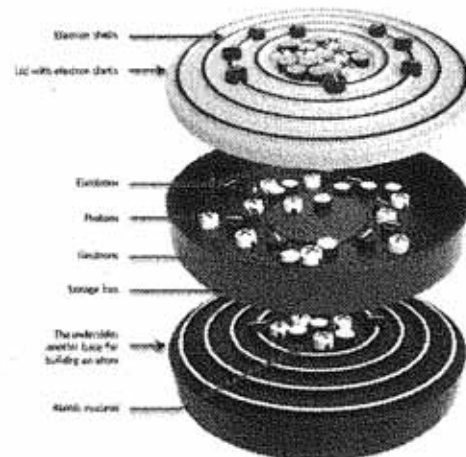


BRIGHT Atom is a Swedish, award-winning, patented and patent pending hands-on teaching aid for all. The physical model of the atomic structure, based on Bohr's model of the atom, is a great tool for the students to get a hands-on experience of our smallest building stones.

The BRIGHT Atom invites the students to use their hands in the learning process: to touch, feel and pick with the different parts to make your own atom is a great way to learn. Using the BRIGHT Atom, you can also easily make isotopes and ions. All in one product!

The atomic structure is the base in most science; to really grasp these abstract concepts makes further science studies smoother and easier. To really understand the essentials makes science more comprehensible, leading to higher levels of interest for science and increased study results. And hopefully even more future scientists!



**One item:**

- box with lid; 4 electron shells on the lid and at the underside of the box
- 30 protons, 30 neutrons, 30 electrons
- Description of product
- Smart storing of elementary particles inside the box
- All parts are tactile; works for all students

**To make an Atom:**

In this example we use the lid as a base to make an *oxygen atom*. Place 8 protons (white particles marked with +) in the atomic nucleus (center of the lid). Place 8 neutrons (all white particles) in the atomic nucleus, with the protons. Place 2 electrons (black particles marked with -) on the inner shell. Then place the other 6 electrons on the second shell.



**To make an isotope:**

Same as making an atom; make sure to add the right number of neutrons! The difference between an atom and an isotope is the number of neutrons in the nucleus.



**To make ions:**

Use both bases to make two atoms. Let the atoms collide, and move over the valence electrons by hand. The two atoms have now become ions: atoms with a positive or negative charge depending on the number of electrons.

*"Students at Warren Central High School have been using the BRIGHT Atom for the past three years. The use of this wonderful hands-on manipulative has revolutionized the way we teach atomic structure across our science curriculum. It has made the explanation of a complex and abstract topic so much easier and faster...which means the class can move onto other objectives with greater understanding."*