ST Math Classroom Connections **Connect to the Classroom**

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Grade level:	Objective:	Game:	
Standards:			-
Textbook Correla	tion Chapter:	Lesson:	
Play the game a	and analyze to uncov	ver the math.	
Visualization:			
Math Concept(	e).		
CREATE			
Create a plan tha	t includes questioning	for higher-order thinking and addresses how the game wi	Il be utilized.
How will it be tr	anslated to a hands-	-on activity? How might the problems/activities be	sequenced?
Facilitating Que	estions:		
How will studer	nts transition to the s symbols?	symbolic? How will students connect the visualization	ons to
	, j		
	JE AND EVALUAT	IE	

As active participants, students engage with the content of the lesson and display habits of mind of productive learners of mathematics.

## **Facilitating Students**

Monitor

Good facilitation allows students to take a conscious role in their learning process, and they can more easily apply what is learned in ST Math to settings outside the program. Monitor students while they are working. Periodically ask students to tell you how they are "winning" the games. Ask questions that will give you a window into their thinking. Make notes of their understandings and misconceptions. Use these notes to connect ST Math to your classroom instruction. It is recommended that only trained adults facilitate students.



Occasionally, you might want to put a group of 2-4 students who are struggling with the same game together around one computer. Log in to your JiJi Console to access games and facilitate the students as a group. Encourage interaction among the students as they discuss the hows and whys of that game. When students feel more confident and competent, send them back to their own devices to try the games on their own.

# STMath. Classroom Friendly Games

Here are some additional games that work well in the classroom. Try them out!

### Kindergarten: More Less Parachute



Select a set of stacked objects that will be greater than, less than, or equal to a given set of stacked objects.

Test Drive > Kindergarten > Greater Than, Less Than, Equal to > More Less Parachute

#### First Grade: **Pie Monster**



Use the model to solve addition problems. Includes missing addend.

Test Drive > 1st Grade > Addition and Subtraction Situations with Unknowns > Addition and Subtraction Relationships > Pie Monster

### Second Grade: How Many More?



Describe the difference between two whole numbers using models as well as the words less, greater, and equal.

Test Drive > 2nd Grade > Addition and Subtraction Situations > How Many More?

### Third Grade: Fruit Monster



Students explore the relationship between inputs and outputs using ratios within a visual model.

Test Drive > 3rd Grade > Multiplication and Division Situations > Fruit Monster

VA: Test Drive > 3rd Grade > Optional Objectives > Multiplication and Division Situations > Fruit Monster

### Fourth Grade: Scale Fraction



Plot the combined length of a collection of rectangles on the number line.

Test Drive > 4th Grade > Mixed Numbers > Mixed Numbers on the Number Line > Scale Fraction

### Fifth Grade: Multiplying with Parentheses



Learn the meaning of and how to simplify expressions involving variables and parentheses.

Test Drive > 5th Grade > Using Parentheses > Multiplying with Parentheses Sixth Grade and Sixth Grade MSS: **Seed Worm** 



Select the number of increments, the length of the increment, or the total distance, when given the other two.

Test Drive > 6th Grade > Applying Rates and Ratios > Seed Worm

Test Drive > 6th Grade MSS > Applying Rates and Ratios > Seed Worm

### Seventh Grade MSS: Ratio Monster



Select a number of monster arms and mouths according the given ratio. In the last level, chose a ratio first and then select the parts.

Test Drive > 7th Grade MSS > Proportional Reasoning > Ratio Monster

### Eighth Grade MSS: Rolling Equation



Use a number line model to solve one-variable addition equations, including equations with multiple instances of the variable.

Test Drive > 8th Grade MSS > Solving Linear Equations > Solving Linear Equations > Rolling Equation

### High School: Monster Graph



Given a rate, plot equivalent rates on a graph.

Test Drive > High School Intervention > Unit Rates, Tables, and Graphs > Tables and Graphs > Monster Graphs