

A project of Volunteers in Asia

Visual Aids Tracing Manual

by: World Neighbors

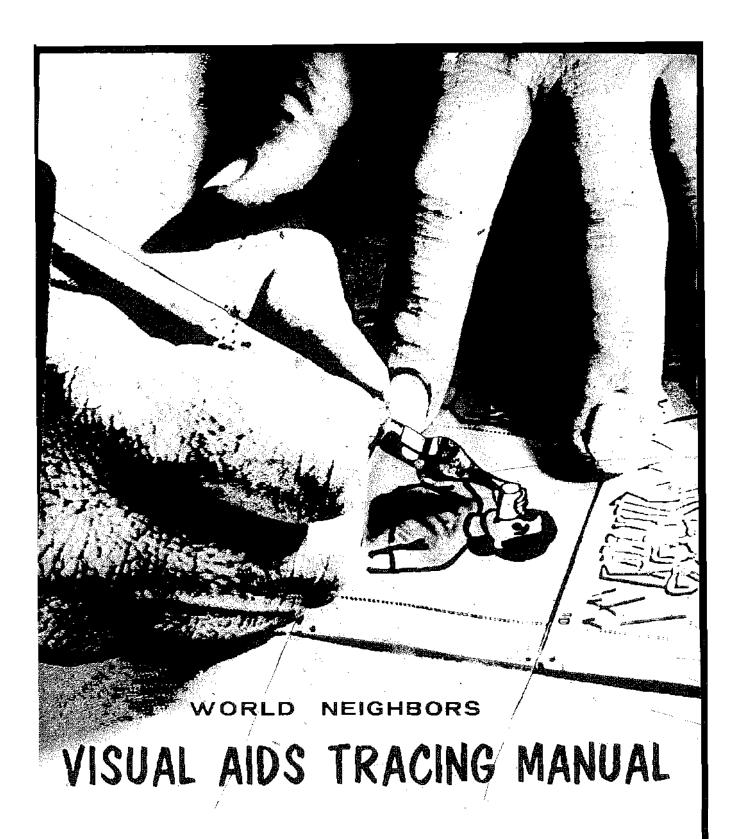
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Ideas and step-by-step instructions for the making of hand-drawn filmstrips, posters, and flipcharts from inexpensive materials

YOU DON'T HAVE TO BE AN ARTIST

-to make your own filmstrips

You may have heard other people say, or said yourself, "Visual aids are fine for people who can draw or who have an artist to draw for them, but I can't draw and I don't know an artist who can draw for me."

Another comment you might have heard is, "Visual aids really add a lot of interest to a program, but I can't seem to lind ones that are particularly relevant to my area's problems. Note seem to show exactly what I need to show."

Good Visual Aids Are Needed

These are both valid comments. Although filmstrips, flipcharts, posters, movies, booklets and pamphlets containing good information may be available, it is a problem to find visual aids which suit your program exactly. You may not be able to get them where you live or you may not even know where to look.

You may be waiting for some outside source to supply the visual aids which you need to make your work more effective. Many agencies are working to produce visual aids. But there are many time consuming steps involved in making materials.

When you finally receive them, how can you be sure that they will be compatible with your work? Will visual aids made by an outside agency consider the customs and habits of your area or the problems you think are the most important. Will they suggest solutions which are practical for your neighbors?

No one knows the customs, habits, beliefs and problems of the people you are working with better than you. In order to have filmstrips, flipcharts, posters and pamphlets which deal with the problems which are pressing in your area—and to have them when you need them—you must make them. You don't have to be artistic. You don't need an artist to draw your mat-

These filmstrips can be made using inexpensive materials available in any local market. You can easily make this type of filmstrip for your educational programs.





Eilmstrips enable you, as a field worker, to personalize the material you present and to be more effective. A Crusader projector is being used for this filmstrip presentation to cooperative leaders in Bolivia, South America.

erials and put them together for you. You can make them by simply tracing the pictures for the visual part of your program.

Materials Are Available Locally

Only a few materials are needed to make your own filmstrips, flipcharts, flashcards, posters and pamphlets. These visual aids can be made using materials which are locally available and not expensive. This manual discusses several of these materials and ways of using them. You may also want to try other drawing materials which are not mentioned.

