

# Neo/Simulation: Exploring Physics 6 Title Set, WIN CD

*Take a broad and in-depth look at Physics, from the fundamentals of force and motion to the Theory of Relativity.*

## *Product Features*

Virtual Simulations	Digital Images, Video, and Animation
Tutorial and Assessment Systems	Interactive Exercises

## *Grade Level*

**High School • College**

## *Detailed Product Information:*

The Exploring Physics Software Library is comprised of six programs on CD-ROM which feature a variety of interactive exercises. Your students will conduct simulations, change variables, record data and analyze their results as they become familiar with the basic principles of physics. This set includes: Force & Motion; Heat & Energy; Waves & Sound; Light & Optics; Electricity & Magnetism; and Modern Physics. Programs are available for purchase individually or you can save money by choosing the entire series!

### **Individual Topics Covered:**

#### **Neo/Simulation: Electricity & Magnetism (#4541)**

Explore key concepts via twenty-two interactive simulations!

Fully interactive simulation program allows students to set up and control their choice of “virtual” labs as they explore the fundamental concepts of electricity and magnetism. They’ll conduct simulations, modify variables, record and plot results, and analyze data - all on the computer! In the process, they’ll gain an understanding of electric charges and fields; capacitance; AC and DC circuits; and magnetism.

#### **Neo/Simulation: Force & Motion (#4542)**

Simulate the basic laws of physics – in a virtual lab!

Explore the fundamental concepts of force and motion through a series of thirteen interactive laboratory simulations. Your students will conduct the simulations, modify variables, record and graph results, and analyze the data - all on their computer. In the process, they’ll gain a thorough understanding of vector addition, relative motion, projectile motion, circular motion, elastic and inelastic collisions and much more!

#### **Neo/Simulation: Heat & Energy (#4543)**

Conduct interactive simulations of basic thermodynamics!

Explore the world of heat and energy in a “virtual” laboratory. Your students can select from fifteen experiments covering such topics as gas diffusion; maxwell’s Distribution; Brownian Motion; isobaric, isochoric, isothermal and adiabatic processes; specific heat; the Carnot Cycle; evaporation and condensation; and the thermodynamic cycles. In each, they’ll have a chance to run a simulation, change variables, record and graph data, and analyze their results - all on the computer.

#### **Neo/Simulation: Light & Optics (#4544)**

Conduct “virtual” simulations of the properties of light and sound!

Challenge your students with sixteen interactive simulations of the basic principles of light and sound. They’ll explore reflection and refraction; lenses and mirrors; interference; diffraction; polarization and more! With each, they’ll conduct simulations, change variables, record data and analyze their results, as they become familiar with these critical concepts.

## **Tangent Scientific**

P.O. Box 705, Lewiston, NY 14092 • phone 1-800-363-2908 • fax 1-877-704-1555  
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**Neo/Simulation: Modern Physics (#4545)**

Conduct interactive simulations of contemporary physics concepts!

Explore the world of modern physics in a "virtual" laboratory. Your students can select from ten experiments covering such topics as the photoelectric effect; Compton Scattering; Bohr's Postulates; wave properties of particles; the laser; the binding energy of the nucleus; and the relativity of length and time. In each, they'll have a chance to run a simulation, change variables, record and graph data, and analyze their results - all on the computer.

**Neo/Simulation: Waves & Sound (#4546)**

Simulate the basics of wave physics!

Fully interactive simulation program allows students to set up and control their choice of seven labs as they explore the fundamental concepts of waves and sounds. They'll conduct simulations, modify variables, record and plot results, and analyze data - all in a "virtual" lab! In the process, they'll gain an understanding of waves, the Doppler Effect, oscillations and much more!

*System Requirements:***Windows:**

Windows 98 or greater, 64MB RAM

*List Price:*

Neo/Simulation: Exploring Physics 6 Title Set, WIN CD, Single User  
Item: 99454001      Price: \$359.00

Also available for purchase individual titles (6 to choose from):

Neo/Simulation: Electricity & Magnetism, WIN CD, Single User  
Item: 99454101      Price:     \$59.00

Neo/Simulation: Force & Motion, WIN CD, Single User  
Item: 99454201      Price:     \$59.00

Neo/Simulation: Heat & Energy, WIN CD, Single User  
Item: 99454301      Price:     \$59.00

Neo/Simulation: Light & Optics, WIN CD, Single User  
Item: 99454401      Price:     \$59.00

Neo/Simulation: Modern Physics, WIN CD, Single User  
Item: 99454501      Price:     \$59.00

Neo/Simulation: Waves & Sound, WIN CD, Single User  
Item: 99454601      Price:     \$59.00

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# About Tangent

## *Ordering Information*

Tangent Scientific accepts official purchase orders from recognized institutions. We require prepayment for individuals, home-schoolers, and businesses. You may place a purchase order with Tangent by e-mail, mail, fax, or telephone.

## *Have a product or curriculum question?*

Tangent Scientific can answer your questions and help you select the best software available to suit your needs. We strongly encourage you to call or e-mail our office with any questions you may have.

## *To request product information, brochure or catalog?*

Call or e-mail your request to our office and we will be happy to forward all available product information.

## *Previews*

At your request software can be previewed and evaluated before you commit to the purchase – just by calling 1-800-363-2908. Previews are full, complete versions of the program that are made available to interested educators for a trial period of 15 days without the need for an official purchase order. Call for further details!

## *Request a Quote*

For competitive product pricing on larger network, building, site or district licenses and custom software packages, please contact customer service by telephone or e-mail. Please be sure to include which product(s) you are interested in, and the number of users you wish to purchase.

## *Contact Us*

Toll Free Telephone  
**1 800 363 2908**

Toll Free Fax  
**1 877 704 1555**

## *Our Complete Mailing Address is:*

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## *E-Mail:*

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## *Technical Support:*

For technical assistance please complete the Support Form on our webpage.

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