

## Breakfast Cart

The materials I will be using to create my cube will be 12  $12'' \times 2''$  wood composite planks that are 1'' in width and another 26  $14'' \times 2''$  wood composite planks. The reason I use wood composite instead of another material is because wood composite does not absorb water and is not affected by deteriorative effects like other materials. I will also need a door hinge, a <sup>toy car</sup> remote control, ~~some~~ ~~extension chords~~, four wheels, two axles, a power source, <sup>a toaster,</sup> a programming chip, and sensors compatible to the remote control. Also, some power tools are needed to make holes in the wood composite and some hot glue or screws (however, screws are required for the hinge).

The construction will start off with the wood composite. You will need to make two equal squares out of the  $12''$  planks and a hole big enough to fit an extension chord through (only one side). Next get the  $14''$  planks and make two squares with them, more holes can be made, but it is not necessary. Now, before you attach these squares you will need two more rectangles with the  $14''$  planks, both  $14''$  by  $12''$  rectangles. Next, get one of those rectangles and a  $12'' \times 12''$  square and attach them with the door hinge so that the edge of the square is attached and end of a plane of the rectangle is attached, but the pivot