

Adapting the Home and Community

CHAPTER

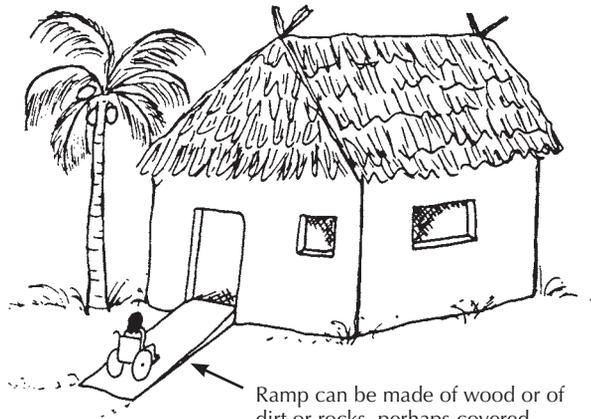
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ADAPTING THE HOME

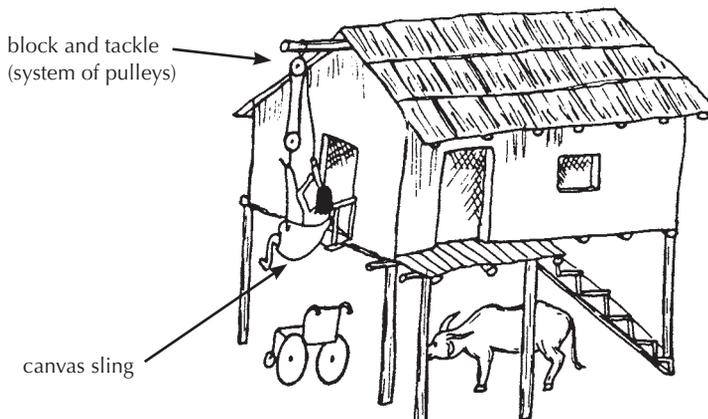
The kind of *adaptations* needed in the home will partly depend on the **kind of disability** a child has, the **severity of the disability** and the **age** and **size** of the child. Adaptations for a child who is blind are very different than those for a child who is *paralyzed* and uses a wheelchair. A child who is completely dependent will need aids and adaptations to help the family care for him and move him—especially as he gets older and heavier. However, the disabled child who can do a lot for herself may be helped by adaptations that make self-care and work in the house easier.

The kinds of adaptations needed will also depend on the **local living situation**, **style of house**, and **customs**. For example:

A simple ramp may work well for a wheelchair entrance to a house near ground level.



Ramp can be made of wood or of dirt or rocks, perhaps covered with a thin layer of cement. For details, see p. 489.



A system of ropes and pulleys may be the best way for a person with strong arms to lift herself without help to a 'house on stilts'.

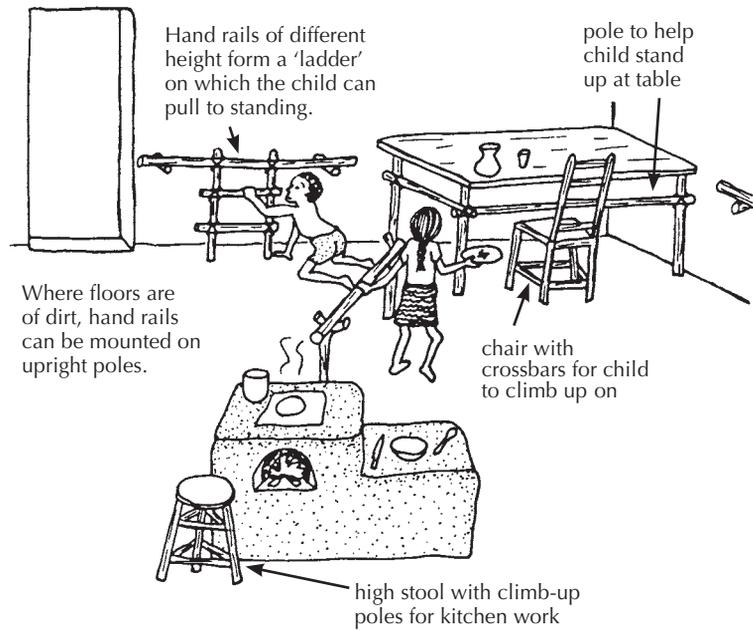
The 'lift' can be made with a platform so that the whole wheelchair can be lifted. But if the house is small and people cook and eat at floor level, it may be best to leave the wheelchair outside.

