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titles, they're all free and guaranteed to be PDF-optimized. Most of them are literary classics, like *The Great Gatsby*, *A Tale of Two Cities*, *Crime and Punishment*, etc.

### **From Artefacts To Atoms The**

Overview: never trust an atom, they make up everything! Atoms are the fundamental building blocks of matter and are built

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from protons, neutrons and electrons. A useful way to approach the teaching of atomic structure is to consider the changing models proposed by scientists throughout history. The image here could represent a progression in how students understand atomic theory, starting with ...

**Atomic structure  
teaching resources |**

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## **the science teacher**

Transmission electron  
microscopy DNA  
sequencing is a single-  
molecule sequencing  
technology that uses  
transmission electron  
microscopy techniques.

The method was  
conceived and  
developed in the 1960s  
and 70s, but lost favor  
when the extent of  
damage to the sample  
was recognized. In  
order for DNA to be  
clearly visualized under

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an electron microscope, it must be labeled with heavy atoms.

## **Transmission electron microscopy DNA sequencing - Wikipedia**

The ensuing diffusion of gold and copper atoms between the surfaces of the granules and the hammered sheet support creates a physical bond. Another



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important method used to join precious metals in antiquity and in modern times is soldering. In order to carry out this process, an alloy—e.g., the solder—is formulated so as to have a lower

...

### **Gold in Ancient Egypt | Essay | The Metropolitan Museum of ...**

It was followed by a day reflecting on some

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of the most fascinating stories of preserved artefacts and discoveries made over the past 50 years. ... the history of art and objects of historical and cultural significance — a great example of the peaceful use of atoms,” said Tomo Furusawa, an IAEA Programme Management Officer and co-organiser ...

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**Art and Artefact  
Preservation with  
Nuclear Techniques |  
IAEA**

The history of the metric system began during the Age of Enlightenment with measures of length and weight derived from nature, along with their decimal multiples and fractions. The system became the standard of France and Europe within half a century. Other measures with

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unity ratios were added, and the system went on to be adopted across the world.. The first practical realisation of the ...

## **History of the metric system - Wikipedia**

Long bonds and/or missing atoms . There are probably atoms missing earlier in the .pdb file which makes pdb2gmx go crazy. Check the screen output of pdb2gmx, as

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it will tell you which one is missing. Then add the atoms in your pdb file, energy minimization will put them in the right place, or fix the side chain with e.g. the WhatIF program.

### **Errors - Gromacs**

An international team of scholars, including MIT researchers, has published a new study exploring the history and use of

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letterlocking, reports William J. Broad for The New York Times. The researchers note that they hope their work prompts “novel kinds of archival research, and allows even very well-known artefacts to be examined anew.”

### **Clip New York Times How European Royals Once Shared Their ...**

Isotopes are atoms of the same element that

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contain the same number of protons and electrons but a different number of neutrons. The symbol for an isotope is the chemical symbol (or word) followed by a dash and then the mass number. So C-14 is the isotope of carbon which contains 6 protons, 6 electrons and  $14 - 6 = 8$  neutrons.

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**the Periodic Table |  
CIE IGCSE ...**

Titus Lucretius Carus (died mid to late 50s BCE) was an Epicurean poet of the late Roman republican era. His six-book Latin hexameter poem *De rerum natura* (DRN for short), variously translated *On the nature of things* and *On the nature of the universe*, survives virtually intact, although it is disputed whether he lived to put



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the finishing touches to  
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**Lucretius (Stanford  
Encyclopedia of  
Philosophy)**

An Austrian, Isidor Rabi  
(1898-1988) working in  
the Department of  
Physics at Columbia  
University in New York,  
discovered a way to  
detect and measure  
single states of rotation  
of atoms and  
molecules. He also  
succeeded in

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determining the magnetic moments of the nuclei. For his discoveries, he was awarded the Nobel Prize in Physics in 1944.

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## **MRI protocols , MRI planning , MRI techniques and anatomy**

When hydrogen atoms dissolved in carbon steel meet a non-metallic inclusion, e.g., a sulfide or oxide

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particle, a slag inclusion, a lamination, or other discontinuity, they often combine irreversibly to form molecular hydrogen. The molecular hydrogen, unlike atomic hydrogen, cannot escape; therefore, it accumulates and builds up high pressure ...

**Slag Inclusion - an  
overview |  
ScienceDirect Topics**

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This would be so if God had created the atoms so as to construct macroscopic objects from them, just as we create the parts of artefacts only for the sake of the artefacts. It might be argued that the same objective could be reached without theism if there is irreducible teleology in nature that gives significance to the rest.

**Substance (Stanford**

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**Encyclopedia of  
Philosophy)**

Recent work has shown that Pt-group species can coexist as nanoparticles and single atoms 2,3,4, and that careful synthetic approaches can produce exclusively single atoms 4,5,6,7,8.

**Structural evolution  
of atomically  
dispersed Pt  
catalysts ...**

Nicholas Negroponte,

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Founder of MIT's Media Lab, theorised in his 1995 book 'Being Digital' the shift from physical artefacts to their digital twins, or in Negroponte's parlance 'from atoms to bits'.

This, he argued, fundamentally changes the way we communicate, create and consume. And it is now, with the emergence of powerful ...

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**A Cambrian  
Explosion of  
innovation and  
creativity**

Seeing atoms with  
advanced electron  
microscopes would,  
Feynman added, be a  
necessary complement  
to the manipulation of  
atoms that was one of  
the talk's broader  
themes.

**Surely you're happy,  
Mr Feynman! |  
Nature**

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### **Nanotechnology**

The atoms of some chemical elements have different forms, called isotopes. These break down over time in a process scientists call radioactive decay. Each original isotope, called the parent, gradually decays to form a new isotope, called the daughter. Each isotope is identified with what is called a 'mass number'.



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**Absolute dating —  
Science Learning  
Hub**

You might think that  
what is the need of  
calculating half-life?  
But, Half-Life has  
paramount significance  
in nuclear physics. You  
wouldn't have  
understood the  
concepts of unstable  
atom movement,  
radioactive decaying,  
atom stability, etc.  
without understanding

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half life formula and  
how to calculate it.

## For Ultimate Measurement Standards Hardback

### **What is Half Life and How to Calculate it?**

#### **| Half Life ...**

The stored energy is released as visible light after stimulation of the atoms on the phosphor plate with a laser beam in the processor. The light is registered and converted into a digital signal. After erasing the imaging plate, it can then be re-used. ...

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Artefacts: movement,  
processing artefacts  
etc.

### **Equine diagnostic imaging | Veterian Key**

Atoms that gain  
electrons and therefore  
have a net negative  
charge are known as  
anions. Conversely,  
atoms that lose  
electrons and therefore  
have a net positive  
charge are called  
cations. Cations tend to

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be metals, while anions tend to be non-metals. Ions may also be single atoms or multiple, complex groups of atoms.

## **MCQ Questions for Class 10 Science Chapter 3 Metals and ...**

A discussion of these artefacts can be found >here< and the details on how to correct for them are in this paper by Rocklin et al.. It is

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important not to have  
atoms bearing a  
charge when the vdW  
interactions are  
decoupled (see this  
page for additional  
discussion). Thus, as  
you can see from the  
.mdp files, the charges  
are always decoupled

...

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