The drawings in this manual are only a beginning for tracing your own filmstrips. You can find many other sources for pictures. School books, newspapers, magazines and small paniphlets are all good sources for pictures you can trace. Since tracing gives you practice in drawing, after you have traced several pictures you may want to draw a few of your own.

Read carefully the instructions which follow and you too can produce visual aids that will help increase the effectiveness of your programs.

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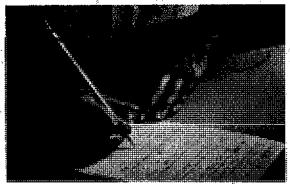
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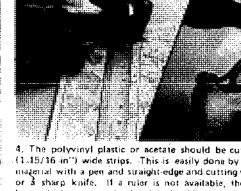
FOR INFORMATION ON CRUSADER PROJECTORS

ESB Incorporated P.O. Box 8409 Philadelphia Princylvania, 19404 U.S.A.

Mr. R. A. dos Remedios Expert Manager Ray O Vac International Corp. 604 Chartared Bank Building Hong Kong, B.C.C.



1. One main step comes before the tracing of a polyvinyl filmstrip, Select or write a sample but interesting story to use for a script. Obvide this story into sections, numbering each section. Each section should describe an action which can be easily illustrated by one picture. This will be the script for the filmstrip, its can be read during the program.



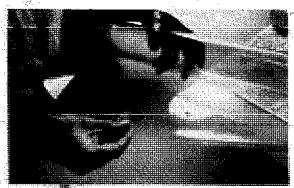
4. The polyvinyl plastic or acetate should be cut into 5 cm. (1.45/16 in") wide strips. This is easily done by marking the magerial with a pen and straight-edge and cutting with scissors or a sharp knife. If a ruler is not available, the horizontal lines which separate the drawings in this manual may be used to measure the proper width of the strip.



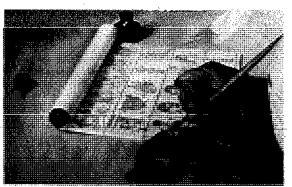
I. Smooth recough the watery lead and when persons which best illustrate your sozion. The number in the corner of the picture should be listed next to each section of the script. This listing will make the drawings easier to locate when they are to be traced. You may want to add some of your own drawings to make the strip races personal,



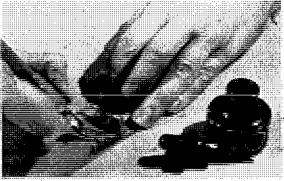
5. Prepare the surface of the strip by rubbing it vigorously with a ctoth moistened with gasoline. This procedure assures that link and other liquids will adhere. To avoid accidents, keep the gasoline out of the reach of children and away from fires. Strips may be cleaned enough to work with some inks by rubbing with a cloth and avoiding contact with the fingers.



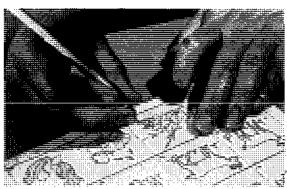
1. Periodicipal Mainter in mountly in rolls, abbecaugh in many more times be found as pre-cut sheets which are about one meter aguare. This plantic is sold in hardwere, paint or general stores and is not expensive. A one meter square is enough plastic to make about 26 filmsorips. Acetate is sold in stores where destring on art masserials are evaluable.



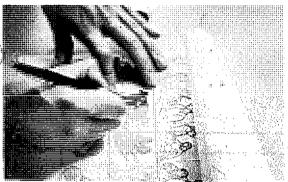
6. Tracing can be done with a pan point dipped in India ink. Several types of permanent link will give good results, but washable links are usually unsuccessful. A 8-6 size lettering point is recommended, however, any pen point will work. including a fountain pen. The pen point most be pressed very lightly on the surface, or the ink will not adhere,



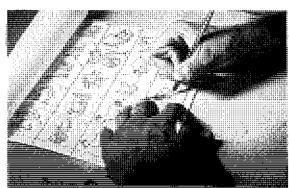
7. If the ink is put on too thick it will crack after the filmstrip has been used a few times. Because of this, many people use a finer line white they are learning to trace or when they want more detail in a picture. To draw a finer line use the B-6 lettering pen point upside down, or use a fine pointed Crow Quill pen. Fine and thick lines may be mixed.



