



# Classifying Matter Worksheet Pdf

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Objectives: • Explain the physical states of matter – solid, liquid, gas • Classify substances as pure substances or mixtures and further identify: o Pure . First classify each substance as either a mixture or a pure substance. Then classify each mixture into one of 3 groups; mechanical mixtures, solutions, or suspensions and colloids. Classify each of the following as one of an Atom (A), a Molecule (M) or an Ion (I). e. Ge. f. g.  $\text{Ca}^{2+}$ . h.  $\text{NH}_3$ . 4. Describe the difference between a homogeneous and heterogeneous mixture. Give an example of each. 5. Assume you have 10g of pure gold. Should you refer to the gold as an atom or an element? Why? 6. Classify each of the following as one of an Atom (A), a Molecule (M) or an Ion (I). e. Ge. f. g.  $\text{Ca}^{2+}$ . h.  $\text{NH}_3$ . 4. Describe the difference between a homogeneous and heterogeneous mixture. Give an example of each. 5. Assume you have 10g of pure gold. Should you refer to the gold as an atom or an element? Why?. Classify each of the materials below. In the center column, state whether the material is a pure substance or a mixture. If the material is a pure substance, further classify it as either an element or compound in the right column. Similarly, if the material is a mixture, further classify it as homogeneous or heterogeneous in the right column.