Executive Function Skills through Play for Preschoolers

Three Core Domains of Executive Function

- **1.** <u>working memory</u> the amount of information a person can hold in mind and apply to cognitive tasks
- **2.** <u>cognitive flexibility</u> adaptability of the brain to changes, new situations, or unplanned situations
- **3.** <u>inhibition</u> using attention and reasoning to respond appropriately to automatic urges such as attention, behavior, thoughts, and emotions.

Skill building games

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Dimensional Change Card Sorting	 Cards that have two sorting dimensions such as color and shape Sorting by either dimension is performed by the child Eventually, the child learns to switch between dimensions 	purple rectangle black pentagon	
Lips and Ears	 Children are given either a picture of lips which indicates they are speakers or an ear which indicates they are listeners. Children with lips are the only ones who can speak. Children take turns and alternate between lips and ears 		
Block Building	 Small building blocks are placed on the left and right sides of a table in front of the child A model of building blocks is also displayed in front of the child Using their preferred hand, the child recreates the model 		
Musical Freeze	 Music is playing. An instructor selects one of several picture cards showing stickmen in various poses As soon as the music stops, the children are instructed to assume that pose In the event they do the wrong pose, they are out, and the last person to do the pose is out as well As the game progresses, different poses are used until one winner is determined 		
Opposites	 Children are asked to respond to a deck of picture cards by offering the "opposite" of what is depicted on the card. As an example, if the child is shown a picture of "the sun", they should respond "night", and if they are shown a picture of "the moon," they should respond "day." 	THE REAL STATES	

Pretend Play	 As part of this game, two children take on "roles" (e.g., doctor and patient). It is best to encourage them to play unstructured, but some guidance may be necessary at first. Halfway through the play session, the children should switch roles. 	
Red Light Green Light	 In this game, the instructor instructs the children when to move indicated by a green light and when to stop indicated by a red light. Children can also take turns giving instructions. Children who do not follow the cues will be called out. 	
Shared Project	 Using different household materials (such as paper, boxes, and tape), children create a picture or another constructive creation. They are encouraged to negotiate how it will be made. 	
Simon Says	 Children are instructed to follow all actions that begin with "Simon says." For example, if Simon says, "put your hands on your head," the child should put their hands on their head. The children must not perform an action if the adult doesn't say "Simon says". A child who does the action is out. 	



Reference

Gibb, R., Coelho, L., Van Rootselaar, N. A., Halliwell, C., MacKinnon, M., Plomp, I., & Gonzalez, C. L. R. (2021). Promoting executive function skills in preschoolers using a play-based program. *Frontiers in Psychology, 12*(1) Article 720225. https://doi.org/10.3389/fpsyg2021.720225