برمجيات تفاعلية جامعة ولاية يوتا الأمريكية

المشروع يضم أكثر من ١٠٠ برمجية في محاور الاعداد الهندسة المبرر الجبر الاحصاء الاحصاء المرحلتين الابتدائية والمتوسطة

برمجيات مدينة الملك عبد العزيز للعلوم والتقنية

البرمجيات مستوحاة من مشروع جامعة ولاية يوتا الأمريكية

د عباس حسن غمدوره ۲۱۳۵۲۵۵۰۵۰

A Brief History

Teachers of mathematics for centuries have helped students understand mathematics using "manipulatives"-- visual objects that help illustrate mathematical relationships and applications. Manipulatives allow students to visually examine, explore and develop concepts.

The National Library of Virtual Manipulatives (NLVM) at Utah State University has transported these powerful teaching tools into the virtual dimension of the computer. The NLVM collection of over ' · · interactive software programs, called "applets," are an effective means for accelerating and deepening students' understanding of math.

The NLVM development team consists of mathematicians, math educators and instructional design experts at Utah State University.

The National Science Foundation provided funding for creation of the National Library of Virtual Manipulatives and eNLVM.

About the NLVM

The National Library of Virtual Manipulatives (NLVM) is an NSF supported project that began in 1999 to develop a library of uniquely interactive, web-based virtual manipulatives or concept tutorials, mostly in the form of Java applets, for mathematics instruction (K-17 .emphasis). The project includes dissemination and extensive internal and external evaluation

Learning and understanding mathematics, at every level, requires student engagement. Mathematics is not, as has been said, a spectator sport. Too much of current instruction fails to actively involve students. One way to address the problem is through the use of manipulatives, physical objects that help students visualize relationships and applications. We can now use computers to create virtual learning environments to address the same goals

There is a need for good computer-based mathematical manipulatives and interactive learning tools at elementary, middle school, and high school levels. Our Utah State University team is building Java-based mathematical tools and editors that allow us to create exciting new approaches to interactive mathematical instruction. The use of Java as a programming language provides platform independence and web-based accessibility

The NLVM is a resource from which teachers may freely draw to enrich their mathematics classrooms. The materials are also of importance for the mathematical training of both inservice and pre-service teachers

الصفحة الرئيسية



National Library of Virtual Manipulatives





Virtual Library

About

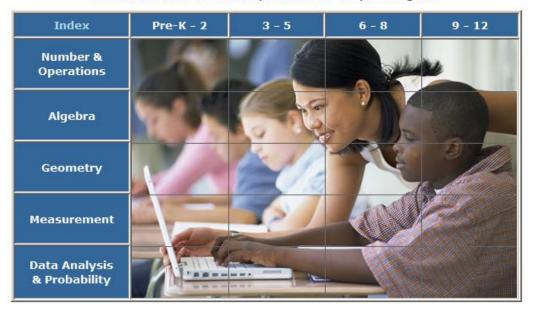
eNLVM

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Click in the table to list manipulatives for a topic and grade





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About

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Index

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National Science Foundation Award Number 9819107

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Download NLVM App, Additional Features, No problems with Java

Number & Operations (Grades Pre-K - 2)

Virtual manipulatives for Number & Operations, grades Pre-K - 2.



Bar Chart – Create a bar chart showing quantities or percentages by labeling columns and clicking on values.



Base Blocks - Illustrate addition and subtraction in a variety of bases.



Base Blocks Addition - Use base ten blocks to model grouping in addition.



Base Blocks Decimals - Add and subtract decimal values using base blocks.



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Algebra (Grades Pre-K - 2)

Virtual manipulatives for Algebra, grades Pre-K - 2.



 ${\bf Algebra\ Tiles}$ – Visualize multiplying and factoring algebraic expressions using tiles.



Color Patterns - Arrange colors to complete a pattern.



Fifteen Puzzle – Solve this virtual version of the classical fifteen puzzle by arranging its tiles.



 ${\bf Pattern~Blocks}$ – Use six common geometric shapes to build patterns and solve problems.



Pentominoes - Use the 12 pentomino combinations to solve problems.



Polyominoes – Build and compare characteristics of biominoes, triominoes, quadrominoes, etc.



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Geometry (Grades Pre-K - 2)

Virtual manipulatives for Geometry, grades Pre-K - 2.



Attribute Blocks - Learn color and shape concepts by sorting blocks.



Attribute Trains – Learn about shape and color patterns of by completing trains of blocks.



Congruent Triangles – Build similar triangles by combining sides and angles.



Geoboard – Use geoboards to illustrate area, perimeter, and rational number concepts.



Geoboard - Isometric - Use geoboard to illustrate three-dimensional shapes.



Ladybug Leaf - Program a ladybug to hide behind a leaf.



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Click here to learn more about the NLVM CD ©





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Measurement (Grades 3 - 5)

About

Virtual manipulatives for Measurement, grades 3 - 5.



