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NanoSchoolBox experiment case(s) at the unit price
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About NanoBioNet

The NanoBioNet Competence Centre coordinates a network of over 100 companies and institutions from the economy, science and politics. They have a common interest in research and development as well as in practical applications of nano and biotechnology with the aim of creating marketable products and new jobs. NanoBioNet also organises further education for teachers, practical training for schoolchildren and students, and further training for laboratory assistants, technicians, academics and managers.

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NanoSchoolBox

An experiment case
for the classroom



Making nanotechnology easy to
understand – with exciting experiments
and amazing effects.





Teaching and Learning about Nanotechnology

Why not send your pupils on a journey across the nano-world? We've already packed their case in preparation: the NanoSchoolBox.

Ideal for young people from the age of 16, the experiments and demo objects which the box provides literally bring to life one of the most fascinating high technologies of our times.

Enormous opportunities with tiny particles

This "revolution of tiny particles" is changing everyday life: glass conducts electricity, car mirrors no longer mist up in the rain, bathroom ceramics stay clean and textiles remain waterproof.

How is that possible?

In nanoscience you venture into the dimensions of materials in which substances change their properties due to the minuteness of the particles. As this process is routine, the phenomena observed can be applied to technology.

The word "nano" derives from the Greek word for dwarf. So, the more we understand this world of dwarves, the greater the opportunities created for medicine, electronics and environmental protection. And, not least: Nanotechnology offers enormous growth potential for numerous industries, creating training programmes and jobs in the future.

Experiencing nanotechnology

The NanoSchoolBox contains the tools and materials required for 14 experiments and five demo objects, a CD-ROM with accompanying material and safety data sheets as well as a 68-page brochure with descriptions of the experiments and background information. The experiments can either be demonstrated by teachers or conducted by the pupils themselves in physics, biology or chemistry lessons.

The experiments

- Experiments to obtain the lotus effect
- Hydrophobic surfaces on wood and stone
- Hydrophobic surfaces on textiles
- Hydrophilic surfaces: "invisible ink" on glass
- Scratch-resistant coating on wood
- Nanocoating for fire protection
- Electrical conductivity of glass through indium tin oxide
- Photocatalysis with titanium oxide
- Ferrofluids in the magnetic field
- Density separation with ferrofluid
- Identification of colloids through the Tyndall effect
- Production of nanoscale gold
- Memory metal – atom movements in the nanodimension
- Spitting fire with small particles

The demo objects

- Play of colours on surfaces: hemisphere with flip-flop effect
- Pregnancy test: gold particles identify biomolecules
- From sand to chip I: silica sand
- From sand to chip II: rock crystal
- From sand to chip III: silicon wafer

Order the NanoSchoolBox

You can order the NanoSchoolBox by fax, post or email at the price of € 235 plus VAT and forwarding charges. The invoice will be sent together with your delivery.

By fax

To order simply complete the form on the reverse and send by fax.

By post

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Science Park 1
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By email

Our email address is info@nanobionet.de

Please indicate the delivery address and number of items in each case.