Adaptations for the child who is learning to walk and balance

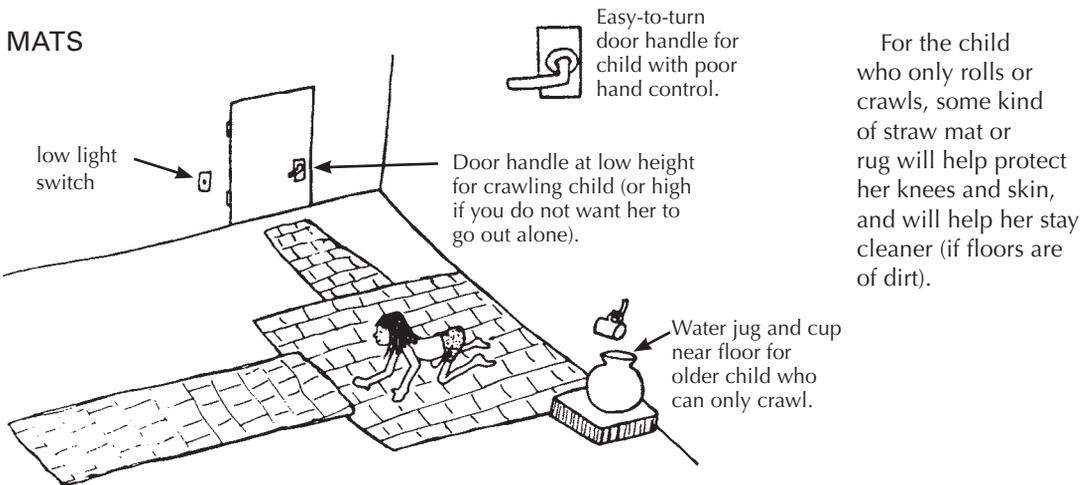
HAND RAILS

These can be fixed to the walls and furniture. If necessary, pathways with rails can be put up so that the child can walk with support almost anywhere in the house, and also outside to the latrine (toilet) or garden (see p. 507).

Before attaching hand rails firmly, test the child with a temporary rail at different heights to find out what works best. As the child grows, you may need to place the rails higher. Or you may want to remove rails little by little to help the child improve her balance and walk more independently.



MATS



For the child who only rolls or crawls, some kind of straw mat or rug will help protect her knees and skin, and will help her stay cleaner (if floors are of dirt).

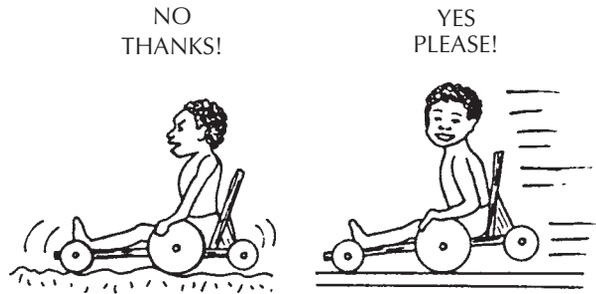
The 'model home' in PROJIMO is a guesthouse. It has features that make it easier to care for a disabled person, or for a disabled person to care for herself and do housework. Visiting families can find out what is useful for their child and can adapt their own home. Here PROJIMO workers split wild cane to make screens to keep out the animals.



Home adaptations for wheelchair riders

FLOORS

For almost any disabled person—but especially those who use wheelboards or scooters with small wheels, the floor should be as **smooth and firm** as possible (but not slick or slippery). Packed, smoothed clay-and-cow-dung surfaces (as used in India) work well. Cement is even better for long-lasting use of a trolley or wheelchair. Although expensive, a smooth cement floor makes getting around a lot easier.

