

June 2009

Modified Physical Science
Benchmarks

Grade 8

Standard 8: Understands the structure and properties of matter

MPSC8.1 Knows that matter has different states and that each state has distinct physical properties; some common materials such as water can be changed from one state to another by heating or cooling.

- solids
- liquids
- gas

MPSC8.2 Knows that substances can be classified by their physical and chemical properties .

- magnetism
- conductivity
- density
- solubility
- boiling and melting points & freezing

MPSC8.3 Demonstrates an awareness that matter is made up of tiny particles called atoms, and different arrangements of atoms into groups comprised of all substances.

- all matter is made of atoms
- atoms are too small to see with a light microscope

MPSC8.4 Demonstrates an awareness that substances can be classified by their physical and chemical properties.

- magnetism
- conductivity
- density
- solubility
- boiling, melting, and freezing points

MPSC8.5 Demonstrates an awareness of physical and chemical change.

- during a physical change a substance keeps its chemical composition and properties
- examples of chemical changes include baking, burning wood, cooking an egg, and iron rusting