

Lesson 1 Classifying Matter

Scan Lesson 1. Read the lesson titles and bold words. Look at the pictures. Identify three facts you discovered about matter. Record your facts in your Science Journal.

Main Idea

Understanding Matter

I found this on page _____.

Atoms

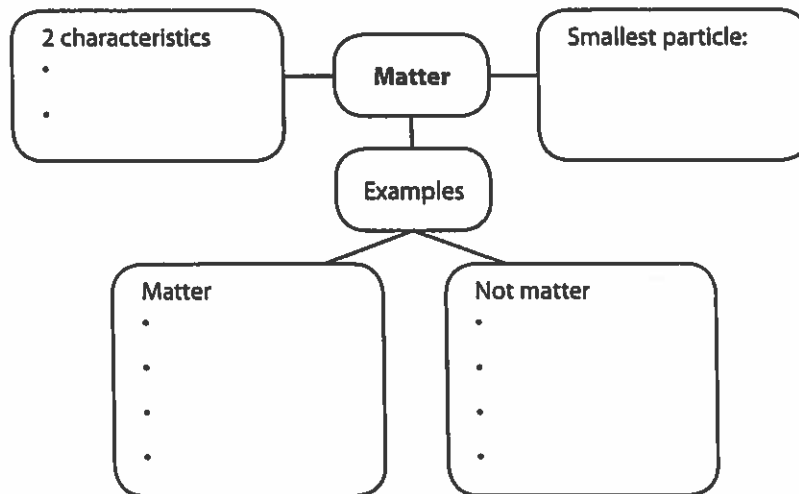
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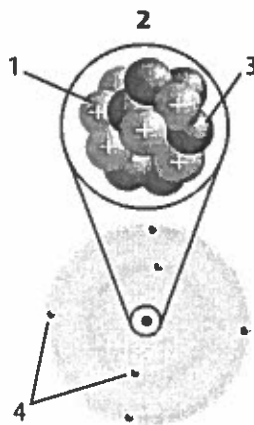
Details



Organize information about matter.



Identify and describe the parts of an atom.



1. _____
2. _____
3. _____
4. _____

Relate the number of protons in the nucleus of an atom to the properties of matter.

Lesson 1 | Classifying Matter (continued)

Main Idea

Substances

I found this on page _____.

I found this on page _____.

I found this on page _____.

I found this on page _____.

I found this on page _____.

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Details



Define substance, and identify two examples.

Definition: _____

Examples: _____



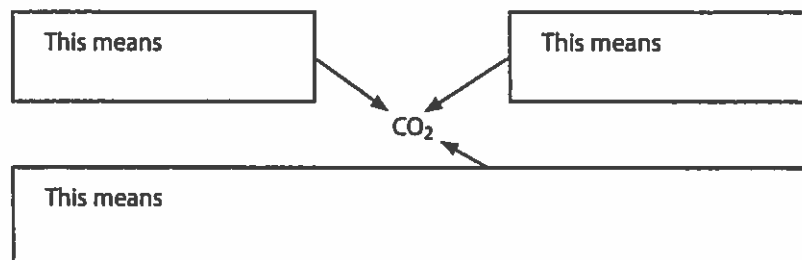
Examine how atoms of elements differ. Circle the characteristic that gives each type of atom its unique properties.

Example	Aluminum	Oxygen
Is it a substance?		
Is it an element?		
How many protons are in its nucleus?		
How do its atoms usually exist?		

Differentiate elements from compounds.

Element	Compound

Interpret the chemical formula.



Relate properties of a compound to the properties of the elements of which it is made.

Lesson 1 | Classifying Matter (continued)

Main Idea

Mixtures

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I found this on page _____.

Compounds v. Solutions

I found this on page _____.

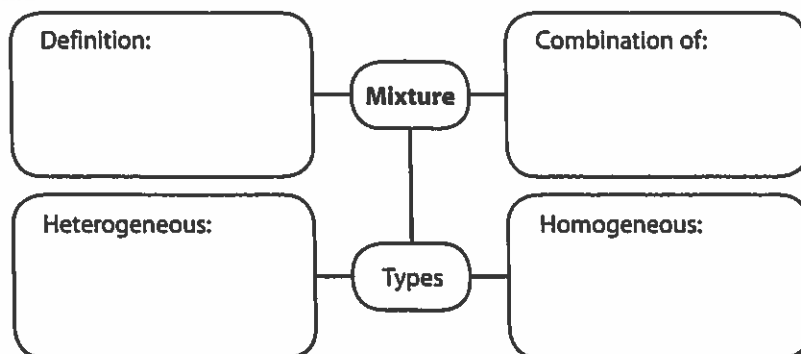
Summarizing Matter

I found this on page _____.

Details



Organize information about mixtures.



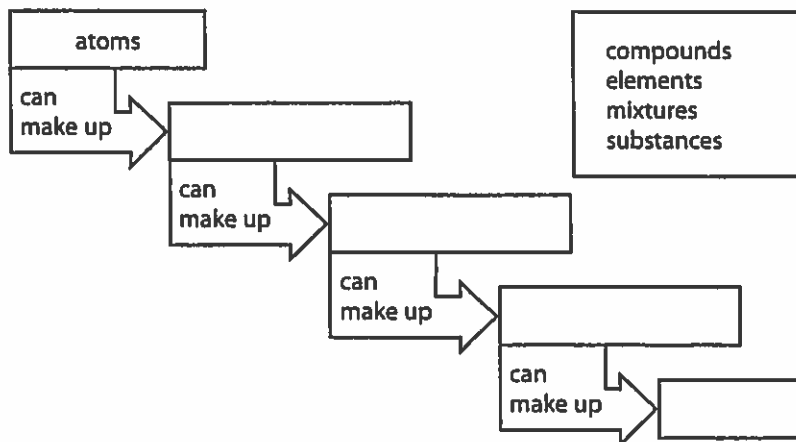
Complete the statement to describe how a substance dissolves.

In a solution, the _____ is the _____ present in the largest amount; the _____ are all the other substances that _____ in the solvent.

Explain whether a chemical formula can describe a solution.



Order the classifications of matter. Use the words in the box to make a sequence that is true.



Analyze It Evaluate whether the following statement is true or false, and explain why: All solutions are mixtures.

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Foundations of Chemistry

