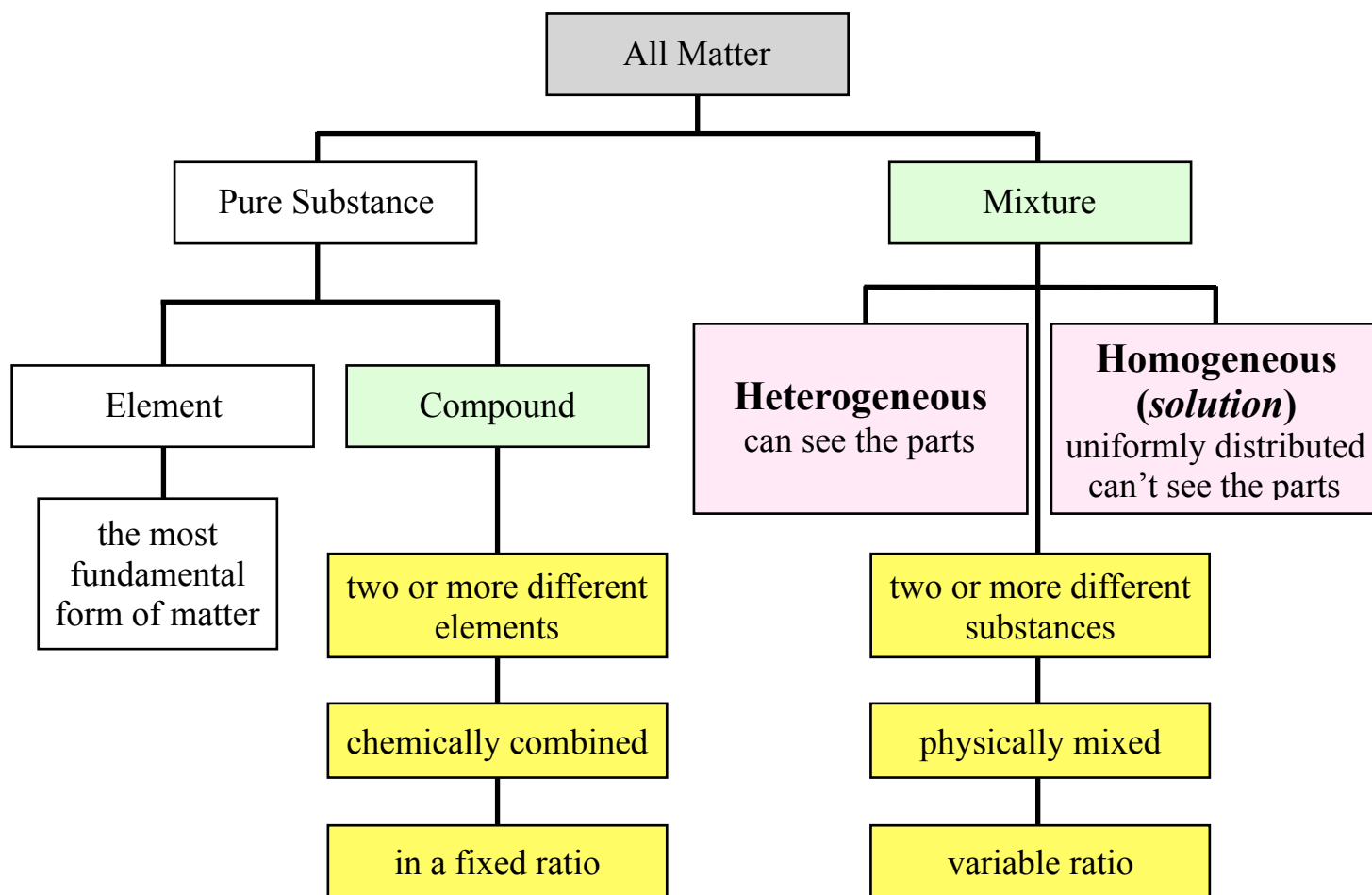


*Chemists classify and describe matter in a variety of ways:*

- We already classified by what physical state of matter the substance: solid, liquid, or gas.
- **Another method would be to categorize by whether the substance is a pure substance or a mixture.**
- A third way might be to classify an element as metal or nonmetal.
- There are other ways as well.



*Examples of mixtures on the back.*

**Examples of different “mixtures.”**

Mixtures can be subdivided into subcategories (You are NOT responsible for knowing the names of these subcategories.)

- suspensions: mixtures in which the larger particles settle out
- colloids: mixtures in which the larger particles do NOT settle out

solid in liquid	solid in gas	solid in solid
liquid in liquid	liquid in gas	liquid in solid
gas in liquid	gas in gas	gas in solid