Attribute Blocks - Learn color and shape concepts by sorting blocks.



 ${\bf Attribute\ Trains}$ – Learn about shape and color patterns of by completing trains of blocks.



Converting Units - Use a simple system for converting units.



Fill and Pour - Solve puzzles requiring you to fill and pour containers.

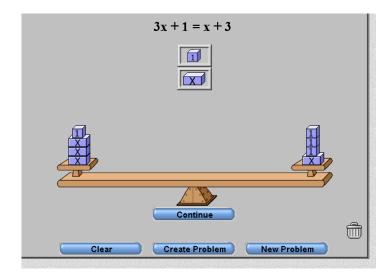


Geoboard – Use geoboards to illustrate area, perimeter, and rational number concepts.

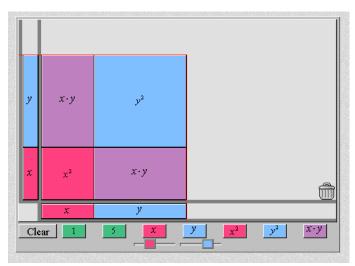


 ${\bf Geoboard}$ - ${\bf Circular}$ – Use circular geoboards to illustrate angles and degrees.

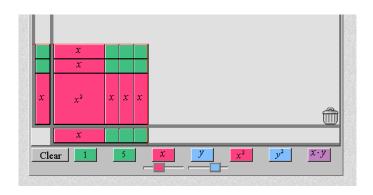
حل المعادلات



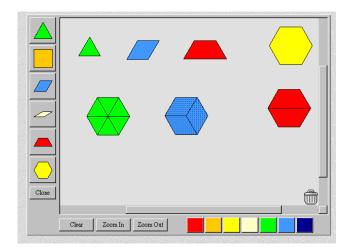
مربع مجموع حدين



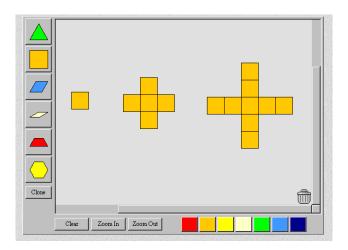
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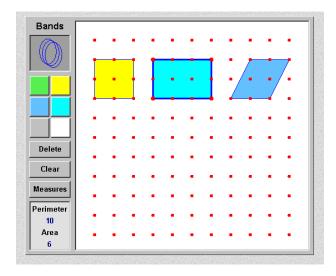
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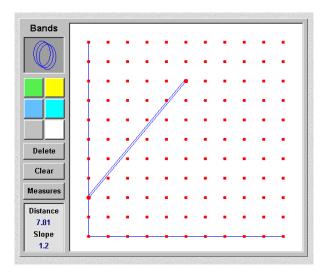
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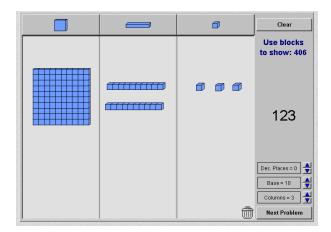
المساحة والمحيط



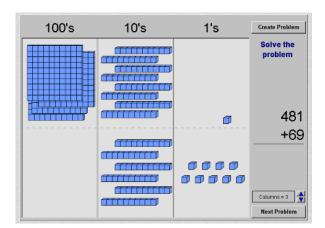
ميل المستقيم



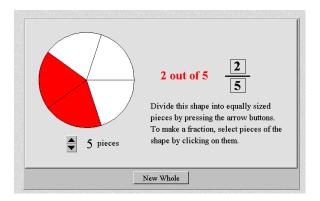
تمثيل العدد



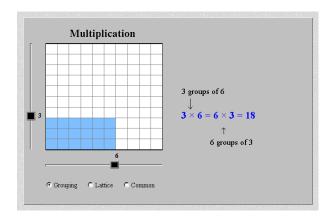
الجمع



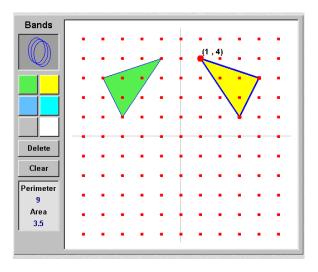
الكسور



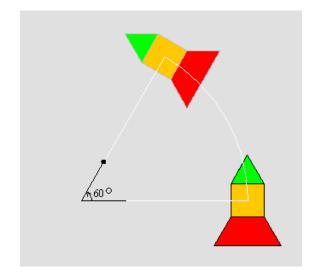
تمثيل عملية الضرب



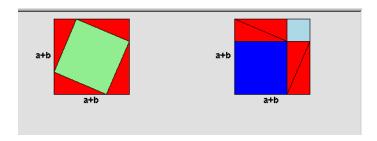
احداثيات نقطة والتناظر



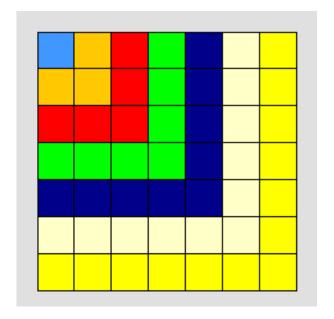
الدوران



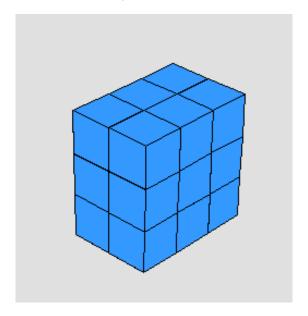
نظرية فيثاغورث



مجموع الأعداد الفردية



الحجوم



المكتبة الإلكترونية لتعلم الرياضيات مدينة الملك عبد العزيز للعلوم والتقنية



-البرمجيات حليفة المحلم واليست حليفة

تعريف بالمكتبة الإلكترونية لتعليم الرياضيات نبعث فكرة مشروع "استخدام الشبكة العظمية لتعليم الدياضيات الكورونية" إصافًا من مجموعة من الإكاديمييين بالعمية التعليم الإلكتروني في تعليم العليمية المسلمية ورخية في إتاحة الفوصة الطالبة والمعامين في المملكة لمواكنة التعلوم المعطّرد في الدوات التعليم والإستقادة مما هو مكاح عالماً

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	الصقحة الرنيسية
į.	اليرمجيات التفاعلية
	وباصبات وباص الأطفال
	رياضيات الصفوف المبكرة
	رياضيات الصفوف العليا
	رياضيات المرحلة المتوسطة
	الرسم الهندسي
	ألعاب تعليمية





البرمجيات حايفة المحلم واليست خليفة

البرمجيات الأساسية			
ينز100 شرح	1 القطع الهندسية شرح 10		
شرانح الكسور شرح	2 قطع النماذج شرح 11		
اللوحة الهندسية المربعة شرح	3 معمل الجبر شرح 12		
قطع الكسور شير	4 اللوحة الهندسية الدانرية شرح 13		
الميزان الحسابي يقيم سالية	<u> الجزر الخمسة</u> <u>شرح</u> 14		







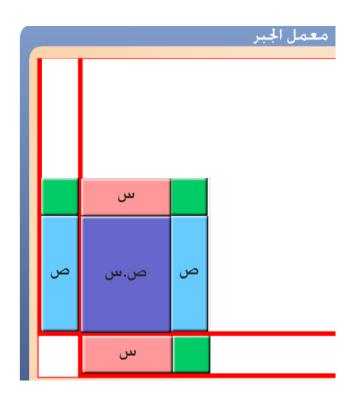
البرمجيات حليفة المعلم وليست خليفة

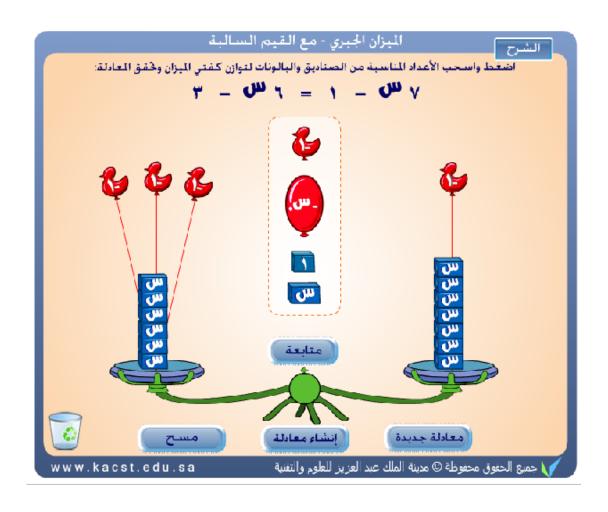
رياض الأطقال شرح المسلسل الألوان شرح مقهوم للعد شرح 2 مقهوم للعد شرح 3 الأعداد حتى خمسة شرح 4 الأعداد حتى المطرة شرح 5 الأعداد حتى عشرين شرح 5

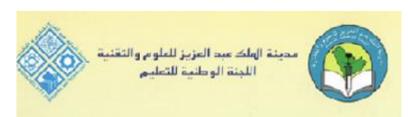












ملخص التترير النهائي

مشروع تطيم الرياضيات للمرهلتين الابتدائية والمتوسطة للبنين والبنات في الملكة العربية السعودية

الباحث الرئيس الأستاذ الدكتور / سالم بن أحمد سحاب جامعة الملك عبد العزيز

الباعثون الشركون

جاوعة الملك عبد العزيز جسابعة أم النسرى جسابعة أم النسرى

الأستان الدكتور / عبد الله بن حبود الحربي الدكستور / عبسد السرز ان بين أحبد قضر الدكستور / عبساس بين حسن قنسدور: