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changes chemical and Physical about Worksheet الملف

[Almanahj Website](#) → [American curriculum](#) → [8th Grade](#) → [Physics](#) → [Term 1](#) → [The file](#)

More files for 8th Grade , Subject Physics , Term 1

Worksheet about Grammar physical description	1
Health and physical worksheet	2
Worksheet about Practice Physical description	3
Worksheet about States of matter	4
Physical Education Exam	5
Worksheet about Stages of Physical Development	6
Worksheet about Physical fitness test	7

Physical and Chemical Changes

Physical changes usually occur when heat (energy) is either added or taken away. The substance is the same (**NO CHANGE**).

Example: Ice cube melting, ripping paper, cutting an apple in half



In a **chemical change**, the substances are **changed chemically** and display different physical and chemical properties after the change.

Examples: combustion (burning), cooking an egg, rusting of an iron pan



Part A: Directions: Fill in the blanks: Chemical or Physical Changes

Crushing Rocks _____

Condensation _____

Baking a Cake _____

Water freezes to produce ice, this means a _____ change has taken place.

When a piece of magnesium ribbon is placed into beaker containing hydrochloric acid bubbling is observed, this means a _____ change has taken place.

Part B

Can you recognize the chemical and physical changes that happen all around us? If you change the way something looks, but haven't made a new substance, a **physical change (P)** has occurred. If the substance has been changed into another substance, a **chemical change (C)** has occurred.

1.	An ice cube is placed in the sun. Later there is a puddle of water. Later still the puddle is gone.
2.	Two chemicals are mixed together and a gas is produced.
3.	A bicycle changes color as it rusts.
4.	A solid is crushed to a powder.
5.	Two substances are mixed and light is produced.
6.	A piece of ice melts and reacts with sodium.
7.	Mixing salt and pepper.
8.	A marshmallow is toasted over a campfire.

9.	A marshmallow is cut in half.
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True (T) or False (F)

1.	Changing the size and shapes of pieces of wood would be a chemical change.
2.	In a physical change, the makeup of matter is changed.
3.	Evaporation occurs when liquid water changes into a gas.
4.	Evaporation is a physical change.
5.	Burning wood is a physical change.
6.	Combining hydrogen and oxygen to make water is a physical change.
7.	Breaking up concrete is a physical change.
8.	When ice cream melts, a chemical change occurs.
9.	Acid rain damaging a marble statue is a physical change.