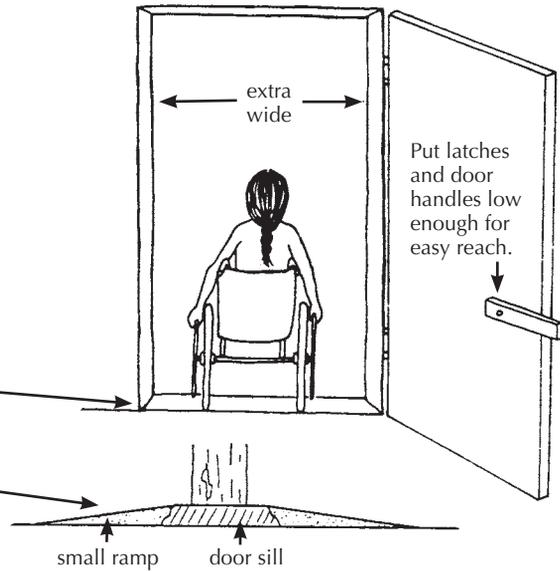


DOORWAYS

Make all **doorways extra wide**. Remember, your child will grow and may need a bigger, wider wheelchair.

In a house that already has very narrow doorways, be sure the wheelchair you buy or make is narrow enough to fit through easily. Most commercial chairs are much wider than necessary, especially for a child.

Try to avoid any rise or bump at the doorway. If it already has a raised sill and you cannot remove it, build a small ramp to go over it. (This will be of special help for children with weak arms and hands).



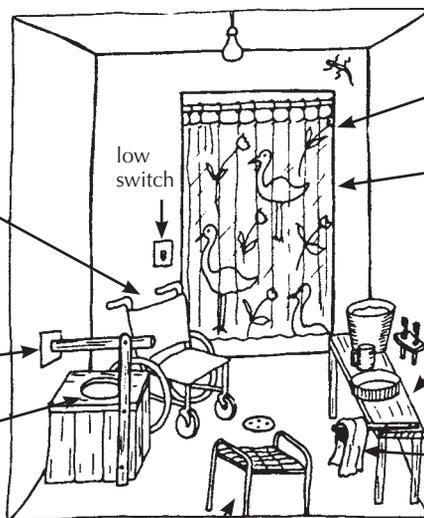
BATHROOM OR OUTHOUSE (LATRINE)

Be sure the room is big enough for a wheelchair to turn around in easily.

A wheelchair without armrests or with a removable armrest is best for transferring to the toilet.

hand rail on far side from wheelchair

toilet seat the same height as seat of wheelchair



wide doorway

For a wheelchair rider, a curtain is often easier to open and close than a door.

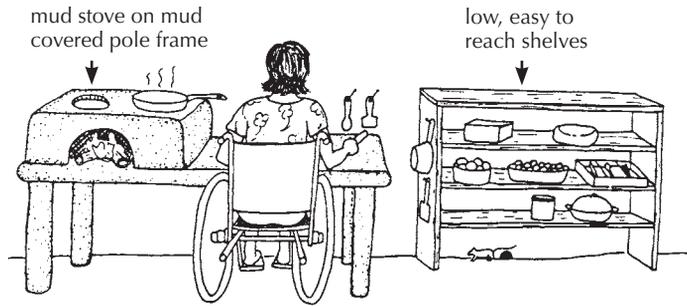
washstand at height just above knees of wheelchair rider

towel on low rack

bathing stool same height as wheelchair, with metal frame and woven plastic or rubber strips of car inner tube

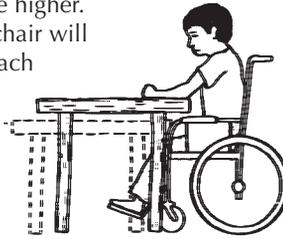
KITCHEN AREA

The stove, work areas, and tables should be as low as possible, but high enough so that the legs of the wheelchair rider can fit under them.



The cooking and eating area in the model home at PROJIMO has a lot of adaptations.

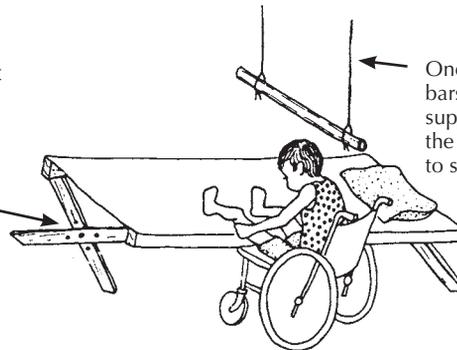
CAUTION: If the wheelchair has high fixed armrests, the tables and oven will have to be higher. Or the wheelchair will have to approach from the side, in which case the table should be lower.



