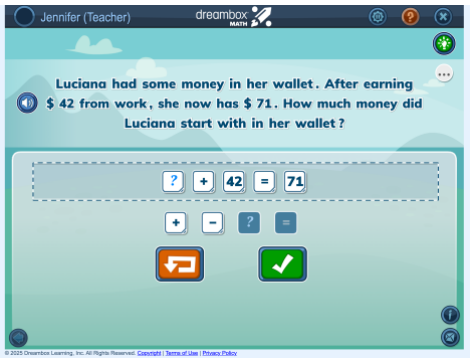
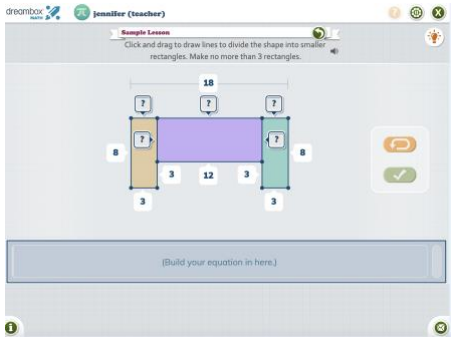
dreambox MATH By Discovery Education **For Texas Schools**

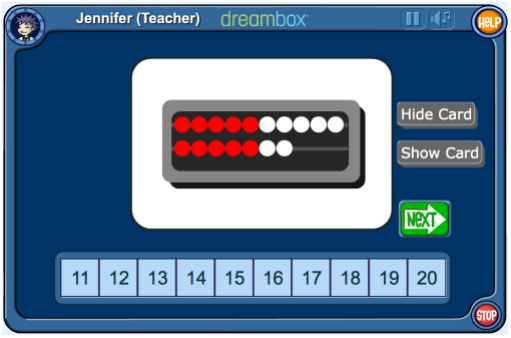
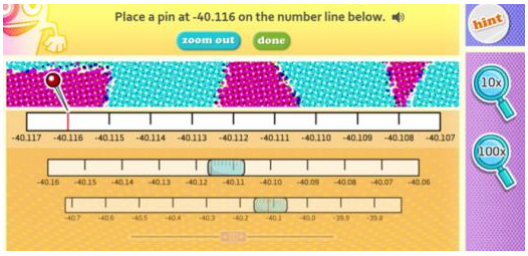
TEKS Correlation Guide

Mathematical Process Standards

The table below annotates examples of how DreamBox Math lessons and virtual manipulatives engage students in the TEKS Mathematical Process Standards.

TEKS Process Standard	DreamBox Lesson Image & Description
Apply mathematics to problems arising in everyday life, society, and the workplace.	 Students drag numbers and tiles to create a number setntence to help them solve real-world problems.
Use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution.	 Students break a shape into rectangles, then further strategize how to find the area of the shape using known information. They build equations to represent the area, then solve the equation to show the area of the composite shape.

TEKS Process Standard	DreamBox Lesson Image & Description
Select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems.	 Students use DreamBox tools to explore and deepen their understanding of concepts. They use arrays to represent strategic partial products when multiplying two-digit numbers. They are limited in the number of partial products they can create.
Communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate.	 Students reason through several measurement tasks, and communicate their reasoning and track the collection's measurements using a histogram.
Create and use representations to organize, record, and communicate mathematical ideas.	 While learning about fractions, students add tree markers at various intervals along a number line, thus creating a model to show sequences of fractions and identify relationships with denominators.

TEKS Process Standard	DreamBox Lesson Image & Description
Analyze mathematical relationships to connect and communicate mathematical ideas.	 Because DreamBox is individualized and doesn't begin each lesson by telling students how to solve the problems, each student must independently look for the structure and use it on their own. Our MathRack Quick Images lessons ensure students look for the ten structure in the manipulative and use it to subitize larger quantities.
Display, explain, and justify mathematical ideas and arguments using precise mathematical language in written or oral communication.	 Given a number line, students must precisely magnify the number line to locate a specific point. Though DreamBox does not require written communication, facilitating precision in ways like this are terrific opportunities for teachers to capture oral or written arguments.