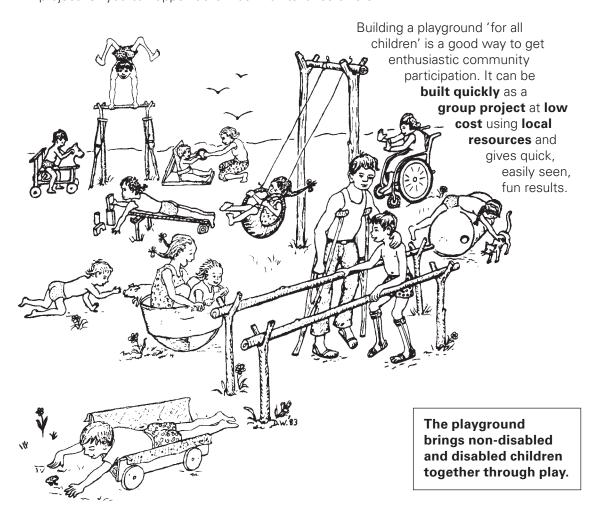
# Playgrounds for All Children

**CHAPTER 46** 

A good way to start a village or neighborhood *rehabilitation* program is to involve the local people in building a low-cost 'rehabilitation playground'. It is important that the playground be built **for use by all children—both** *disabled* **and non-disabled**.

With a little help from adults, the local children can build most of the playground themselves. To prevent the playground from being destroyed or vandalized, you may wish to invite some of the roughest local children and 'gang leaders' to help lead the project. Or you can appoint them as 'maintenance chiefs'.



To build the playground, it is best to **use local, low-cost materials,** and **simple construction**. One of the playground's main purposes is to give disabled children and their parents a chance to try different playthings and exercise equipment. Whatever works for their child, a family can easily build at home, at no or low cost. For this reason, a playground made of tree limbs and poles, old tires, and other 'waste' materials is more appropriate than a fancy metal playground built by skilled craftsmen at high cost. (Also, metal gets very hot in hot, sunny climates.)

These pages will give you some ideas for simple playground equipment. Although most of the photos come from PROJIMO in Mexico, many of the ideas shown are based on a playground in Thailand (see p. 425) and on designs by Don Caston (see p. 642).

# A 'playground for all' built by children—PROJIMO, Mexico

When disabled village health workers in the small village of Ajoya decided to start a rehabilitation program for disabled children, one of the first activities was to involve the local children in building a playground.



1. First the children went into the forest to cut poles and vines.



2. These they brought back to an empty lot at the edge of the village.



While some children cleaned up the lot, others began to build the playground equipment.









The wedges can also be used for severely disabled children to lie on, so that they can lift their heads and play with their hands.



Pole seats like this help a child sit who still lacks balance, or has trouble controlling his position.



These separators will hold apart the legs of a child whose legs pull together (spasticity).



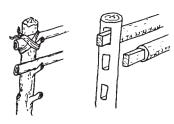
Putting front posts the same height allows a shelf to be placed for play.



Simple parallel bars can be used as gymnastic bars by the able-bodied children...

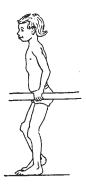


and as bars for learning to walk by disabled children.

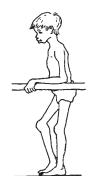


Bars need to adjust to different heights for different children. Here are 2 simple ways.

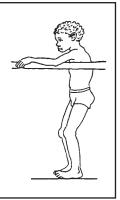




A child with very weak upper arms may find it easier to rest his forearms on the bar. The bar will need to be elbow high.

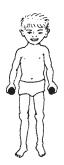


A child who tends to slump forward may be helped to stand straighter if the bar is high, so that he has to stand straighter to rest his arms on it.

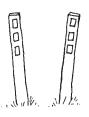


### SEPARATION OF BARS

Bars should be close enough to leave only a little room on either side of the child's body. Too close, they get in the way. Too far apart makes weight bearing more difficult.

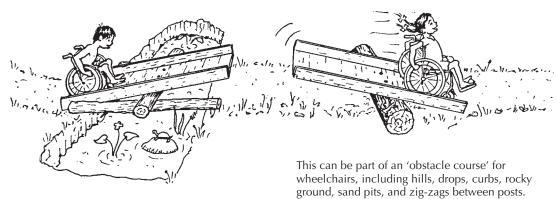


Smaller children require closer bars, therefore, put uprights so they are wider the further up you go.

