

## *How to Make an Equipment Cart: Lesson Plan*



A wonderful way to store and transport playground equipment is to have an equipment cart that carries all of the hula hoops, jump ropes, poly spots, and cones needed for recess. An equipment cart is easy to customize for the exact amount of equipment you have, and the exact amount of space you have to store your equipment.

### ***Materials:***

- PVC pipe (around 1 inch in diameter usually works best)
- PVC pipe joints (that fit the diameter of the PVC pipe that you choose, as well as the design)
- Caster wheels with threaded stem (4)
- PVC caps (4) of whatever diameter of PVC pipe you choose
- Nuts (4) and lock washers (4) or lock nuts (4)
- PVC primer or cement
- PVC ratchet cutter
- Clamps



- Sand paper

***Instructions:***

1. Be sure to read all instructions on primer and cement, as well as any other equipment, to ensure the safety and proper use.
2. Create a design for your equipment cart based on the amount and kind of equipment you have, as well as the space you have to store the equipment cart. Make sure to include in your design there must be 4 pieces of PVC pipe on each corner extending at least 5 inches downwards past the frame to allow attachment of wheels.
3. Buy the necessary amount of PVC pipe, and cut to size with a PVC ratchet cutter.
4. Sand the edges of your PVC pipe where you have cut them to ensure a smooth surface for the cement and primer to attach.
5. Lay the pipe out as you have designed and apply the PVC primer or cement in an even layer on the inside of the PVC pipe joints. Follow specific instructions on your cement or primer for curing time, as this time varies from brand to brand.
6. Use clamps to maintain pressure on the joints to ensure proper attachment whilst curing.
7. Once the equipment cart is dry and complete, use the remaining extension of PVC pipe on the bottom to attach wheels. Sand this extension to prepare for attachment.
8. Drill an appropriate size hole in the center of the cap. Fasten the caster with nut and lock washer or lock nut. Repeat this process until all four wheels are attached to the cap. Attach caps to the PVC pipes using PVC cement or primer, and allow to cure in the same manner as all other attachments.
9. Your equipment cart is now ready to be used, and enjoyed!

***Places to Purchase an Equipment Cart:***

1. [Champion Sports Equipment Cart](#)
2. [Champion Sports Portable Ball Storage](#)
3. [Copernicus Physical Education Cart](#)