3D SHAPES

Level	3 (Age group 11-14)
Resources	20 Matchsticks or twigs per player
Required	Playdough
	Notecard with names of 3D shapes
Alternate Options	Adults can make playdough by mixing the ingredients below in the following
for the Resources	ratios:
	1. 2 cups flour
	2. ¾ cup salt
	3. 2 cups lukewarm water
	4. 2 tablespoons of vegetable oil
	Players can make 6 notecards each with a 3D shape drawn on a piece of paper
	the size of their palm. They can choose any 6 from the following 3D shapes to
	draw:
	1. Cuboid/rectangular prism
	2. Cube
	3. Triangular base pyramid
	4. Square base pyramid
	5. Pentagonal prism
	6. Hexagonal prism
	7. triangular prism
	8. pentagonal prism
Strand Covered	Shape and Measurements
Targeted Skills	Building 3D shapes
inspired by	Childhood 101
Time Required	15 minutes for the game
	15 minutes to make the playdough
Previous Learning	3D shapes properties
Required	
Support Required	Medium support

Rules of the Game:

Goal	The player that completes their cards first and builds their shapes first, wins
Rules	Once a player picks 4 cards, they are not allowed to swap it out
Steps	Step 1: Shuffle all the cards that were made together and place it in the middle of the players, face downStep 2: Give a palm-sized ball of playdough to each player



	Step 3: Each player draws 4 cards each from the pile
	Step 4: The player makes the 4 shapes listed on their cards by using small spheres of playdough as vertices and the matchsticks as edges (see reference image below) Step 5: The first player to make all their shapes wins
	Step 5. The hist player to make an their shapes wins
Images or	Example of a complete 3D square based pyramid:
Illustrations	
	CUEE SHERE HEMISPHIERE CUINDER THIANCULAR HEXACONAL HEXACONAL PESTAMID HEXACONAL HEXACON
Variations of the	Instead of making the shape, the players can draw the shape on paper and list
Game	the features. For example, draw a cube and list 8 vertices and 12 edges
Enrichment	The game can also be played to test angles. For example, using sticks to show right angles, obtuse angles and acute angles.



The players can draw 2-3 cards instead of 4.
The players can group into groups of 2 instead of playing the game individually