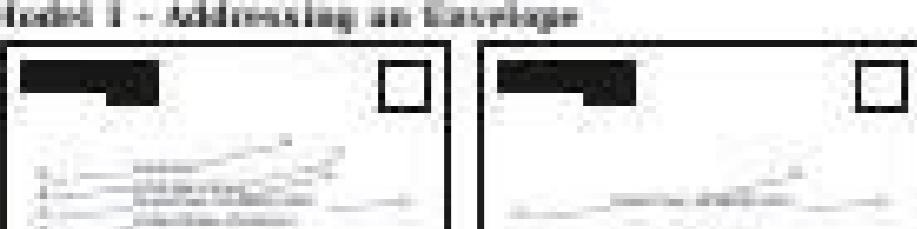
### Biological Classification

How are organisms grouped, sorted, and classified?

#### Why?

From time immemorial we have sorted things into categories. We like to sort because things are organized. In the natural world, these biological or natural systems are organized in quite complex and hierarchical ways. In this activity you will learn about the major classification systems and how organisms are sorted.

#### Model 1 – Addressing an Envelope



Addressed Envelope 1      Addressed Envelope 2

1. Assuming I am sending to Ms. Jones I want to make things like this one from the image are evaluated. To do so, I have three biological or natural systems and organize them according to their relative importance. In this activity you will learn about the major classification systems and how organisms are sorted.
2. Consider which group of which of the two friends in Model 1 will be more successful at reaching a destination. Justify your choice.
3. Addressed Envelope 1 has more information on it than is necessary to successfully reach its destination.
4. In Addressed Envelope 1, which line letters (a, b) correspond to the most specific part of the address?
5. In Addressed Envelope 1, which line letters (a, b) correspond to the most general part of the address?
6. D, E, F
7. In recent years, the United States Post Office has introduced a new code piece, #. Considering what you've learned about addressed, why would this add more information to added to addresses today?
8. Explain it more specifically and easier to deliver mail.

#### Biological Classification

1.

Classify each of the materials below. In the center column, state whether the material is a **pure substance** or a **mixture**.  
• If the material is a **pure substance**, further classify it as either an **element** or **compound** in the right column.

• If the material is a mixture, further classify it as **homogeneous** or **heterogeneous** in the right column. Write the entire word in each space to earn full credit.

Material	Pure Substance	Element or Compound
	Mixture	Solution(Homogeneous) or Mechanical mixture (Heterogeneous)
Laundry detergent (contains white and blue crystals)	Mixture	Heterogeneous
sugar + pure water ( $C_{12}H_{22}O_{11}$ + $H_2O$ )	Mixture	Homogeneous
iron filings (Fe)	Pure substance	Element
limestone ( $CaCO_3$ )	Pure substance	Compound
orange juice (water and pulp)	Mixture	Heterogeneous
Pacific Ocean (Water and Salt)	Mixture	Homogeneous
air	Mixture	Homogeneous
aluminum (Al)	Pure substance	Element
magnesium (Mg)	Pure substance	Element
acetylene ( $C_2H_2$ )	Pure substance	Compound
tap water in a glass	Mixture	Homogeneous
pure water ( $H_2O$ )	Pure substance	Compound
soil	Mixture	Heterogeneous
chromium (Cr)	Pure substance	Element
baking soda ( $NaHCO_3$ )	Pure substance	Compound
salt + pure water ( $NaCl$ + $H_2O$ )	Mixture	Homogeneous
benzene ( $C_6H_6$ )	Pure substance	Compound
muddy water	Mixture	Heterogeneous
brass ( $Cu$ mixed with $Zn$ )	Mixture	Homogeneous

Teacher: Mr. Heisz

## LABORATORY EXPERIMENTS

## Safety in the Chemistry Laboratory

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