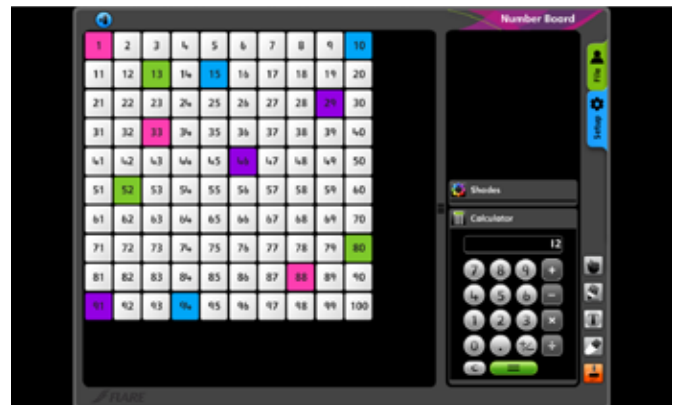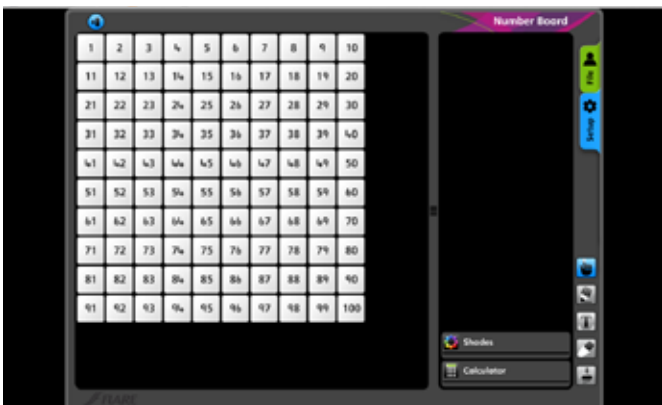# FLARE™

More about the Flare collection

Flare Number Board

Transforms the standard hundred board into a flexible tool for use with two-digit and three-digit whole numbers, and decimal fractions. Use to develop number sense and explore number concepts and relationships. Designed for teachers of Grades K to 6.

- Explore number patterns through counting in steps and multiples
- Explore computation methods for addition and subtraction
- Investigate prime numbers

Special features

- Display 2–12 rows, 1–12 columns
- Show two-digit and three-digit whole numbers, and decimal fractions
- Flip tiles to hide the numbers
- Shade tiles to highlight number patterns
- Start numbers at the top left or bottom left of the board

Flare Number Track

Ideal model for developing early number concepts and operations with one-digit to three-digit whole numbers. Designed for teachers of Grades Pre-K to 6.

- Explore fundamental concepts such as relative position, sequencing and the commutative property of addition
- Investigate addition and subtraction strategies
- Explore combinations of numbers that make a given total
- Explore number patterns through counting in steps and multiples

Special features

- Display number tracks 1–100 tiles long
- Show whole numbers up to 500
- Flip tiles to hide the numbers
- Shade tiles to highlight number patterns
- Easily draw arrows to show 'steps' and 'jumps'
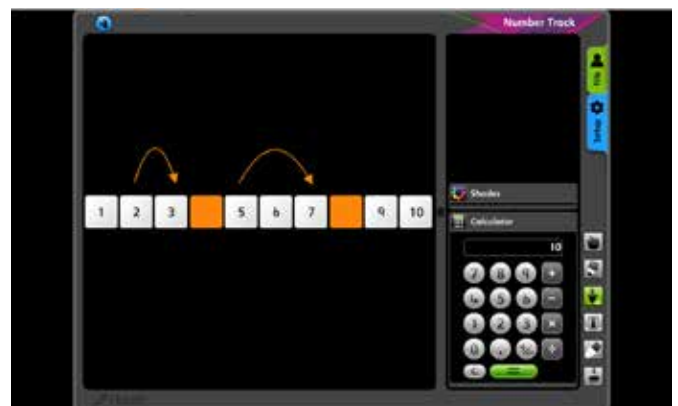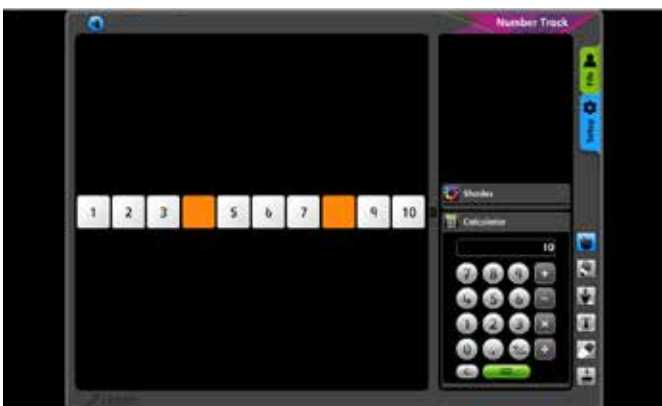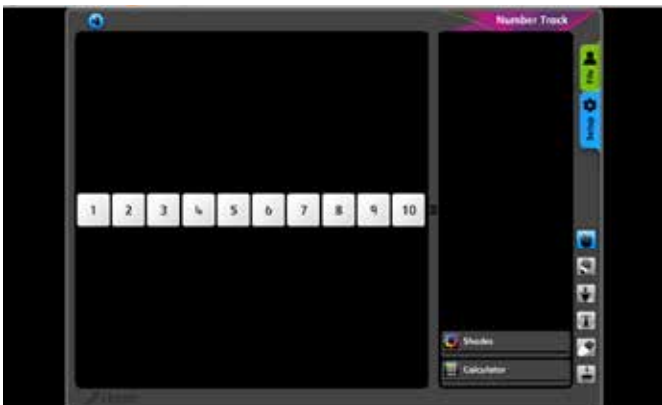
Flare Number Line

