

# **Noviy Disk**

## **Catalogue 2009**

### **Educational software**



# About NOVIY DISK

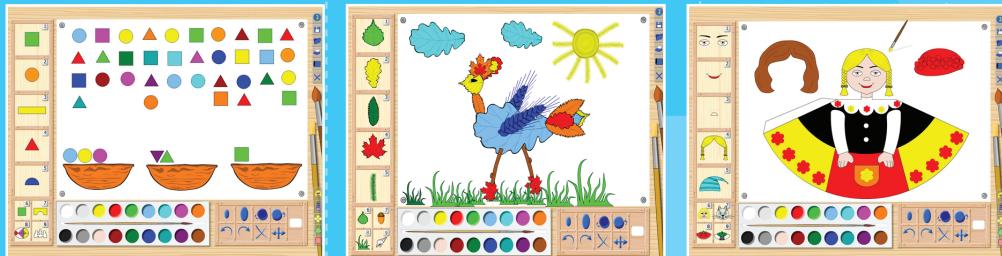
Noviy Disk is the leading Russian Developer, Publisher and Distributor of rich multimedia content. Since 1991 our company has been working in the field of e-learning for Education and Business.

The company's Educational Division produces software for primary and secondary school that support teachers and motivate children of all abilities. Our programs can be easily adapted to any teaching style and national curriculum program and allow teachers to save time for planning lessons. Engaging resources easily differentiated to age and ability, enable all pupils to achieve their potential and make progress.

All our programs can be used for whole class teaching, group work and independent computer-based learning.

We design software that gives flexible opportunities both for teaching and learning.

## CURRICULUM CURIOSITY. Interactive constructor



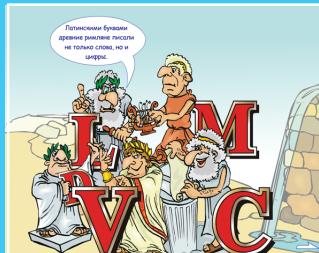
Are your pupils really curious about all the things they have to learn? Let them go through all the subjects with a help of "CURRICULUM CURIOSITY. Interactive constructor". Learning of maths and science will turn into engaging activities. And any child, of course, will be delighted to play with a hand-made theatre and train drama skills. Work with natural materials and decorative elements opens unlimited possibilities for creativity during art and design or technology lessons. This powerful learning tool enables the teacher to realize any lesson idea and encourage children's interest and natural curiosity!

### Features:

- Cross-curricular learning
- Teaching in innovative way
- Support for pupils with SEN and gifted and talented children
- Extending learning opportunities away from the computer

KS 1-2

## HOW TO STUDY HISTORY



This program engages pupils in real-life scenarios where they can experience of being young explorers working with historical events, primary sources and maps.

**CHRONOLOGY** introduces children to the location of dates and events in time.

**PRIMARY SOURCES** teach children to discern primary sources in terms of time and goal of their creation and identify the degree of their authenticity.

**HISTORICAL MAPS** give pupils the knowledge of how to make value judgments about the past with their help.

### Features:

- Acquainting with interesting historical facts
- Numerous assignments for pupils of all abilities
- Forming of a report on errors with recommendations for improvement

KS 1–2

## NATURE ALIVE



This program presents educational materials on the environment in a simple and entertaining manner. Narrated and colourfully illustrated lectures with a range of fun activities, riddles and games allow children to learn in a fun and intuitive way. Various virtual experiments help pupils to better understand physical processes and apply the acquired knowledge to practice. Learners will grasp the difference between animate and inanimate nature; learn about the water cycle, change of seasons, day and night; develop the bump of locality and many more.

### Features:

- 6 complex and interesting topics of the "Environment" course
- Modular structure of topics for individualization of lesson plans
- 70 interactive voice annotated lectures
- 12 supplementary interactive testing assignments for revising certain topics

KS 1–3

# Interactive whiteboard charts

## MOLECULAR PHYSICS AND THERMODYNAMICS

**Агрегатные состояния вещества**

Агрегатные состояния вещества

Процессы перехода из одного агрегатного состояния в другое:

- Изотермический:  $Q = \lambda m$
- Плавление, кристаллизация:  $Q = 0$
- Жажда:  $Q = r m$
- Кипение, конденсация:  $Q < 0$

\* 3D

**Насыщенный пар. Влажность**

Испарение при кипении

Условие кипения:  $p_v > p_a$ , где  $p = p_a + \rho gh$

Пузырьки пара всплывают, увеличиваясь в объеме.

Закипание воды

Кипение – интенсивное образование пузырьков насыщенного пара по всему объему жидкости.

**Тепловые машины**

Схема работы тепловой электростанции

Дымовая труба  
Фильтр  
Пар  
Паровая турбина  
Электрогенератор  
Конденсатор  
Воздух  
Уголь  
Котел  
Насос  
Вода  
Охлаждающая вода  
Градирня

Our charts enable the teacher to present the material with the utmost visibility and check its acquisition by pupils quickly and efficiently. Interactive features of the charts and their content allow teaching more closely to pupils' needs and engage all pupils according to their learning preferences. The theoretical material of the charts is accompanied by vivid and visual demonstrations of scientific phenomena and processes, virtual experiments, video clips, animations, 3D models and interactive drawings. Teachers may find here everything they need to organize effective lessons!