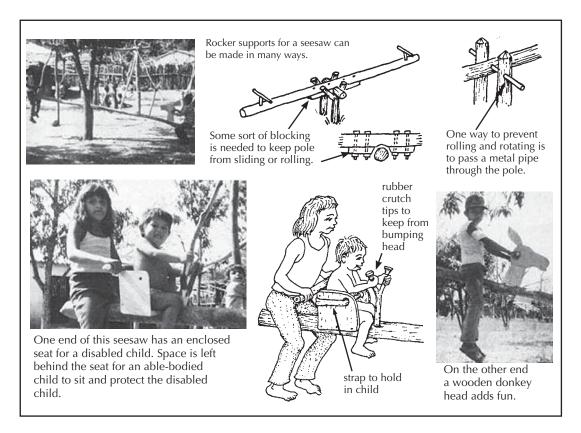


Simple, homemade bars, adjusted to the individual child's needs, often provide more benefit than expensive walkers or other equipment.

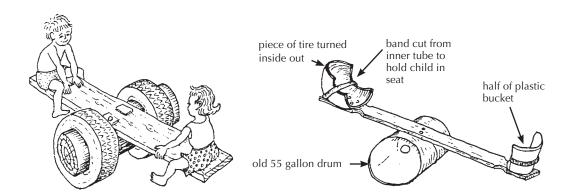
### TEETER BRIDGE



A simple seesaw or **teeter-totter** like this is fun and helps disabled children gain balance. The one in the photo was made by putting a pole in the crotch of a mango tree.



### Here are some other ideas for seesaws.



# **PRECAUTIONS**

- 1. To avoid accidents, be sure the pole for the seesaw is strong enough. Test it every few weeks by having 2 adults put their full weight on the ends of the pole.
- 2. To avoid coming down too hard, put old tires under the ends of the seesaw (see p. 425).
- 3. Make sure the seesaw will not roll lengthwise or sideways (see above).

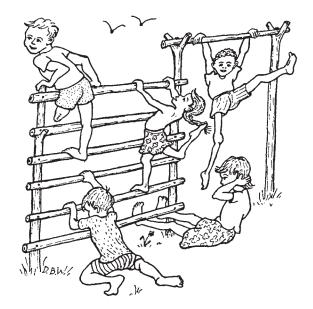
#### For another seesaw idea, see p. 425.

#### CLIMBING FRAME AND HIGH BAR

Children can make a simple climbing frame out of poles, by nailing them or tying them together with string.

The climbing frame can be used for all kinds of play, for helping disabled children pull up to sitting or standing, and for therapy exercise.

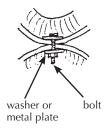
High bars (horizontal bars) at different levels for different children can be used for exercise and gymnastics.

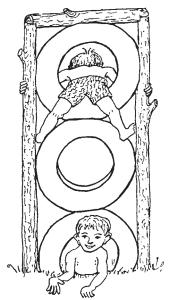


#### TIRE GYM

Climbing gyms can be made out of many materials, including old tires.

Gym will be more solid if tires are bolted together.



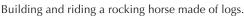


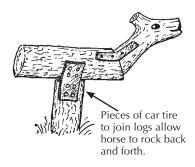


The children in the village of Ajoya, Mexico helped those in a nearby town build their own rehabilitation playground. This tire climbing gym was one of the playthings they created.









#### **SWINGS**

A wide variety of swings can be built out of different local materials. Swinging is fun; it can help develop balance, head control, coordination, and strength. Swings with special features can be built for the needs of particular children.



Here children in PROJIMO make an enclosed swing.



This child with cerebral palsy had never had a chance to swing before. At first he was afraid...



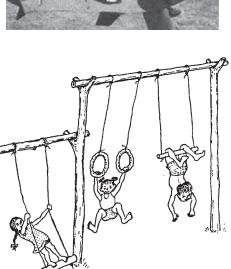
but after a while, he loved it.



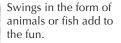
Regular swings are placed next to special and enclosed swings, so that non-disabled and



disabled children learn to play side by side.



Rope passes through hole in bamboo, and is knotted.





Extra wide swings allow 2 children to swing together—one assisting the other.



Rings for swinging and many games can be made by cutting out the inner rims of old car tires.

tie to hold

child in swing

#### SWINGS AND PLAYTHINGS USING OLD TIRES AND TUBES

This swing made of an old tire is especially good for children with spasticity because it bends their backs, heads, and shoulders forward.







of the tire.