Creating and using number lines is now faster and easier than ever before. Use to explore concepts and operations with a wide range of positive and negative numbers, from hundred-thousandths to millions. Designed for teachers of Grades 1 to 6.

- Work with relative position of numbers
- Explore computation methods for addition and subtraction
- Explore the connection between addition and subtraction
- Explore the linear models of multiplication and division

Special features

- Show decimal fractions (from hundred-thousandths) and whole numbers (to millions)
- Display empty number lines, or select an interval distance and interval-number distance
- Display up to 3 number lines together
- Easily draw arrows to show 'steps' and 'jumps'
- Choose how numbers ten thousand and greater are displayed (e.g. 10 000 or 10,000)
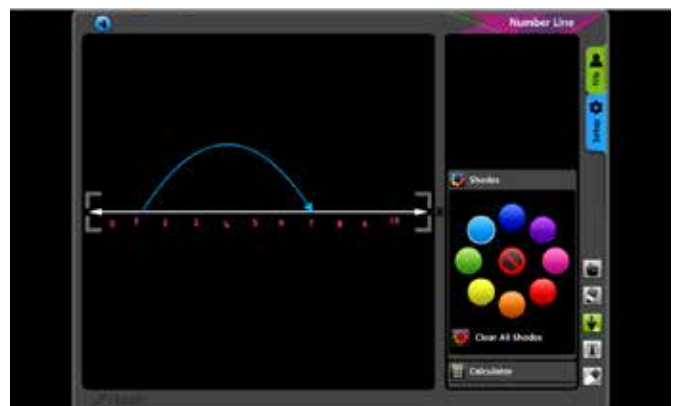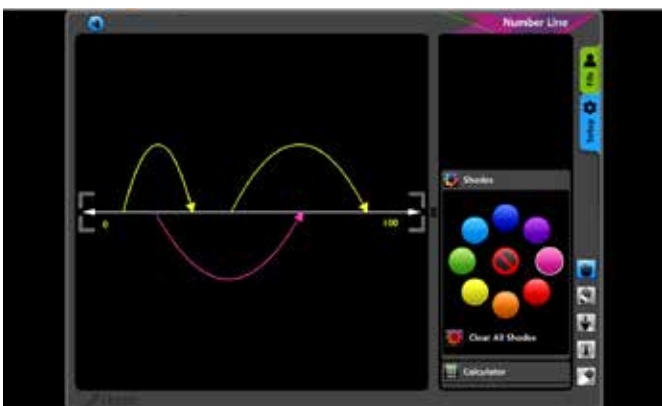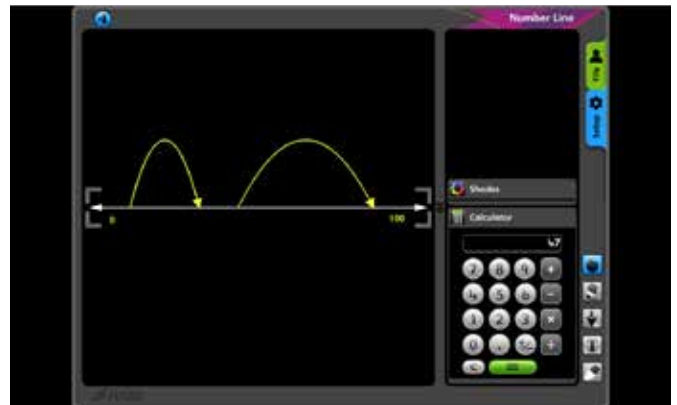
Flare Dominoes

Develops number concepts and sight recognition of numbers, and reinforces fundamental addition and subtraction strategies. Designed for teachers of Grades Pre-K to 3.