### Features:

- Basic and profound level of material under study
- Two modes of information presentation: hidden and complete
- Large section of multi-level and multi-type problems
- Tables of physical magnitudes

KS 4

# Interactive whiteboard charts

## HUMAN ANATOMY

**Дыхательная система**

- Дыхательные пути
- Нос и горло
- Трахея
- Лёгкие, бронхи, альвеолы
- Газообмен в лёгких

Поперечный разрез легких  
Газообмен в альвеолах  
 $CO_2$

**Органы чувств**

- Строение глаза

Роговица  
Хрусталик  
Сосудистая оболочка Сетчатка  
Слеза  
Зрительная влага Стекловидное тело  
Стекловидное тело

**Выделительная система**

- Фильтрация крови в нефрона

В почечном клубочке...  
Высасывающая артериола  
Поперечный разрез нефrona

This set of charts is intended for learning of biological systems and some related topics. Every chart is saturated with various multimedia resources to encourage interest in studying the subject. There are excellent opportunities for teachers to use problem exploration method of work while explaining new materials and testing pupils during the lesson. Each of these charts is a convenient tool for empowering pupils of all abilities to reach their maximum potential through tailored learning opportunities.

### Features:

- Fast fetching of this or that element to the screen
- Basic and profound level of material under study
- Two modes of information presentation: hidden and complete
- Scientists' biographies and glossary

KS 4

## Interactive whiteboard charts FUNCTION GRAPHS

These charts enable the teacher to make visual demonstrations on how to plot the graphs of various functions (linear, power, exponential, logarithmic, trigonometric, etc.). Graph construction in real time will help children to better understand the sequence of operations for this construction and also to consolidate the acquired knowledge. Every chart is an interactive model that illustrates the studied material thoroughly and provides excellent opportunities for exploring of math problems.

### Features:

- Numerous multi-level and multi-type problems
- Training game
- 3D animations explaining physical meaning of equations
- Convenient navigation

KS 4

## Interactive whiteboard charts RUSSIAN LANGUAGE. MORFOLOGY

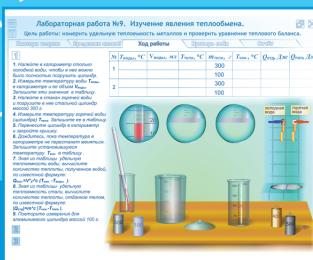
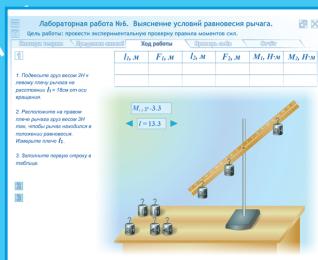
The software will be the irreplaceable assistant for those who study Russian as foreign language. 12 efficiently structured charts are dedicated to the parts of speech and introduce learners to the word formation and composition of sentences. Every chart presents material for observation and practical exercises – these are proverbs, sayings and aphorisms that will broaden pupils' horizons and enrich their knowledge of language. The program promotes not only the study of grammar but the development of linguistic abilities.

### Features:

- Systematic and consistent presentation of material
- Vocabulary expansion and development of linguistic abilities
- Two modes of information presentation: hidden and complete
- Magnifying glass

KS 3–4; FE

# PHYSICS EXPERIMENTS VIRTUAL LABORATORY



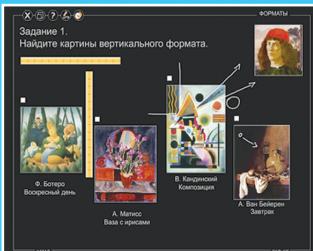
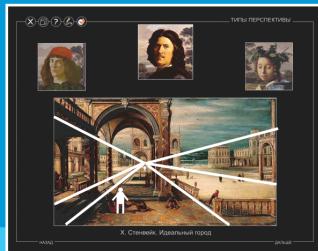
The program is based on exploring, experimental and creative approach to learning. Realistic modeling of experiments allows learners to practice being scientists. Children will be able not just to follow the instructions but develop their own ideas for executing experiments and compare their own conclusions with scientific findings. The program can be also used as a tutorial for solving experimental physical problems included in each lab experiment. This not only improves relevant skills, but also prepares pupils for a practical section of the exam.

## Features:

- Recapitulation section
- Section of experimental tasks
- Magnifying glass
- Calculator

**KS 3**

# ART. How To Understand a Painting



This tour to the virtual museum acquaints learners with fundamentals of art, teaches to analyse masterpieces and understand hidden meanings of a painting and the artist's idea. A non-traditional mode of educational material presentation, in the form of a dialog between the heroes – 3 virtual guides, enables the teacher and students to form absolutely new, heuristic approaches to the perception of art. Animated narrations and lots of engaging multimedia resources will help a teacher to organize effective lessons on Art!

## Features:

- Over 300 of pictures with “enlarge” function
- Over 100 of animated narrations
- Interactive books: glossary, artists' biographies, etc.
- Virtual examination

**KS 3–4; FE**

# Curriculum Curiosity

Interactive  
constructor



Learning through creativity!

## **CONTACTS**

### **Noviy Disk**

10 Petrovsko-Razumovskaya Alleya,  
Build.1, Office 7,  
Moscow, 127083, RUSSIA  
Tel./Fax: +7 (495) 785-65-14  
E-mail: [school@nd.ru](mailto:school@nd.ru)  
[www.school.nd.ru](http://www.school.nd.ru)