

SHADOW TOWER STEM CHALLENGE



Challenge

Can you build a tower tall enough to touch the tape on the wall? Wait! There's a catch, your blocks can't move from the tape on the floor! Hint: Use a flashlight.

Materials

- Masking tape
- Blocks (or other stacking objects)
- Flashlight
- Dark Room

Instructions

- Put a piece of masking tape on the wall (you decide the height)
- Take a few steps back and put some tape on the floor, this is where you will build your tower.
- Start building your tower. Remember, your tower cannot move from the tape on the floor. How will you make your tower tall enough to touch the tape on the wall? Hint: use a flashlight to create a shadow and see what happens!
- What happens when you move your flashlight closer to your block tower? What happens when you move your flashlight further away?
- Now use some more tape to mark other spots on the floor, and explore with building towers of different heights and different distances away!