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What Is the Difference Between an Atom and an Element

An atom is the smallest unit of matter that has the properties of an element. It is composed of a dense core called the nucleus and a series of outer shells

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nucleus, composed of

protons and neutrons,

is at the center of an

atom. Protons have a

positive electric

charge while neutrons

are neutral. The

atomic number of an

atom is dictated by

the number of ...

CH103 – CHAPTER

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2: Atoms and the Periodic Table – Chemistry

In chemistry, an element is a pure substance which cannot be broken down by chemical means, consisting of atoms which have identical numbers of protons in their atomic nuclei. The number of protons in the nucleus

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is the defining property of an element, and is referred to as the atomic number (represented by the symbol Z). Chemical elements constitute all of the baryonic matter of the universe.

General Chemistry/Atoms and Molecules -

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Wikibooks, open ...

Learn how atoms are made up of protons, neutrons, and electrons. Elements are defined by the atomic number, the number of protons in the nucleus. The mass of an atom is determined by the total number of protons and neutrons.

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**Chemistry: The
Atom and Elements
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The exciting topic of Chemistry is explored, covering the atom--protons, neutrons, electrons, nucleus--as well as the basics of the periodic table, elements and atomic number. This is

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followed by an examination of individual elements, such as Lithium, Helium, Carbon, Sodium, Neon and Oxygen.

Introduction to the atom (video) | Khan Academy

An atom is the basic unit of an element. An atom is a form of

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matter which may not be further broken down using any chemical means. A typical atom consists of protons, neutrons, and electrons.

element: The Atom | Infoplease

Atom is the smallest constituent unit of matter that retains the properties of an

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Atom
cloud . Atom
components are
positively-charged
protons and
electrically neutral
neutrons in the
nucleus and
negatively-charged
electrons orbiting this
nucleus.

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Periodic Table of Elements and Chemistry

The smallest unit of a chemical element that has the properties of that element is called an atom . Many elements (e.g., helium) occur as single atoms. Other elements occur as molecules made up of more than one atom.

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Elements that ordinarily occur as diatomic molecules include hydrogen, nitrogen, oxygen, and the halogens, but oxygen also occurs ...

Chemistry The Atom And Elements

Chemistry SEEMS like an intimidating topic for a child age 4

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to learn
about..however, this
is not the case!

Chemistry: The Atom
and Elements breaks
down complex topics
into simple tasty
morsels to enjoy.
Learn about the
structure of the atom,
to the periodic table of
elements.

Atoms, compounds,
Page 16/32

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and ions | Chemistry

library | Science ...

An atom is the

smallest unit of

ordinary matter that

forms a chemical

element. Every solid,

liquid, gas, and

plasma is composed

of neutral or ionized

atoms. Atoms are

extremely small,

typically around 100

picometers across.

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They are so small that accurately predicting their behavior using classical physics—as if they were tennis balls, for example—is not possible due to quantum effects.

What Is an Element in Chemistry?

An element is a pure substance that consists entirely of

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one type of atom. An atom is the smallest amount of a particular element that can be identified as. History ... heat capacity and chemical reactivity. Even though atoms of different elements may seem very similar, the elements themselves may have very different properties.

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**1.16: Elements-
Defined by Their ... -
Chemistry
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"The chemistry of an atom depends only on the number of electrons, which equals the number of protons and is called the atomic number. Chemistry is simply numbers, an idea

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Pythagoras would
have liked.

Smart Science

**Chemistry: The
Atom and Elements
by April Chloe
Terrazas**

This book introduces
the fun and exciting
topic of Chemistry to
young readers. The
Super Smart Science
Series was started as
a way to get younger

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Chemistry and

Biology. I was

inspired by a

WONDERFUL

professor at the

University of Texas at

Austin, Dr. Iverson.

**Chemical element -
Wikipedia**

Introduction to the

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atom. Learn.

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chemistry (Opens a

modal) Preparing to

study chemistry

(Opens a modal)

Elements and atoms

(Opens a modal)

Average atomic mass

(Opens a modal)

Worked example:

Atomic weight

calculation (Opens a

modal) The mole and

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atom | Definition,

Structure, History,

Examples, Diagram

...

An element is a substance that cannot be broken down into simpler chemical substances. There are about 90 naturally occurring elements known on Earth. The

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smallest unit of an element is the atom. All atoms of the same element are identical in mass and other properties, whereas atoms of different elements differ in mass and other properties.

Atom Calculator

A chemical element is a substance that

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contains only one type of atom, which is the smallest particle of an element. Atoms are made up of protons, neutrons, and electrons.. The number of protons in an atom is called the atomic number. For example, all atoms with 6 protons are atoms of the chemical element carbon, and

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all atoms with 92 protons are atoms of the element uranium.

What Is an Atom? - ThoughtCo

An atom with three protons is a lithium atom, an atom with five protons is a boron atom, an atom with six protons is a carbon atom . . . the list goes on. Since an

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atom of one element can be distinguished from an atom of another element by the number of protons in its nucleus, scientists are always interested in this number, and how this number differs between different elements.

Atom - Wikipedia

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A chemical element is a substance that cannot be further broken down by any chemical reaction.

Each element has a unique number of protons in its atom.

For example, a hydrogen atom has 1 proton, while a carbon atom has 6 protons.

Varying the number of electrons in an atom

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of an element

produces ions.

Changing the number

of neutrons produces

...

**Chemistry: The
Atom and Elements
(Super Smart
Science ...**

Atom, smallest unit
into which matter can
be divided without the
release of electrically

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charged particles. It also is the smallest unit of matter that has the characteristic properties of a chemical element. As such, the atom is the basic building block of chemistry.

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