

# Nanotechnology

Learn about the very small

**What is nanotechnology?** An *exciting* area of science and engineering that occurs at the *atomic* and *molecular* level — at the 1-100 nanometer range. So small, we can't see the structures with our eyes.

## Compare the size of things to the "nanoscale"

Child ~ 1m



10<sup>-9</sup> meters



Nanoscale -- Too small to see!

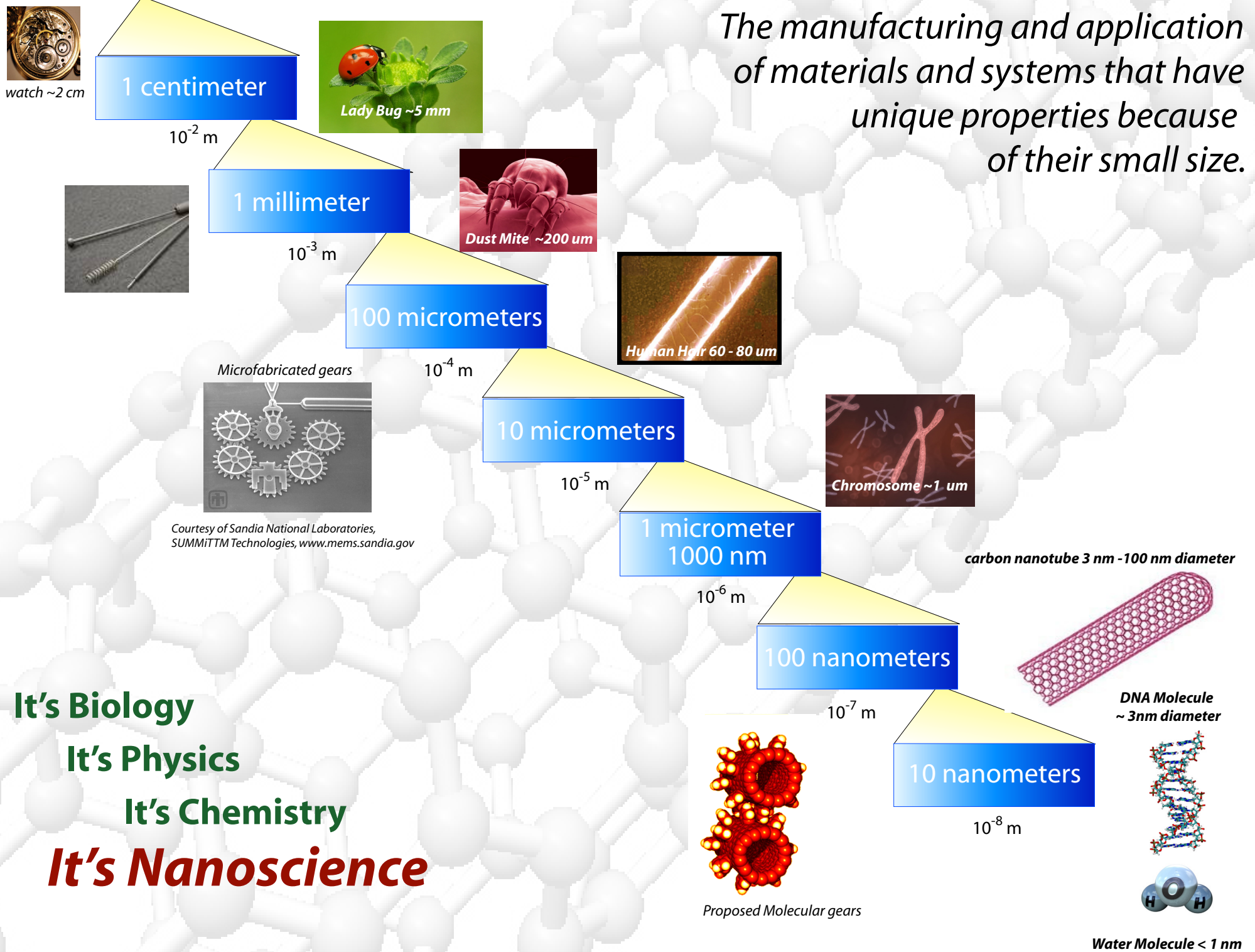
## What is a nanometer?

One nanometer is 10<sup>-9</sup> meters (one billionth) or about 3 atoms long! One of your hairs is about 60 - 80,000 nanometers wide!

"Nano" -- From the Greek word for "dwarf"

## What is nanotechnology all about?

The manufacturing and application of materials and systems that have unique properties because of their small size.



It's Biology

It's Physics

It's Chemistry

**It's Nanoscience**



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