- Explore the count-on, use-doubles and bridge-to-ten addition strategies
- Explore combinations of numbers that make a given total
- Identify and sequence numbers up to 18

Special features

- Randomly generate and display combinations of dot dominoes up to double-nine
- Custom-make and display your own dot dominoes
- Change the size of the dominoes (small or large)
- Easily move and rotate dominoes to use them like standard domino tiles
- Shade dominoes to highlight patterns
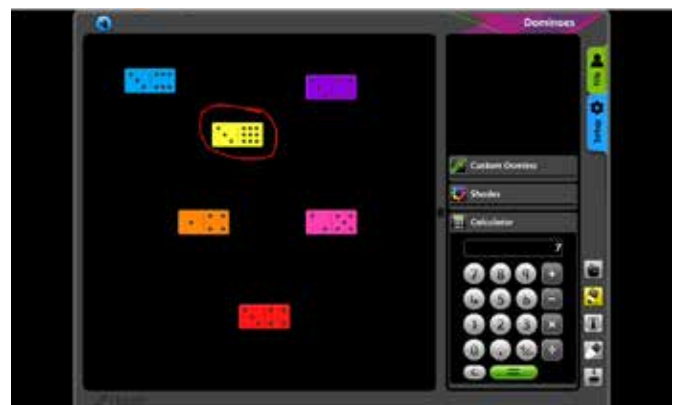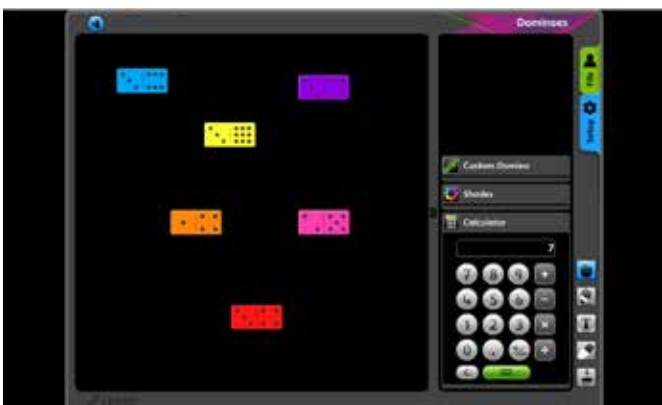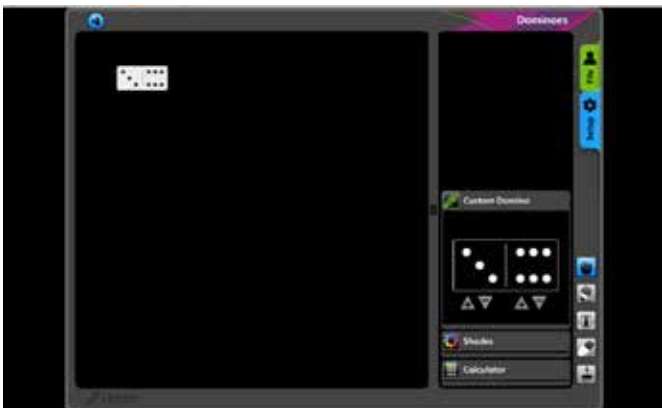
Flare Pattern Maker

Develops algebraic thinking. Use to identify rules and stimulate discussion of relationships for growing and repeating patterns. Designed for teachers of Grades Pre-K to 5.

- Create, extend and translate patterns
- Work with patterns that have two attributes
- Explore figurate numbers such as square numbers

Special features

- Quickly display ready-made repeating and growing patterns
- Custom-make your own repeating and growing patterns
- Create different repeating and growing patterns by reflecting and rotating ready-made pattern templates
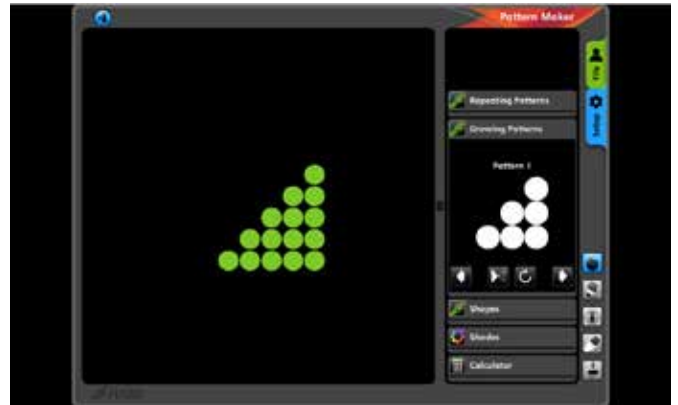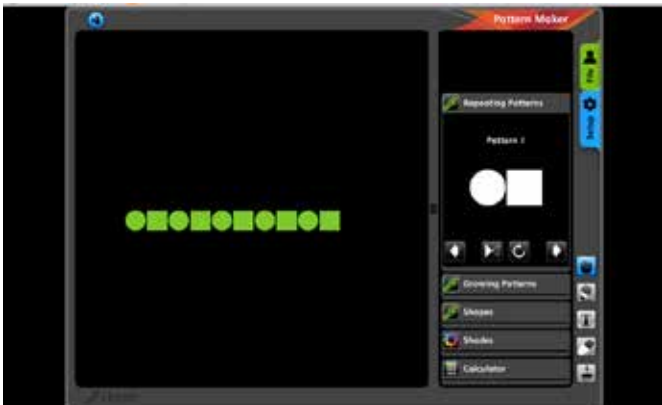
Flare Clocks

