

STEM: Building Balance Challenge

Learning Value:

This activity promotes development and learning by encouraging children to use reasoning and problem-solving skills, and demonstrate persistence in actions and behaviors.

Materials Needed:

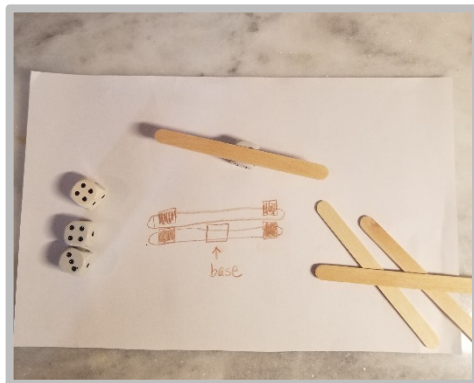
- ▶ Craft sticks (at least 20 sticks)
- ▶ Plastic cups
- ▶ Dice, wooden cubes, or rectangular or square building blocks (Legos®)
- ▶ Paper
- ▶ Writing/drawing utensils

Participants:

This activity is intended for independent play, or 2 or more participants/players

Directions:

Step 1: Share the materials and choose one of the building challenges to complete. Make a plan for your building. Draw your ideas.



Continued below...

Building Challenges:

- ▶ Build a structure with blocks and sticks that uses one block as the base.
- ▶ Build the tallest building you can using cups, blocks and sticks.
- ▶ Build a structure that can balance cups on sticks.
- ▶ Build the place you live or another building in your neighborhood.

Step 2: Build your structure, following your plan. What changes can you make to improve the design?

Step 3: Once the challenge is completed, think about how it can be built again a different way. Try a new approach. How is it different from the first structure?

Step 4: Try each of the Building Challenges. Which was your favorite? Share one of your structures with a family member. Come up with variations to the challenges and try some more!



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Bright Horizons.

World at Home