

DICE GAME

Level	3 (Age group 11 – 14)
Resources	2 dice, graph paper, colors, rulers
Required	
Alternate Options	To make the dice follow the steps below:
for the Resources	1. Draw and cut out the net of a cube by following the template in the
	images section below. Draw 4 squares horizontally and draw one square
	above and below the second horizontal square.
	2. On each square face draw dots representing a unique number from 1-6
	(no number should be repeated). Fold the net so that all the numbers
	are facing outwards
	3. Use glue or any adhesive to stick the edges of the cube together
	4. Repeat so a total of 2 dice are made.
Strand Covered	Shape and Measurements
Targeted Skills	Area of composite shapes
Inspired by	Multiplication.com - Jen Wieber
Time Required	Game time 20 minutes
	Set up time 10 minutes (to make the dice)
Previous Learning	Know how to draw a rectangle
Required	Know addition
	Know multiplication tables up to table 6
Support Required	Low supervision

Rules of the Game:

Goal	Have the highest total area on the graph paper
Rules	Players must throw both dice at the same time.
Steps	Note: This game is designed for 2 players.
	Step 1: Assign both players a different colored pencil with which they will draw on the graph paper. Ask each player to roll one die; whoever gets the highest number gets the first turn.
	Step 2: Ask the first player to roll both dice. The two numbers that the dice land on will become either the length or width of the rectangle he/she will then draw on the graph paper. For example, if the dice land on 4 and 6, the rectangle will measure 4 by 6. It is up to the players if they want 4 as the width and 6 as the length or 4 as the length and 6 as the width.







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Variations of the	Play the game with one die numbered from 1-6 and one dice numbered from
Game	7-12.
	Numbers on the dice can be used as dimensions of different shapes including
	trapeziums and parallelograms
Enrichment	1) Play this game with right triangles
	2) Play this game with trapezoids
	3) Play this game with other regular shapes.
Simplification	Give each player a separate graph paper and specify a fixed amount of moves