

Going deeper



As you are reading this issue of *SSR in Practice*, don't forget that you also have online access to *SSR in Depth*

This issue of *SSR in Depth* contains a number of practically-orientated 'science notes', as well as longer articles.

March SSR in Depth contents

Science notes

Some science lessons from COVID

Peter Borrows

Galileo only used spheres

Iain MacInnes

Solving real-life problems in physics: How hot is a Bunsen flame?

Rik Clay

Some sound experiments

Randal Henly

A spectrum produced by water

Iain MacInnes

Articles

Using immobilised yeast synoptically at A-level

Jon Hale

Teaching secondary biology

Michael J. Reiss and Mark Winterbottom

Teaching science interdisciplinarily – the BRaSSS approach

Michael J. Reiss and Tamjid Mujtaba

MFL meets science in an Epistemic Insight workshop about autonomous cars around the world

Martin Pickett and Berry Billingsley

Reviews

Science websearch



www.ase.org.uk/SSR-in-depth/issue-387

Book reviews and websearch

SSR in Depth also includes the journal's book review section and *Science websearch* feature. Sites are suggested on the basis of 'take a look, you might find something interesting and useful'. Inclusion of a website does not imply that ASE endorses the content of the site.

Please send details of any websites that you have found, or produce, to the *Science websearch* editor Jon Tarrant at jontarrant@cantab.net. We would also be interested in hearing about how you have used websites that have appeared in *Science websearch* in your educational setting.

Call for proposals

Have you ever thought of writing for *SSR in Practice*? If so, now is the ideal time to submit a proposal as we are planning out the next couple of issues.

Submitting your article proposal couldn't be easier; just complete the form at:

<https://forms.gle/rx3oTp5Ve9TEVH8P8>

The editors are particularly keen to encourage proposals for case studies, hinterland and practical idea articles from classroom teachers and technicians.

A helpful writing outline will be provided for these types of articles, and case study authors will be given the opportunity to work with a writing mentor.

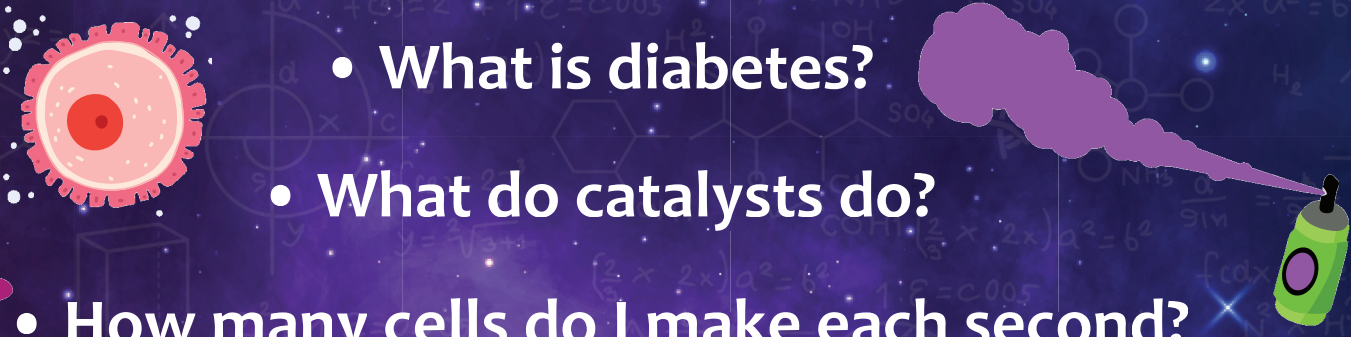
The writing outlines may be downloaded from <https://www.ase.org.uk/submission-guidelines>

If your proposal is accepted, the Editor will discuss timings with you to ensure that they are achievable alongside your schedule. You do not need to be available to write immediately after acceptance.

Please note that although *SSR in Practice* works through the submission and acceptance of proposals, *SSR in Depth* continues to accept full articles. Submission guidelines for *SSR in Depth* may also be found via the link above.



