

How Do You Pronounce Worcester Sauce

SJ Ball

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exhibited by certain types of matter of

emitting energy and subatomic
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several naturally occurring elements as
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of the elements

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physics module 7 atoms and nuclei z
explain the growth and decay of
radioactivity in a sample z calculate the
half life and decay constant of a
radioactive substance and z explain the
uses of radioactivity in various fields 26
1 the atomic nucleus soon after the
discovery of nucleus in an atom by
rutherford in 1911

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quantum physics yet even though it has
only 10 15 of the volume of the atom
the nucleus contains more than 99 9 of
the mass of the atom the nucleus is
very small but very massive that was
not predicted try to imagine the
surprise and disbelief of scientists in
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over 3 000 different kinds of atomic
nuclei have been discovered in
elements that span the periodic table
yet each one has unique properties
some may exist forever others
transform within a fraction of a second
some can power satellites as they travel

to the outer reaches of the solar system others have special properties that allow them to treat different forms of cancer

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radioactivity some nuclides have an atomic nucleus that decays spontaneously without any external influence known as radionuclides they transform themselves into other nuclei ionising radiation is emitted during this process this is known as radioactivity

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it some future development of atomic theory perhaps a modification of the thomson model would most likely yield a causal explanation of radioactivity in terms of the internal structure of the atom

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