Unit -A Overview: MATTER

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| **Main Ideas** | **Essential Questions** |
| 1. Matter exists as either a pure substance (an element or a compound) or a mixture (heterogeneous or homogenous).
2. A physical property can be observed without changing the identity of the material.
3. A chemical property can be observed when one or more new substances are formed.
 | 1. What are the differences between pure substances and mixtures?
2. How are elements and compounds identified?
3. How are suspensions, solutions, and colloids related?
4. What are physical and chemical properties?
5. What are the differences and similarities of physical and chemical changes?
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| **Skills** |
| 1. Define substances and mixtures.
2. Identify elements and compounds.
3. Compare and contrast solutions, colloids, and suspensions.
4. Identify substances using physical properties.
5. Compare and contrast physical and chemical changes.
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| **Key Vocabulary** |
| 1. matter, atom, pure substance, element, compound, molecule, mixture, heterogeneous mixture, homogeneous mixture, solution, dissolve, solute, solvent
2. physical property, physical change, mass, volume, weight, density, solubility
3. chemical property, chemical change
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| **STANDARDS**  | **Review Resources** |
| **PSc.2.1 Understand types, properties, and structure of matter.** 1. PSc.2.1.1 Classify matter as homogeneous or heterogeneous; pure substance or mixture; element or compound; metals, nonmetals, or metalloids; solution, colloid, or suspension.
2. PSc.2.1.2 Explain the phases of matter and the physical changes that matter undergoes.

 1. PSc.2.1.3 Compare physical and chemical properties of various types of matter.
2. PSc.2.1.4 Interpret the data presented in the Bohr model diagrams and dot diagrams for atoms and ions of elements 1 through 18.
 | 1. 1-Key Words Worksheet
2. 2-Unit Review Worksheet
3. 3- Ppt – Classification of Matter

4. Class Worksheets |