

# The Magic of the Nano World is in your pencil (Nano in Nature K-5 Book 1)



New STEM Blended Learning textbook combining the geometry of mathematics required in K-5 and the tiny world of nanoscience. Visual and interactive elements show the movement of energy at the atomic level, where geometric shapes form the patterns in nature. Nanotechnology development is already changing our world in communication, enhanced materials, medical solutions, robotics, automotive, energy and space. Teachers and students can expand their knowledge with videos, including a classroom experiment with the graphite in a pencil. The graphene component of carbon (C<sub>6</sub>) is visible with the atomic force microscope (AFM) in the video of six atoms forming the hexagon shape at the nanoscale. Size matters in science and there are two interactive components that students can control, showing the scales of science from the universe down to the plank scale, based on the math of the power of 10. The book also includes links to the four NanoMission educational games to introduce bio-nanotechnology and the future of medicine at the nanoscale of science. The Virtual Nano Lab at the University of Virginia (UV), provides hands-on experience with SEM, AFM, and STM microscopes online. The website has over 8 million global participants since it was introduced, and is one of the most important resources for all grades K-12. Introducing nanoscale science as the study of energy movement in nature that includes geometry, enhances the students ability to identify patterns and relationships, helping them to connect the dots as they move into the higher grades. Nanoscale science unites physics, chemistry and biology with math and engineering, creating a comprehensive understanding of our world for their future. It will help teachers put the Wow back into learning!

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