Teaching analogue and digital time is now easier than ever before. Designed for teachers of Grades Pre-K to 6.

- Explore 12-hour time and 24-hour time
- Explore fractions of a second
- Work with a.m. and p.m. times
- Reinforce the relationship between analogue and digital displays
- Work with fractions of an hour and elapsed time

Special features

- Display an analogue and/or a digital clock
- Easily change how time is displayed on the clocks (e.g. a.m./p.m., 12-hour or 24-hour)
- Show or hide hours, minutes, seconds, and tenths and hundredths of seconds* (*digital clock only)
- Link the clocks so that a change made to the time shown on one produces the same change on the other
- Set the clocks to operate in real time, with the ability to pause
- Print out reproducible blackline masters of analogue and digital clocks for class activities
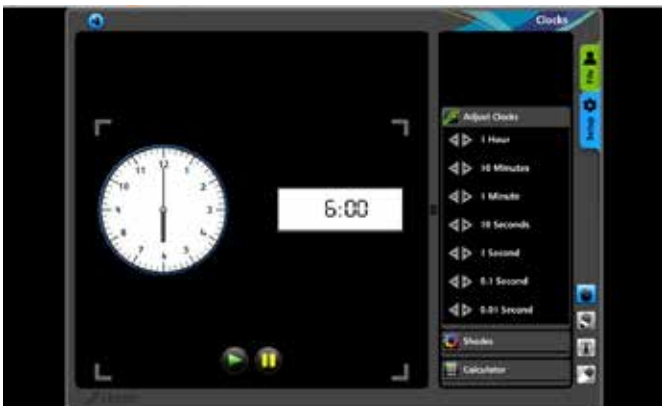
Flare Spinner

Dynamic, whole-class approach to exploring probability. Create a spinner to generate random results in different formats. An exciting tool for developing the language of chance and associating fractions with probability values. Designed for teachers of Grades K to 6.

- Explore key concepts such as sample space and outcome
- Describe likelihood in relative and absolute terms
- Explore the relationship between predictions and actual results

Special features

- Display spinners with up to 100 sectors
- Display spinners with up to 8 different colours
- Display spinners with or without sector lines
- Set the spinner to spin 1–1000 times, with the ability to pause
- Show a tally chart and/or a bar graph, and easily record outcomes in them
- Set the tool to automatically record outcomes in a tally chart and/or bar graph
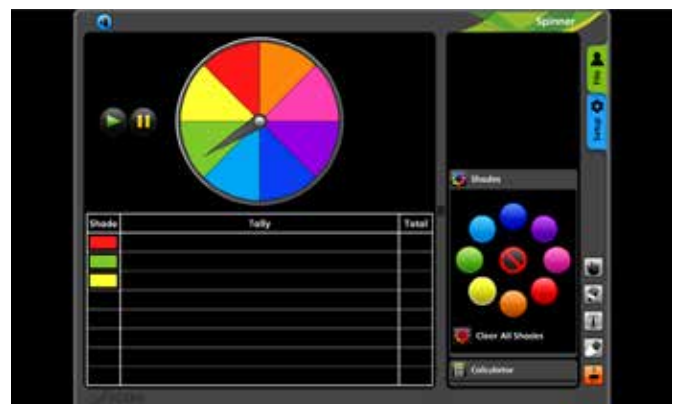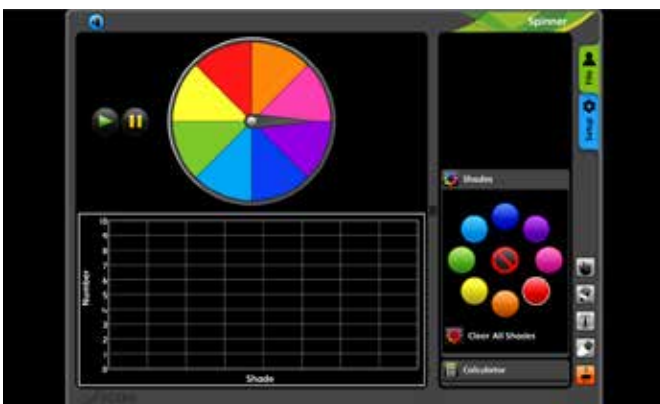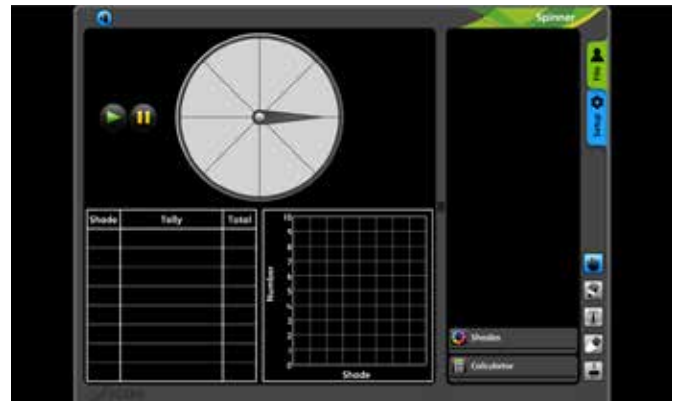
Flare Tangram

