

HOW DO THEY... *Knit a Chain-Link Fence?*



How Do They...?

"Splendid attention grabbers, complete ideas presented with intelligence and style in a compact time period."

—Toronto Sun

How Do They...Knit a Chain-Link Fence? is one of a series of short and snappy videos that reveal the mysteries behind how everyday things happen.

Each of these fascinating little videos is without words. Ideal for teachers, **How do they...?** works across the curriculum. And the videos answer questions kids often ask!

How Do They...Knit a Chain-Link Fence? is a fascinating visual voyage, revealing what lies behind the fences many children see around their schoolyards every day.

User's guide inside!

Director: Don White
Producer: George Johnson

3 minutes, 39 seconds
Order number: C0197 163

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VHS

C0197 163

HOW DO THEY...

Knit a Chain-Link Fence?

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The Details

This guide explains what you see on-screen during this **How Do They...?** video, and it offers suggestions for classroom use.

Suggested Activities for the Elementary Classroom

This video explains one of the simple mysteries in life, encourages creativity and can be used in a variety of ways to enrich elementary classroom activities.

The following are suggested activities for Language Arts (to aid in descriptive writing and in sequencing) and for Social Studies (examining the importance of primary and secondary industries).

1. Find out what materials are used in making a chain-link fence. From which part of the world do these materials come? What other materials can be used to make a fence?
2. Have the students watch the video, describe and write down the process and then watch the video again. Use the description on this videojacket to help in this exercise.
3. List the uses of a chain-link fence. How many places can you name that have this sort of fence?
4. Why are chain-link fences better than other fences?
5. Research and explore difficult words such as: galvanization and plating.

Knitting a Chain-Link Fence

(We couldn't show the entire process in the video. Elements not in the video are marked "not shown" in the description below.)

Director:
Don White

Cinematographer:
Ken Kuramoto

Editor:
George Johnson

Sound Design:
Gael Maclean

Producer:
George Johnson

**Executive
Producer:**
Svend-Erik
Eriksen

**3 minutes
39 seconds**

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The process begins with the manufacture of the wire used to make chain-link fencing.

Large rolls of thick wire are unloaded from ships and left outside to acquire a coat of rust which aids in the galvanization process. (*Not shown.*)

These rolls are then immersed in an acid cleaning bath which cleans the wire in preparation for plating.

The thick wire is drawn through a series of pulleys and dies to be stretched and reduced to the proper size (*not shown*) before being wound on coils.

This wire is then drawn through a bath of liquid zinc where it is galvanized and then wound back onto a core. (*Not shown.*)

The galvanized wire unwinds from the core, receives a coating of hot, liquid vinyl (usually white or green), is cooled in a bath of water, and then wound back onto cores to be transported to fencing manufacturers.

At the chain-link webbing manufacturer, strands from two coils of coated wire are fed into a knitting machine.

These two strands are twisted around a flat "blade" — the wire and twisting apparatus are kept lubricated and cooled by a milky bath of liquid detergent.

As the wires are twisted, they are simultaneously fed down a long tube where the twisting motion threads each new wire onto the already-formed web. At the proper length, the wires are cut and, in turn, the new ends are fed down the tube.

As the web emerges from the tube, the ends of the wire are either twisted to remain sharp for security fences, or "knuckled" (bent over) if the fencing is to be used elsewhere (on school playgrounds, for instance).

The webbing is then wound into rolls.

The entire **How Do They...?** series is available from the National Film Board of Canada. **To order, call 1-800-267-7710 (Canada) or 1-800-542-2164 (USA).**