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 - What is diabetes?
 - What do catalysts do?
 - How many cells do I make each second?
- 

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The *original* dual-scale, quality system of molecular and atomic models

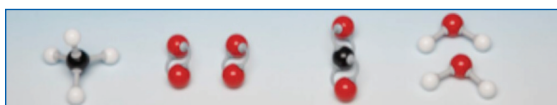
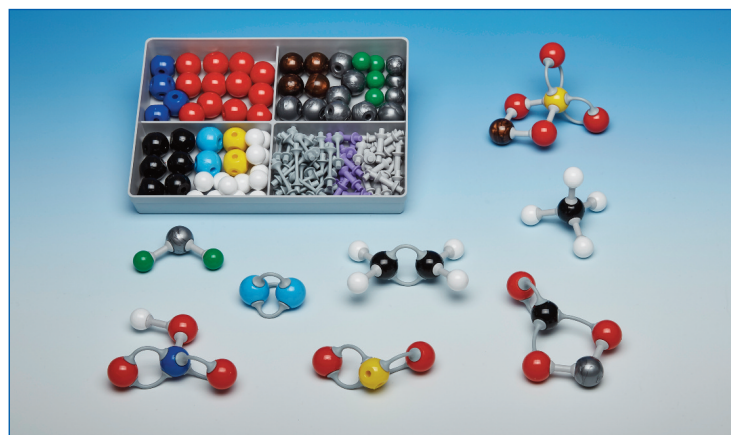
Molecular Model Set for Key Stage 3 & 4 Chemistry

Art. Ref: MMS-012 - updated for the 2016 Curriculum

Contents: 66 Atoms and 70 links.

Ages 12+

Scope of Kit: Introduction to atoms, elements and compounds and their chemical symbols and formulae; the conservation of mass and chemical reactions; using formulae and equations to represent chemical reactions; combustion, thermal decomposition, oxidation and displacement reactions; the reactions of acids with metals and alkalis.



Molecular Model Set for Biological Science

Art. Ref: MMS-033 - Advanced Level Biology

Contents: 34 Atoms and 88 links

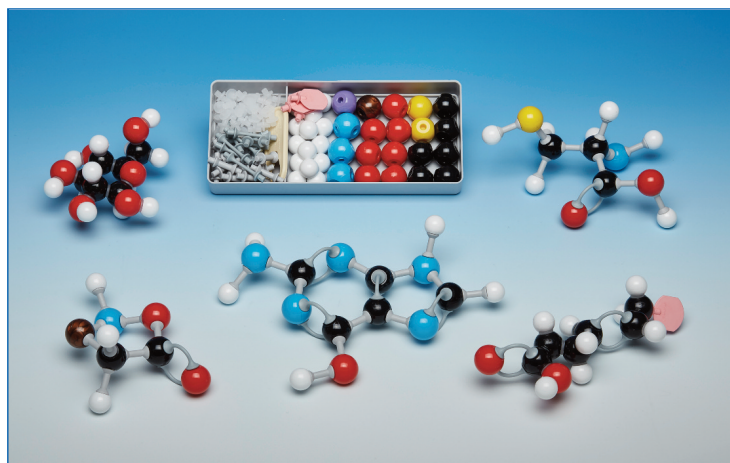
Ages 16+

Designed for use by students working on their own or in pairs, to make a range of open, or compact-style models of simple organic molecules and the monomer building blocks of carbohydrates, proteins, lipids and nucleic acids.

With 1 kit: Basic organic chemistry functional groups; simple aldoses, ribose, ketoses, fructose, monosaccharides of glucose, galactose; one example of 15 of the amino acids; the sugars in DNA, RNA and the phosphate group; saturated and unsaturated cis/trans fats and lipids; pyrimidines.

With 2 kits: Comparison of Alpha & Beta glucose; formation of glycosidic bond; one example of the 20 amino acids; formation of proteins and the peptide link; purines in DNA and the nucleotides.

With 3 kits: Photosynthesis reaction; respiration reaction.

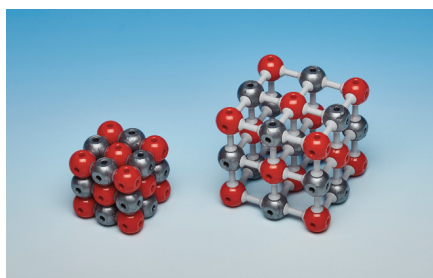


Additional new items for 2020

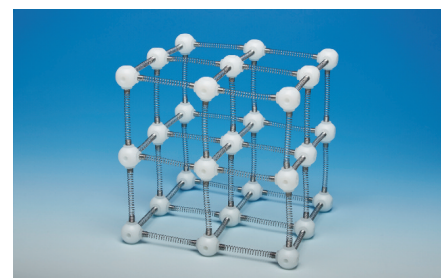
Self assembly Inorganic Crystal Kits: Diamond Clear model; Metal Oxide lattice and Vibrating Atoms kit



MKO-100-30-Clr
Clear Diamond model 30 atoms



MKO-150-27 Metal Oxide
(MgO / FeO) Crystal Lattice



MVAM-27-UN
Vibrating atoms kit