Brings a classic puzzle to life. Use to develop properties of two-dimensional shapes and strengthen visual thinking skills. Designed for teachers of Grades Pre-K to 6.

- Investigate area and fractions
- Investigate compound, convex and concave shapes
- Calculate angle sizes using reasoning
- Explore reflective symmetry

Special features

- Easily break apart the tangram puzzle pieces and randomly display them
- Display the tangram pieces in up to 8 different colours
- Display ready-made tangram puzzles for students to solve
- Print out reproducible blackline masters of the tangram pieces and the tangram puzzles for class activities
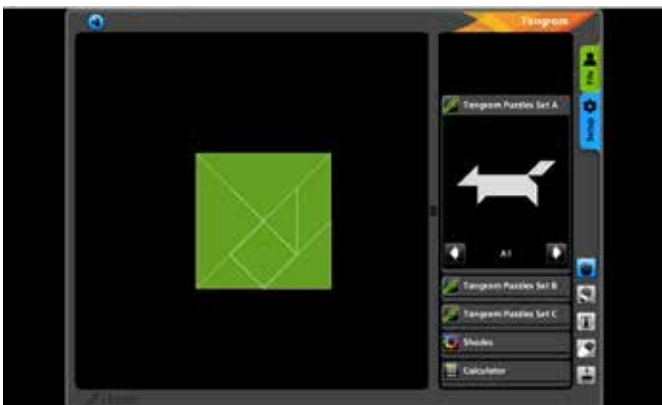
Flare Pan Balance

The pan balance is a powerful pictorial model for developing the algebraic idea of equivalence. This model helps students see equations as balance situations where they remain true if consistent change occurs to each side. When students use common conventions with this balance strategy they can also find unknown values within equations. Designed for teachers of Grades 1 to 6.

- Explore equivalence through a realistic pan balance model
- Use different objects and weights to explore equivalence

Special features

- Functioning pan balance that reacts according to values given to different shapes placed on either side
- A range of shape and number weights to which different values can be given
- Use multiple pan balances to create multi-step problem solving tasks
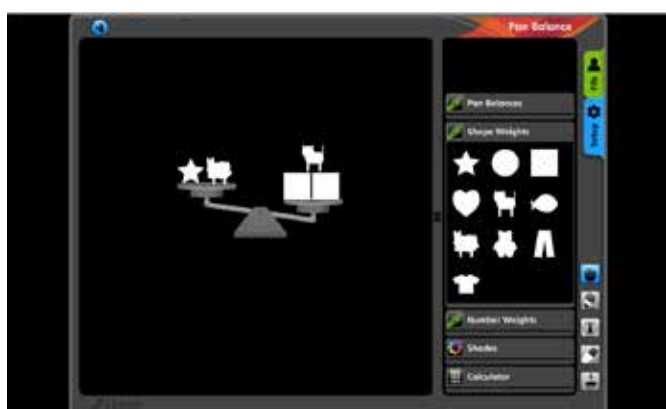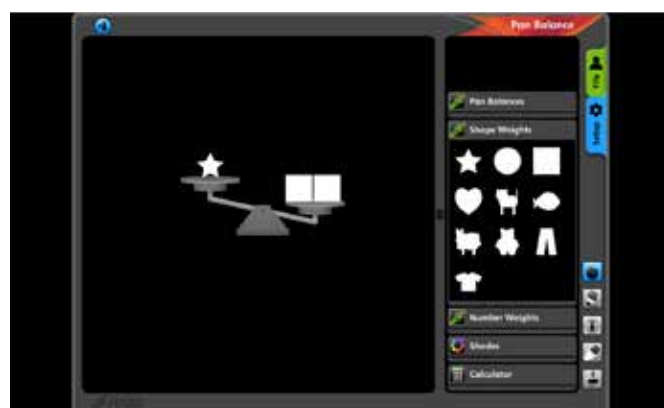
Flare Place Value

Visual models like base-10 blocks have traditionally been used to introduce place value concepts. This tool shows ones, tens, hundreds and thousands and assists students in developing a mental picture for tenths, hundredths and even thousandths. An understanding of place value is further strengthened with the use of place value charts and number expanders. Designed for teachers of Grades 1 to 6.