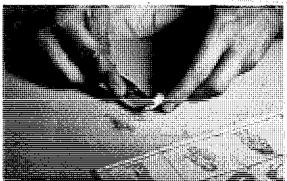
10. A sharp point of any sort may be used to trace on the plastic or acetate. The scratches are not easily seen while the tracing is being done, but show well when the filmstrip is projected. This type of drawing is good if very detailed, small drawings are desired. Press lightly when using acetate, or the material will be cut all the way through.



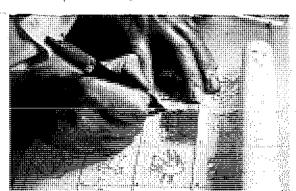
"8. Fine pointed colored marking pens are also good for tracing on polywhyl or acetate. Some brands are better for marking on this slick maserial than others—usually those that have an alcohol small to the tip are the best. Before large quantities are purchased, experiments should be made with any marking pens that are available to be sure they will write on plastic.



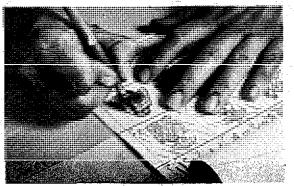
11. Ball point pens may also be used to trace. However, it may be necessary to go over each line more than once. Each stroke will add a small amount of ink. Solid areas are best achieved using a ball point pen if hatch marks are made. These should overlap at varying angles. A ball point pen is more successful on polyvinyl plastic than acetate.



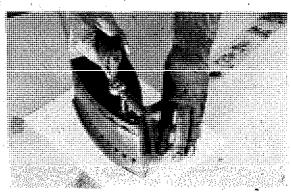
9. Chims Markers write on polyvinyl plantic or access very well. Colombid Chims Markers are available, but all colors seculty project as black or a very dull color. It is important to been the point of the marker sharp, so that the traced protects will be need. A dust point will not only make the image rough, but these cases assume so the drawing.



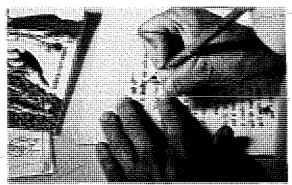
12. Filmstrips may be as colorful as you desire. Solid background colors are applied by using large magic markers in broad sweeping strokes. Coloring with magic markers should be done before the drawing is traced, or on the back of a traced drawing. If you attempt to color on top of an inktracing, the marker may rub off the ink or smear it.



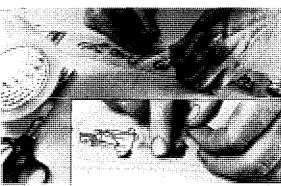
13. Faces, clothing, plants, animals, ground and sky may be colored with marking pens while the strip is over a tracing book illustration. This type of coloring can be done before the actual tracing begins or on the back of a traced picture. Since a colored markers react differently with acetate and polyvinyl, experiment before buying a large quantity of markers.



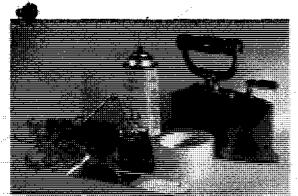
16. Tracings may be sealed by ironing a blank strip of thin polyvinyl plastic over them. This method does not work for acctate. After being heated by the iron, the strip must be allowed to cool lying flat, otherwise it may stretch of become distorted. Be sure to put a paper between the iron and the plastic, or they will stick together.



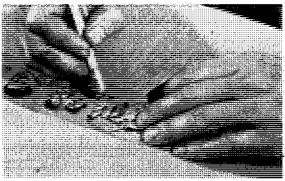
14. Titles may be traced to head a filmstrip. Magazines, newspapers and books are good sources for lettering styles in any language. When a style is selected, letters for the title are traced just as the tracing book illustrations were traced. Be sure to keep titles small enough to fit into a projected format. