



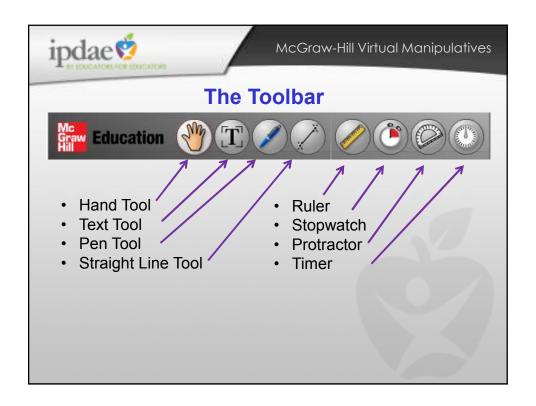
Objectives

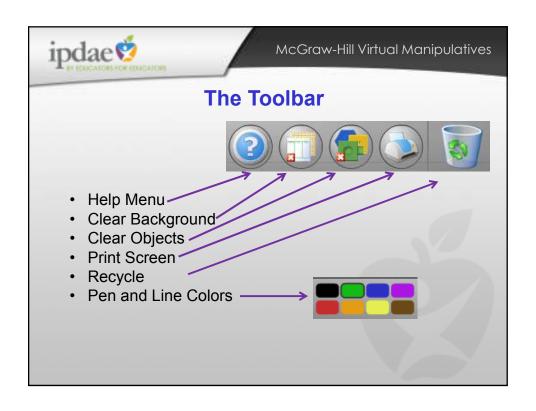
Objectives

To improve overall adult student achievement by:

- Explore ways to plan, teach and assess multiple math concepts and skills outlined in the College and Career Readiness Standards for ABE Mathematics using virtual manipulatives.
- Identify the Standards of Mathematical Practice when employing instructional strategies that involve the use of manipulatives.
- Exploring readily available resources on the use of virtual manipulatives from the IPDAE Website.







Ideas and Demonstrations



Object Demonstrations

- Spinners Probability and Odds
- Fraction Tiles Operations on fractions, equivalent fractions, reducing and ordering fractions
- Number Line Operations on fractions and integers, the number system



Ideas and Demonstrations

Work Mats and Toolbar Demonstrations

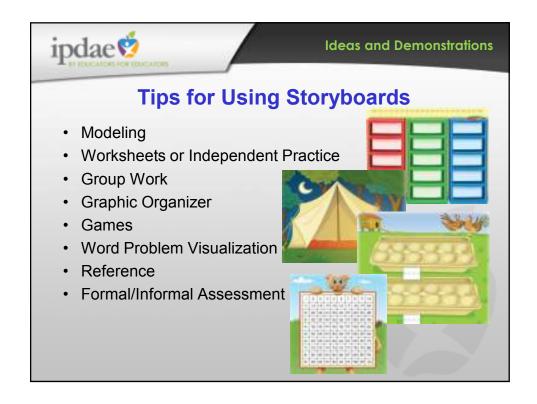
- Algebra Mat Solving polynomial equations and inequalities
- Coordinate Grid Scatter plots and lines of best fit
- In-and-Out Table Patterns, Functions and Equations
- Number Lines Operations on fractions and integers, the number system
- Place Values
- Rows of 6 Equivalent ratios and proportions (Tape Diagrams)





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Ideas and Demonstrations



Using the Platform in Complex Problem Solving

- · Linear Modeling Grid Backgrounds
- Area, Volume, Surface Area Problems Story Boards
- Theoretical and Experimental Probability Spinners
- Modeling Number System Problems



Ideas and Demonstrations

Other Virtual Manipulatives Web and Mobile Apps

- NLVM National Library of Virtual Manipulatives http://nlvm.usu.edu/en/nav/vlibrary.html
- App Store Virtual Manipulatives
 https://itunes.apple.com/us/app/virtual-manipulatives!/id471341079?mt=8
- Math Playground
 http://www.mathplayground.com/math_manipula
 tives.html