- Explore place value from thousands to thousandths
- Explore relationships between places
- Investigate place value with pictorial and symbolic models

Special features

- Display numbers using pictures of base-10 blocks from thousands to thousandths
- Position block number models in a place-value chart
- Automatic regrouping of blocks across places
- Show numbers on number expanders from thousands to thousandths
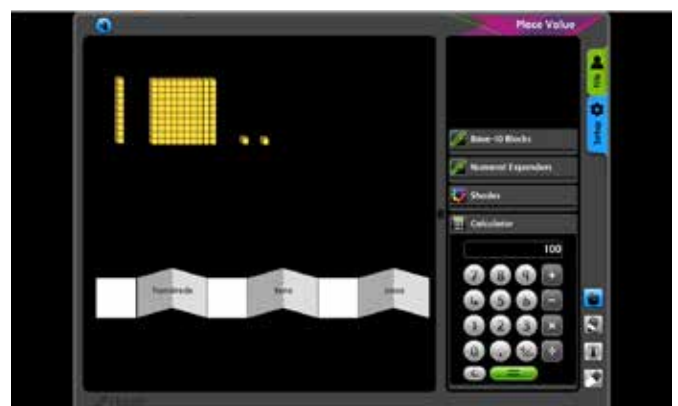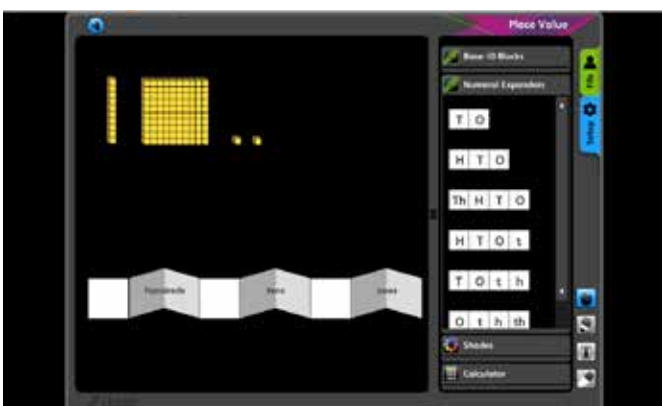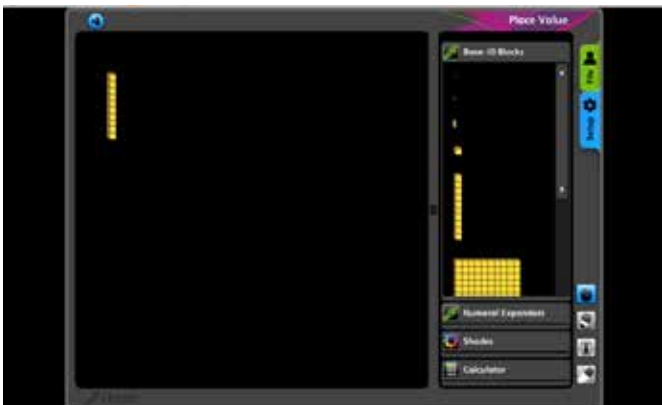
Flare Fractions (Area)

One useful way to show that fractions are equal parts of a whole amount is to use an area model where 2D shapes are divided into equal parts. Multiple shapes can be shown at the same time, making this a very versatile teaching aid, particularly for demonstrating amounts greater than one whole and equivalent fractions. Designed for teachers of Grades 1 to 6.

*   Show fractions as part of a whole through the area model
*   Easily demonstrate equivalent fractions

Special features

*   Multiple shapes to choose from
*   Split shapes into different amounts from halves up to tenths
*   Display more than one identical shape to model improper fractions and mixed numerals
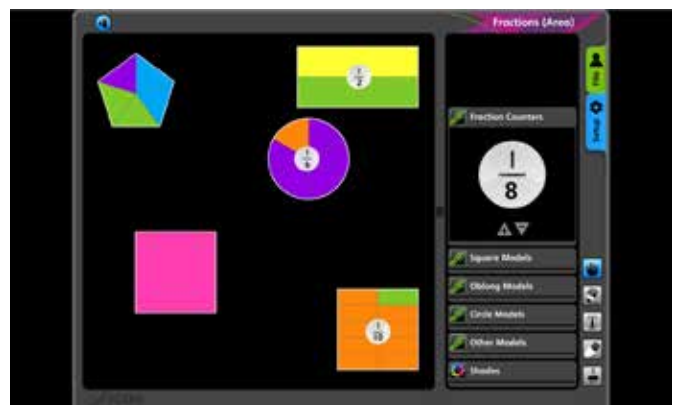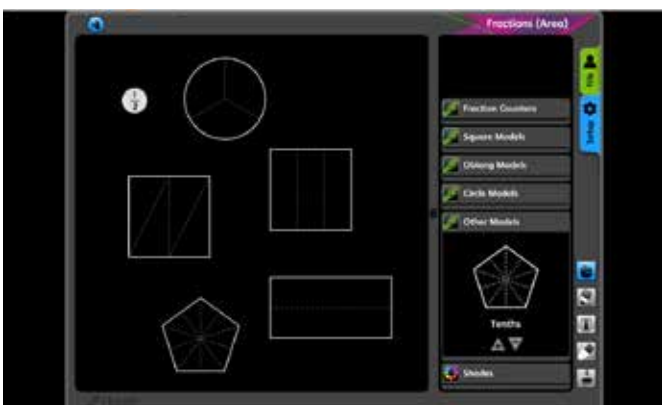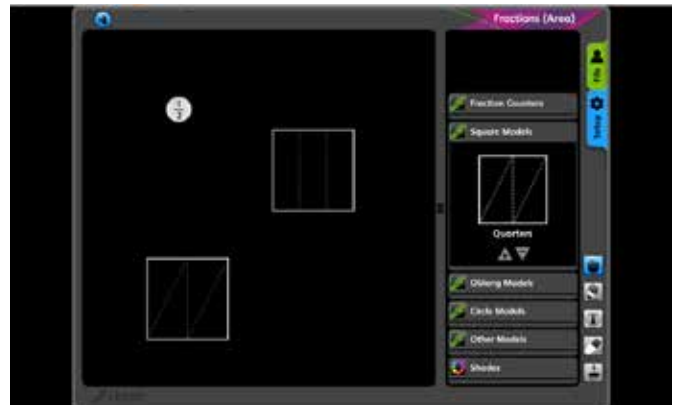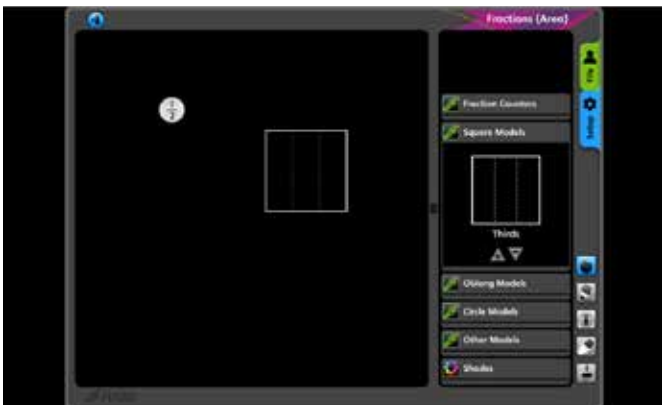
Flare Fractions (Length)

Creating and using number lines is now faster and easier than ever before. Use this version to explore fractions. A length model of fractions makes it easy to develop understanding of equivalence and the addition and subtraction of fractions. Designed for teachers of Grades 2 to 6.

- Explore decimal, common and improper fractions using a length model of number
- Ideal for counting fractions beyond one whole
- Investigate equivalent fractions

Special features

- Show common fractions, decimal fractions or whole numbers on the number line
- Display empty number lines, or select from a range of ready-made lines
- Adjustable fraction walls to show a variety of fractions that go beyond one whole
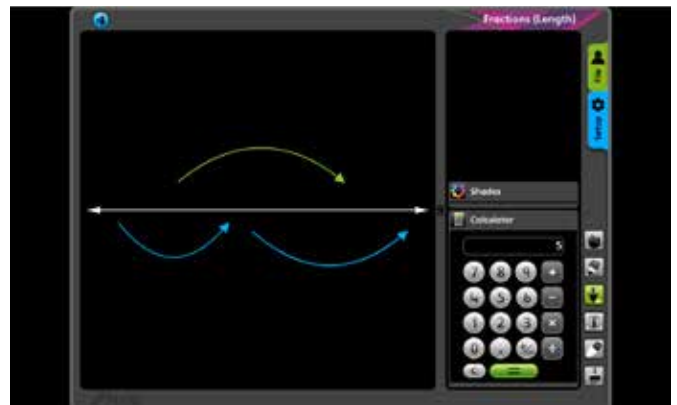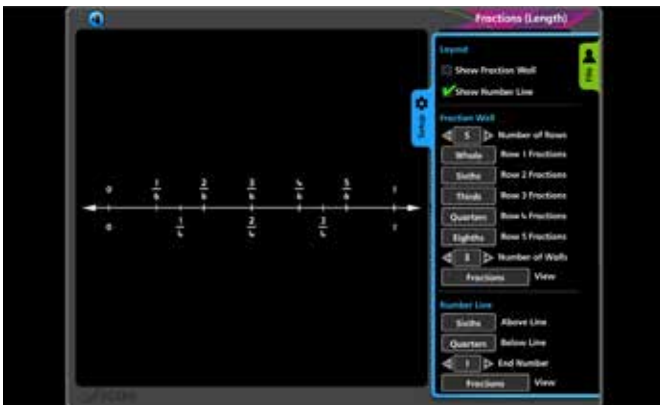
Flare Money

