

Dentistry

In tooth restorations, nanotechnology has achieved both stronger and more effective decay fillings than those currently available.

Soon it will be possible to permanently attach false teeth to the jaw or using high-tech plastic bonding material to restore a tooth to its natural strength and beauty easily.



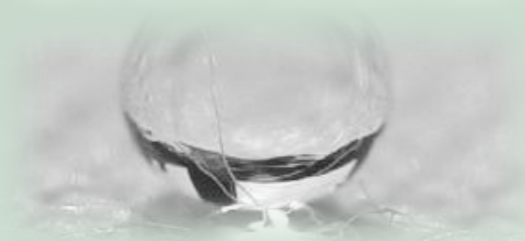
"In the future it could also be possible to make foods easier for elderly people with swallowing difficulties to each."



Waterproof Material

Through known Nanotechniques we are making the most water-repelling material ever created.

"A jet of water bounces off the fabric without leaving a trace."



The secret to this incredible water resistance is the layer of silicone nano-filaments, which are highly chemically hydrophobic. The spiky structure of the 40 nanometre wide filaments strengthens that effect, to create a coating that prevents water droplets from soaking through the coating to the polyester fibres underneath.



This durable, completely waterproof material can be used in clothing and such things as a rain cover for a baby's buggy!

Environment

"Making plastic shopping bags that are thinner but just as strong as the standard plastic market bag."



Nanotechnology offers new solutions through particles and filter systems that can bind and remove or inactivate pollutants within land, sea and air. The promise is of more efficient use of resources, renewable energy, environmental monitoring and many more benefits.

Technology

The possible advancements due to Nanotechnology in the future are unimaginable. . . .



Computers made scrunchable.

Phones, such as in Nokia's "Morph" Concept, made to change to different forms reacting to what we want from them. Sensors, auto self-cleaning, stretchable, even wearable to not. . .

"Nowadays, we teenagers use technology 24/7. Imagine the teenagers of the future!"

Toy Industry

Nanotechnology motors are being used in Toy Industry now, making moving dolls and robots function smoother and swifter.

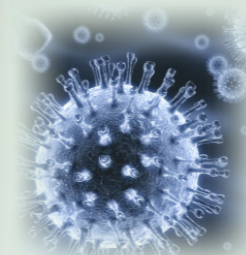


Things such as eye movement and interactive responses are becoming exceedingly more complex and lifelike; soon, will we even be able to tell if they're a toy or not?

"Where is a child without her doll?"

Pregnancy

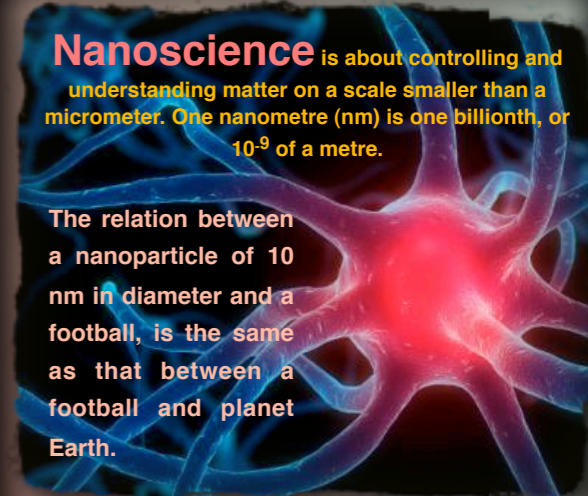
The home pregnancy test is an excellent example of how nano-properties can be used. The test uses gold particles to determine the presence of hCG, produced in pregnancy by the developing embryo.



Solid nanoparticles also have the ability to enhance grey-scale ultrasound images to a great quality.

Nanoscience is about controlling and understanding matter on a scale smaller than a micrometer. One nanometre (nm) is one billionth, or 10^{-9} of a metre.

The relation between a nanoparticle of 10 nm in diameter and a football, is the same as that between a football and planet Earth.



It is found that people who live in countries with a relatively high level of "religiosity" are less likely to agree that "nanotechnology is morally acceptable".

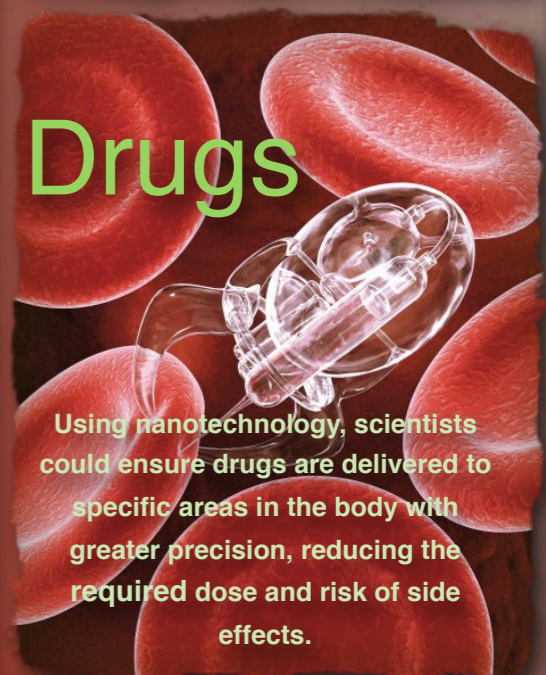
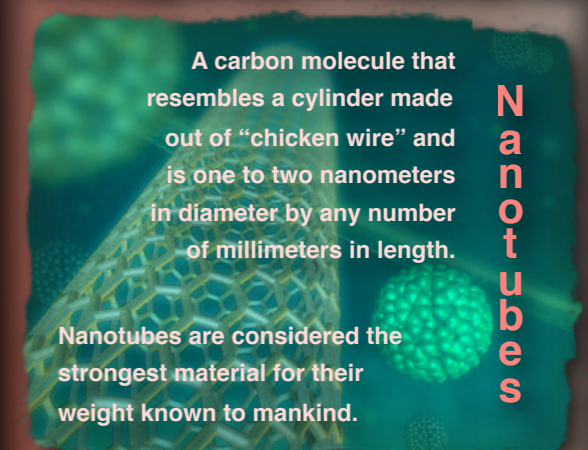
In the U.S. and E.U. countries like Italy and Ireland, nanotechnology and its potential to alter living organisms or even perhaps lead to synthetic life, is not widely approved of.

Religion

A carbon molecule that resembles a cylinder made out of "chicken wire" and is one to two nanometers in diameter by any number of millimeters in length.

Nanotubes are considered the strongest material for their weight known to mankind.

Nanotubes



Drugs

Using nanotechnology, scientists could ensure drugs are delivered to specific areas in the body with greater precision, reducing the required dose and risk of side effects.

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Nanoscience Throughout Our Whole Lives

