**DIFFERENCES BETWEEN PURE SUBSTANCES AND MIXTURES.**

1. **Brainstorming**
2. What does pure substances mean? Give examples.
3. What does mixtures mean? Give examples.
4. Which states of matter have pure substance or mixture?
5. Do you think all mixtures have to have visible substances?
6. **Learning outcomes**

* How to differentiate between elements and compounds
* How to differentiate between homogeneus and heterogeneous mixtures
* How to differentiate between pure substance and mixtures

1. **Content language**

Pure substance separate fixed proportions

Mixture properties change

Single element different form formed

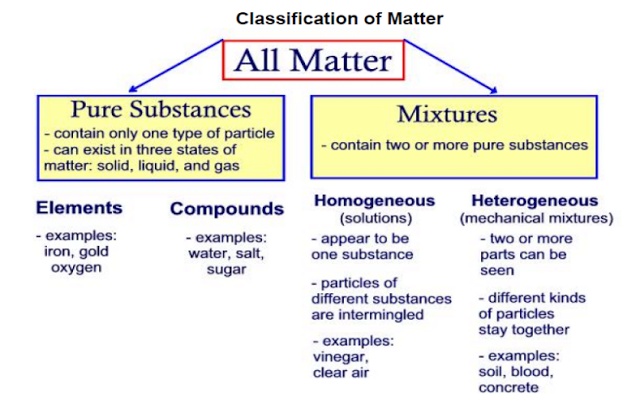
Compound exothermic higher, lower

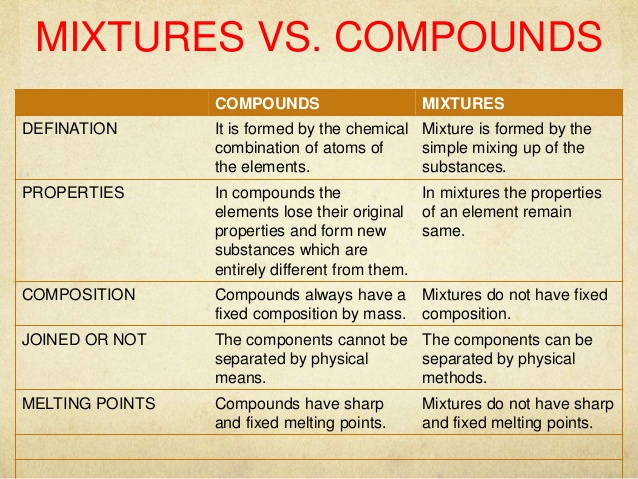
Energy homogeneus combinated

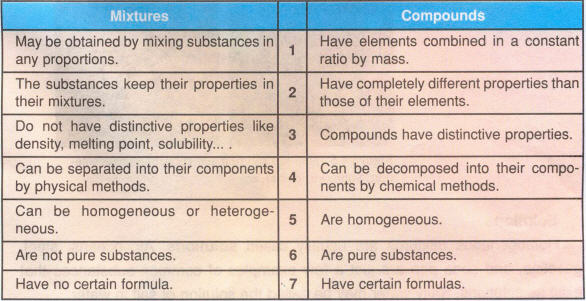
Melts heterogeneous boils

Temperature particle

1. **Model with scaffolding language**







1. **Task for learners**

|  |  |  |  |
| --- | --- | --- | --- |
| **Pure Substances** | | **Mixtures** | |
| **Elements** | **Compounds** | **Homogeneus** | **Heterogeneus** |
|  |  |  |  |

1. **Task support**

You can take information from website in order to fill the table

[www.majordifferences.com](http://www.majordifferences.com)

<https://www.chem.purdue.edu/gchelp/atoms/elements.html>

<http://www.ivyroses.com/Chemistry/GCSE/Elements-Mixtures-Compounds.php>

<https://www.reference.com/science/difference-between-mixture-compound-ac5cc16507bb8558>

1. **Content language for learners´tasks**

Go to point 3

1. **Scafolding language**

Go to point 4

1. **Assessment criteria**

You have to do a presentation about the difference between pure substances and mixtures.

Be sure you use all content and scaffolding language.

Prepare your presentation step by step.