The Flare money tool is ideal for introducing students to the bills (notes) and coins of your currency. Double click the images to reveal the reverse side. Write an amount on a wallet and students can show different combinations to match that amount. The students can then calculate and show the amount left over after the transactinon, or amount needed to be saved before making the transaction.
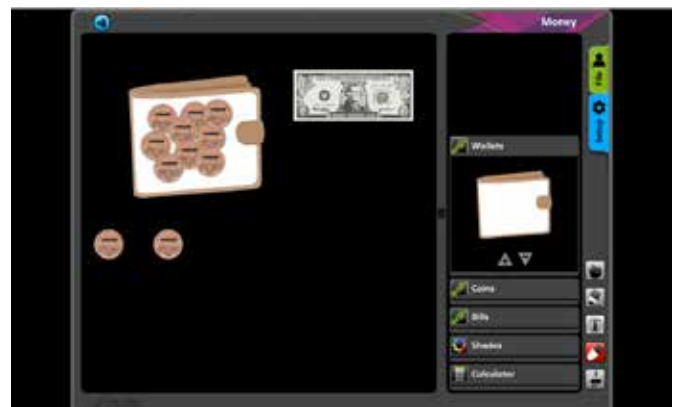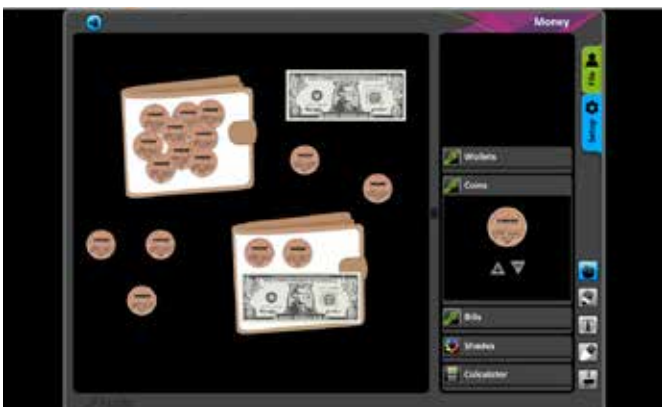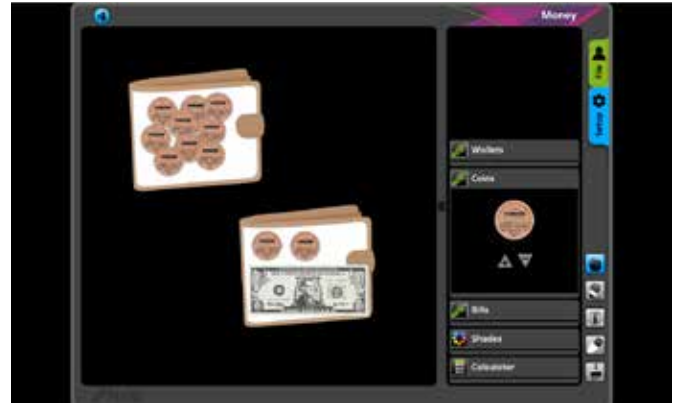
Flare Mats and Manipulatives

This Flare tool provides all your digital mat and manipulative needs in one location. Number mats are provided to show off and even arrangements from 1 to 12. Use the multiply and divide mats to act out multiplication and division stories involving 2, 3, 4 and 5.

Ten-frames can be used with counters to show combinations that make ten or missing addend (unknown addend) subtraction problems where ten is the total. Use double ten-frames to teach the concept of addition with two groups that are ten or less, or to model the bridge-to-ten (make-ten) basic addition fact strategy. Five-frames are ideal for teaching young students that the numbers 6, 7, 8 and 9 are comprised of 5 and some more.

Choose from a range of manipulatives (counters, bears etc) and select from the colour palete to change their appearance to aid understanding.