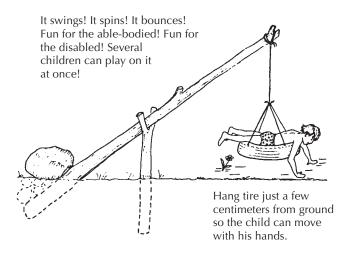
Then turn the tire inside out.



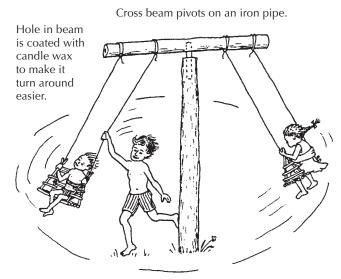
In this swing, a 'floor' of sticks can be put in the tire and covered with straw or a mat.

This **flat-hanging tire** swing is especially useful for the severely disabled or delayed child who is just beginning to learn to move his body. The child can lie across the tire and move this way and that by pushing the ground with his hands.





#### WHIRLYGIG CIRCULAR SWING

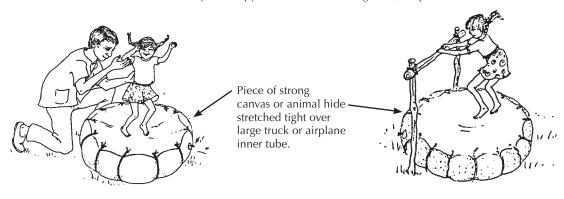




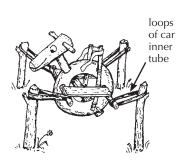
Circular swing in PROJIMO rehabilitation playground. (Here the child pushing the swing has cerebral palsy. The twisting motion he uses is excellent therapy.)

CAUTION: Be sure both the pole and beam are of strong hard wood. Test them occasionally with adults' weight.

BOUNCING TUBE (from Low Cost Physiotherapy and Low Cost Walking Aids, see p. 642.)



# **BOUNCING TIRE HOBBY HORSE (OR COW)**



Be sure to notch poles and attach tubes so they do not slip.



A cow's skull makes a good head for many playground toys. The child holds onto the horns. (Cut off the points.)

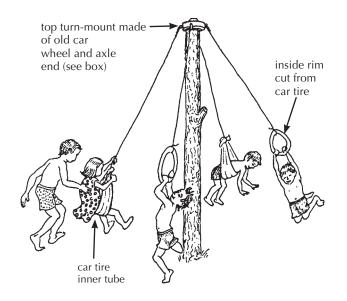


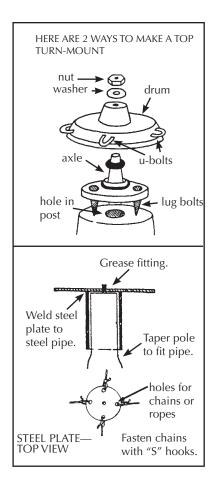
**Note:** It is much easier to put holes through tires that do not have steel wire in them.



# **MAYPOLE**

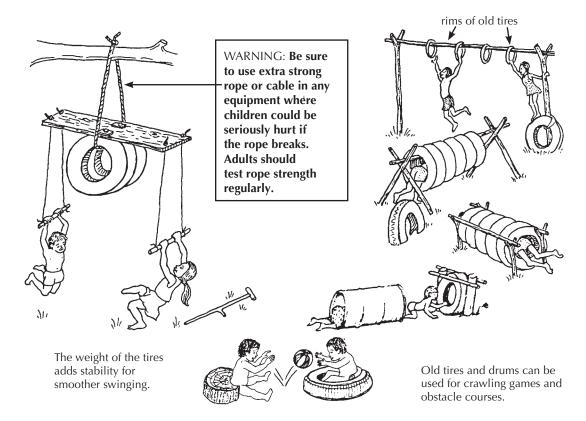
Disabled children who can sit and hang on can play with non-disabled children on the maypole. But to start turning round the circle, they may need another child to help push them.



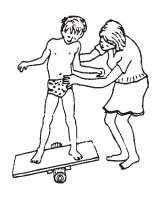


#### HANGING SEESAW SWING

# **OBSTACLE COURSE**



# **BALANCE BOARDS**

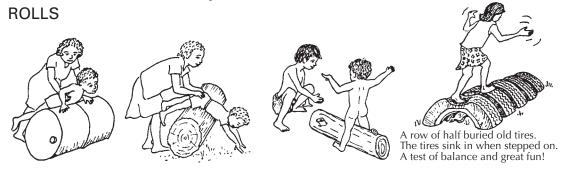






For the rocker, you can use 2 pieces of old tire.

