

CONVENIENT CARRIER



as built on TV.
pbs.org/designsquad



BRAINSTORM & DESIGN

- What kinds of things will my carrier hold?
- What kinds of carriers do I use every day?
- Should my carrier be for crutches or for a wheelchair?
- How will I attach my carrier to the crutches or wheelchair?

BUILD

Ready? Remember, it should be easy to put things into and take things out of. You may also want to design pockets for specific items, like a cell phone or a cup.

TEST & REDESIGN

Hmmm. It's big, so it holds a lot. But it also gets in the way. And it keeps falling off. Time to redesign.

HINT

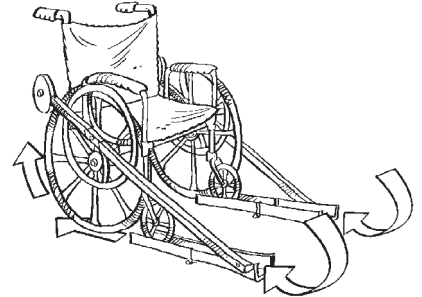
The crutch is a LEVER. By keeping the weight high, people won't have to swing extra weight out at the end of a lever, which is hard work.

Did you do it? Did you design a carrier that will help people using crutches or a wheelchair keep their stuff organized and within reach? Congratulations! Improving people's lives is what invention and engineering are all about.

LEMELSON-MIT

InvenTeams

KIDS INVENT



The Americans with Disabilities Act requires all curbs to have cutouts for wheelchairs; however, many don't. To help, the Ardsley High School InvenTeam invented a device that attaches to a manual wheelchair and enables it to climb a curb. Check out this project and others at web.mit.edu/inventeams.



PBS. Watch DESIGN SQUAD on PBS or online at pbs.org/designsquad.

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