

# P3D™

UNBOUND TEACHING POSSIBILITIES

P3D's award winning programmes are extremely easy to use and totally interactive. They provide for high quality and realistic virtual reality images which feature precise scientific details and ingenious pedagogical concept solutions. Biology 1 program allows, among others, for a fascinating trip within the human body presented in virtual reality 3D images consisting of three independent overlapping layers (muscles, skeleton and internal organs) which may be displayed in any desired combination. Moreover, detailed 3D images and videos showing different body parts and processes allow for an in depth exploration of the human anatomy. P3D's Biology 2 program main focus is microbiology, rendering easy to explain quiet difficult topics as for example the cell division process, the DNA double-helix with its nitrogen-hydrogen and oxygen-hydrogen bridges, the DNA replication process or the way our body is infected and defends itself against viruses and bacteria. The new award winning Biology 3 program presents animated 3D interactive models of all different animal orders, allowing students to understand and wonder at our Earth's varying life forms and rich biodiversity.

P3D's Geography program presents, among other features, totally interactive 3D maps which may be shown alternatively in a geostationary rotating view or as a planisphere projection, while the equinox and solstice module presents Sun's night shadow on Earth on different zones and at different times of the year, rendering these difficult and abstract topics easy to grasp and unforgettable!

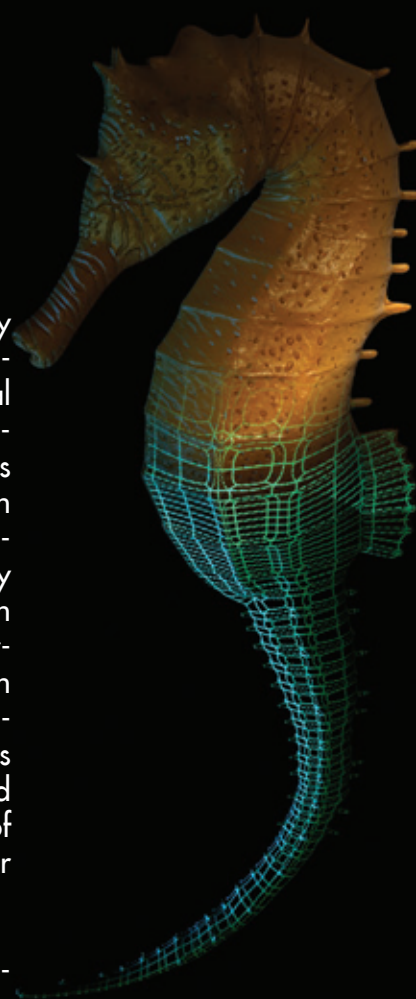
Chemistry shows the mains characteristics of elements in a 3D periodic table, while interactive 3D representations of all elements, the covalent and ionic bonds, spin, orbitals, a virtual reality spectrometer and the main experiments which lead to our present atomic model (Thomson's, Rutherford's Bohr's), all help to convert chemistry lessons into a fascinating trip into the understanding of matter.

In all programs total interactivity allows for boundless navigation possibilities within images, while by using P3D's easy-to-use drawing tools it is possible to write directly on any image or view, which can then be saved in digital form and edited in order to develop personalized educational content.

P3D programs offer teachers and students the needed visual support to oral and written explanation, enormously enhancing understanding, memorization, focus and participation, opening thus boundless teaching possibilities.

## International Sales

lowe@p3d.com.br  
Cel: +(55) 11 - 8339-8567  
Rua Sansão Alves dos Santos, 433 4th floor  
04571-090 - São Paulo - Brazil



worlddidacAward 2006



**Expodidática**

PREMIO INNOVA 2006  
PREMIO INNOVA 2008

## BIOLOGY 1

- THE HUMAN BODY IN VIRTUAL REALITY (ORGANS, SKELETON AND MUSCLES IN THREE DIFFERENT OVERLAPPING LAYERS)
- HUMAN FETAL DEVELOPMENT
- MUSCULAR TISSUE AND THE INTERNAL MUSCLE WORKING
- NERVOUS SYSTEM, NEURON AND THE NERVOUS REFLEX
- CIRCULATORY SYSTEM
- BLOOD CIRCULATION AND THE HEART
- URINARY SYSTEM AND THE KIDNEY
- EYE
- EAR
- TEETH
- SKIN
- FEMALE AND MALE REPRODUCTIVE SYSTEM
- THE FECUNDATION PROCESS

## GEOGRAPHY 1

- THREE-DIMENSIONAL MAPS IN PLANISPHERE AND ON GEOSTATIONARY VIEW
- A) DIURNAL SATELLITE IMAGE
- B) ELEVATION MAP
- C) NOCTURNAL SATELLITE IMAGE
- D) HYDROGRAPHY
- E) PLATE TECTONICS AND VOLCANOES
- F) TIME-ZONE MAPS
- G) GLOBAL CLIMATE AND OCEAN CURRENTS
- H) ECOLOGY
- I) SOILS
- J) VEGETATION
- CARTOGRAPHY
- SOLSTICE, EQUINOX, SEASONS AND YEARLY DAYTIME/ NIGHTTIME
- SOLAR SYSTEM IN VIRTUAL REALITY
- GASEOUS PLANET FORMATION
- ROCKY PLANET FORMATION
- EARTH AND THE MOON IN ORBIT

## BIOLOGY 2

- DNA AND DNA REPLICATION
- CELL
- MITOSIS AND MEIOSIS
- VIRUS AND BACTERIA.
- VIRUS INFECTION AND THE IMMUNE SYSTEM.

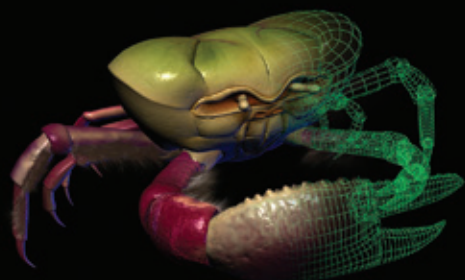
## BIOLOGY 3

- ANIMAL CLASSIFICATION

PORIFERA  
CNIDARIA  
PLATYHELMINTHES  
NEMATODA  
MOLLUSCA  
ANNELIDA  
ARTHROPODA  
ECHINODERMATA  
HEMICHORDATA  
CHORDATA

## CHEMISTRY

- 3D PERIODIC TABLE
- ATOMISTIC AND ATOM MODELS:
- DALTON ATOM
- THOMSON ATOM
- RUTHERFORD ATOM
- SPECTOMETER
- BOHR ATOM
- ORBITALS
- SPIN
- IONIC BOND
- COVALENT BOND



**P3D**<sup>TM</sup>

UNBOUND TEACHING POSSIBILITIES

[WWW.P3D.COM.BR](http://WWW.P3D.COM.BR)