BED OR COT

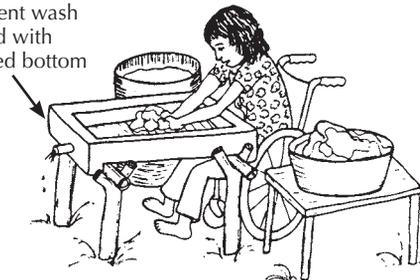
The bed or cot should be the same height as the wheelchair for easier transfer.

Cot height can be adjusted by drilling new holes and changing the position of the bolt.



WASHING AREA (outdoor)

cement wash stand with ridged bottom



Outdoor washing area at PROJIMO—designed for work from a wheelchair.

IMPORTANT: Before building fixed-height stoves, tables, and wash areas, **set up something temporary to figure out what works best.** Remember that the child is growing, so try not to make things too fixed or permanent.

ADAPTING THE COMMUNITY

In many villages, disabled persons have a hard time going places because streets or paths are rough, rocky, or sandy. Also, there may be high steps for getting into stores, the cinema, and even the town meeting hall, school, and health center.

A village rehabilitation program can encourage the villagers to make it easier for disabled persons to go places and to participate in community activities.

For example, ask storekeepers to build ramps so that wheelchairs can enter their stores. Disabled persons and their families can promise to give their business to those who cooperate in this way, and if necessary, can boycott (refuse to buy from) those who do not.

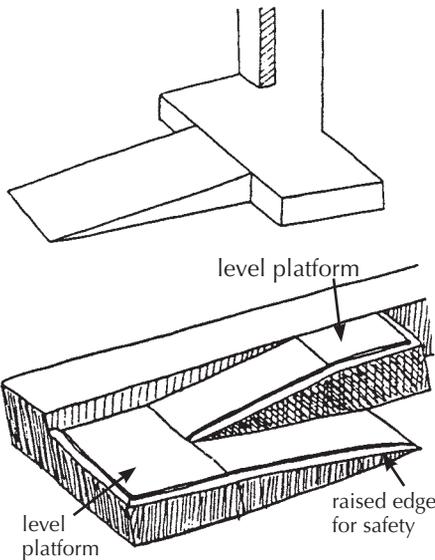


In Ajoya, Mexico, the rehabilitation team convinced store owners to build ramps so that the wheelchair riders could enter the stores. The store owners provided the materials and local masons volunteered the labor.

HOW STEEP YOU MAKE THE RAMP DEPENDS IN PART ON WHO IT IS FOR.

RAMPS

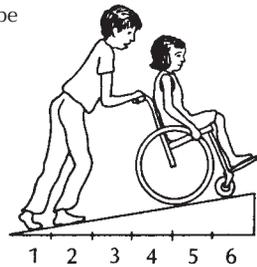
The more gentle the slope of the ramp, the easier it is for a wheelchair rider to go up it.



One or more ramps can be put parallel to the edge of the raised area. Be sure to leave large level platforms for turning.

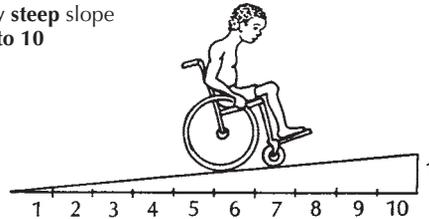
Addition of hand rails will add safety and make going up ramps easier for persons who walk with difficulty.

Very steep slope of 1 to 6



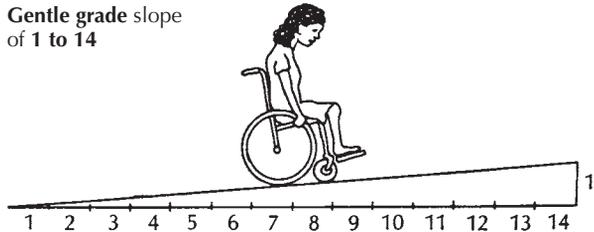
Only possible with electric wheelchair or with help. Rarely possible for rider alone. Chair may tip backwards.

Fairly steep slope of 1 to 10



Possible for riders with strong arms; strong paraplegics.

Gentle grade slope of 1 to 14



Possible for average riders and strong quadriplegics. This is the best slope for public buildings and rehabilitation centers.