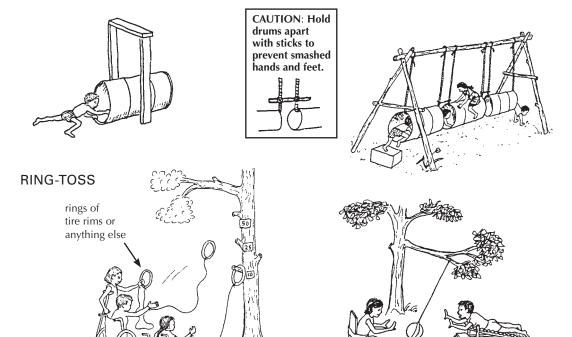
# For more balance boards and balance beams, see p. 576.



Old barrels, oil drums, paint cans, and logs make good playground equipment—for therapy and fun.

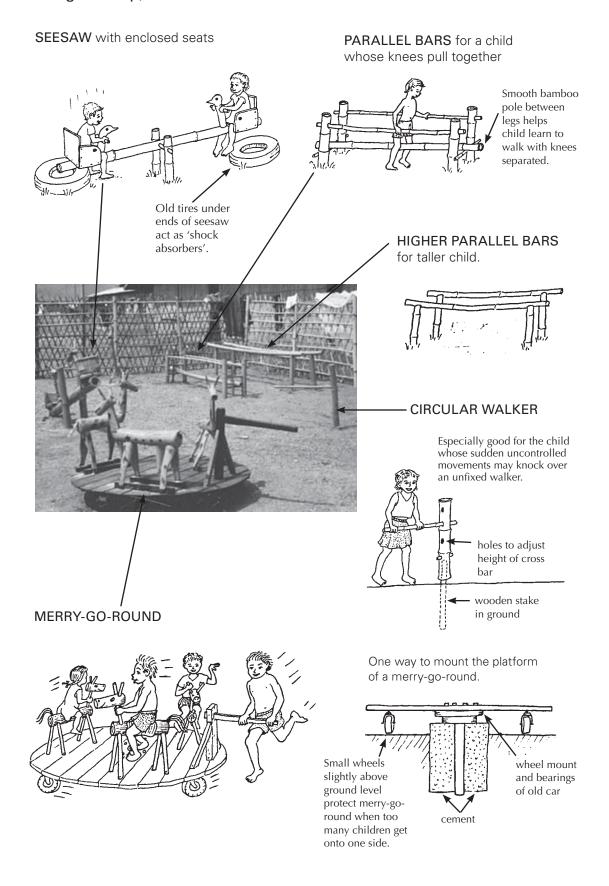
# **CRAWL-THROUGH DRUMS**

# HANGING CRAWL-THROUGH DRUMS



For children who have trouble going after dropped balls or rings, tying a string to the toy allows the children to pull it to them.

# Examples from the 'bamboo playground' in the Khao-i-dang refugee camp, Thailand



# PRECAUTIONS AND SUGGESTIONS FOR A SUCCESSFUL ALL-CHILDREN'S PLAYGROUND

- 1. Involve as much of the community as possible in building and maintaining the playground.
- 2. Keep the playground simple and build it from local low-cost materials. Only this way can it serve as a model for families of disabled children to build the most useful equipment for their child in their own homes. Resist offers from the local mayor or politicians to build an impressive metal frame playground. This will eliminate community participation and makes the equipment too costly for poor families to build at home.
- 3. For poles that are put into the ground, use a kind of wood that does not rot quickly. Do not use preservatives. Most have toxic side effects that are likely worse than any benefits.
  - To avoid accidents, **check strength of poles frequently** and replace them at regular intervals—especially during the hot rainy season.
- 4. Swings can be hung from ropes or chains. Rope or vines are cheaper but may rot or wear through fairly quickly. Plastic or nylon rope will not rot in the rains, but will gradually grow brittle and weak with the sun. As with posts, **to avoid accidents, check the strength of ropes frequently** by having several heavy persons hang on them at one time. **Replace ropes at regular intervals,** before they get weak.
- 5. Regular maintenance of the playground is essential, and this will require planning and organization. Perhaps once a month the village children can take an expedition to cut new poles to replace rotting ones, to repair old equipment, and to build new. Adult coordination of such activity is usually necessary.
- To boost enthusiasm, keep lists in a public place of all the children and adults who help with the playground and put a star for each time they help.



Children play on a 'merry-go-round' in PROJIMO. Enclosed 'cars' protect more severely disabled children. A cow's skull provides handles for a rider.