Beanbag Toss



Learning Goals

Recommended	• K-1
Grades	
Possible Math	Tally representation
Tools	Addition
Possible	• K – 1 students will
Objectives	 Quantify real-world values
	 List values in a table
	 Draw conclusions by comparing values
Real-World	Students divide into groups, and each group designs a beanbag toss game. The game
Context	must be fair enough to attract players, and challenging enough to keep them invested.
	Students use the resources at their disposal to design a carnival game, and use data to
	set an appropriate level of challenge by changing player accuracy. Students may
	brainstorm one of many different modeling problems:
	 How big should the target be?
	 How far should a player stand from the target?
Vocabulary	Accuracy
	Challenge
	• Score
	Quality
	Values
Cross-Curricular	This lesson could be inspired by a field trip or icebreaking game; for example, students
Connections	might create a carnival stand as a crafts project, and then consider how to improve
	their game.

Relevant Common Core Standards:

K−1:

CCSS.MATH.CONTENT.K.CC.C.7

Compare two numbers between 1 and 10 presented as written numerals.

Task: Determine who had a higher score in the bean bag toss.

CCSS.MATH.CONTENT.K.OA.A.2

Solve addition and subtraction word problems, and add and subtract within 10, e.g., by using objects or drawings to represent the problem.

Task: Sum up the score of a bean bag toss game.

CCSS.MATH.CONTENT.1.MD.A.2

Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same-size length units that span it with no gaps or overlaps. Limit to contexts where the object being measured is spanned by a whole number of length units with no gaps or overlaps.

Task: Measure the distance from thrower to target.

This lesson was developed by Jacob Cordeiro, Jody Britten, Marka Carson, Misael Jimenez and Erika Villegas-Jimenez Grant STEM-C-1441024 Template developed at Last Edited Date: 19 June, 2017





CCSS.MATH.CONTENT.1.MD.C.4

Organize, represent, and interpret data with up to three categories; ask and answer questions about the total number of data points, how many in each category, and how many more or less are in one category than in another.

Task: Compare the accuracy of contestants standing at different distances from the target.





