

CLASS 7

SCIENCE

REVISION NOTES

Revision Notes for Class 7 Science Chapter 5: Changes Around Us – Physical and Chemical

Quick revision notes summarizing all key concepts from Class 7 Science Chapter 5 "Changes Around Us: Physical and Chemical".

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A **physical change** only alters the shape, size, or state of a substance; no new substance is formed, and it is often (but not always) reversible.

A **chemical change** forms one or more new substances with different properties; it is generally irreversible.

Reversible changes can be undone to recover the original substance (e.g., melting ice, dissolving sugar in water, boiling water). **Irreversible changes** cannot be undone (e.g., rusting, burning, ripening, cooking).

Combustion is a chemical process where a substance reacts with oxygen and releases heat. It requires three things: a combustible substance (fuel), oxygen, and the substance reaching its **ignition temperature**.

Ignition temperature is the minimum temperature at which a substance catches fire.

Some processes (like burning a candle) involve **both** physical change (melting/evaporating wax) and chemical change (burning wax vapour) happening together.

Rusting of iron and **curdling** of milk are classic examples of chemical changes forming new substances (iron oxide; curd).

Magnesium oxide (formed when magnesium burns) is basic in nature; burning magnesium is a chemical change.

Lime water (calcium hydroxide solution) turns milky when carbon dioxide gas is passed through it, forming calcium carbonate — a standard test for CO₂.

Soil formation from rocks involves both physical weathering (breaking rocks into smaller pieces) and chemical weathering (altering mineral composition).

NCERT Solutions: [Class 7 Science Chapter 5](#)

Extra Questions: [Class 7 Science Chapter 5](#)

For the full chapter, see the [Class 7 Science book page](#) and the [Class 7 Science Formulas Handbook](#).