Classifying Matter Activity

Use the video provided to classify Matter: <http://somup.com/cFQi2FVRK8> .

The following outline shows how to determine what type of matter each substance is:

Homogeneous Matter (HOM)

1. Elements
2. Compounds/Molecules
3. Solutions

Heterogeneous Matter (HET)

1. Non-Uniform Mixtures
2. Suspensions
3. Colloids

* Students should write down “HOM” or “HET” and then the specific type (as listed above)

|  |  |  |
| --- | --- | --- |
| Matter | Homogeneous (HOM) or Heterogeneous (HET) | Type of Matter (#1-3 above) |
| Sand |  |  |
| Aluminum Cylinder |  |  |
| Popcorn |  |  |
| Yogurt Fruit on the bottom |  |  |
| Coffee |  |  |
| Vegetable Oil |  |  |
| Molasses |  |  |
| Salt (NaCl) in shaker |  |  |
| Zinc strip |  |  |
| Paint |  |  |
| Brass/Bronze cylinder |  |  |
| Cranberry Juice |  |  |
| Sugar crystals |  |  |
| Copper II Sulfate |  |  |
| Fog, Cloud, Mist |  |  |
| Milk |  |  |

ANSWERS

1. Sand HET non-uniform mixture

2. Aluminum cylinder HOM element

3. popcorn HET non-uniform mixture

4. Yogurt Fruit on the Bottom HET suspension (*needs stirring*)

5. Coffee HOM solutions (*coffee bean, water, sugar*)

6. Vegetable Oil HOM compound (*read ingredients*)

7. Molasses HET colloid (*slight boundaries*)

8. Salt (NaCl) in a shaker HOM compound

9. Zinc Strip HOM element

10. Paint HET suspension (*needs shaking/stirring*)

11. Brass/Bronze cylinder HOM solution (*mixture of Cu & Zn*)

12. Cranberry Juice HOM solution

13. Sugar HOM molecule

14. Copper II Sulfate HOM compound

15. Fog, Cloud, Mist HET colloid (*water drops, particles*)

16. Milk HET colloid (*fat, water, settles*)