

Application Questions Chapter 1 John Hemingway

1. What is the difference between a pure substance and a mixture? Give two examples of each. 5pts

Substance only has one type of particle while mixture has two or more types of particles...

examples : Substance- 1. Sugar Mixture- 1. Salt and Sugar

2. Salt.

2. Soda

2. What is the difference between a homogeneous mixture and a heterogeneous mixture? Give two examples of each. 5pts

Homogeneous has the same proportions of its components throughout any given sample. 2 Examples - Air, steel

Heterogeneous has components in which proportions vary throughout the sample. 2 Examples - soil, blood

3. What is the difference between a physical change and a chemical change? Give at least two examples of each. 5pts

Physical change is a temporary change. 2 Examples -Melting Ice , Shredding paper

Chemical change is a permanent change. 2 Examples - Burning Wood , Souring milk

4. Explain the difference between **accuracy** and **precision**. 5pts

Accuracy refers to the closeness of a measured value to a standard or known value. Precision refers to the closeness of two or more measurements to each other.

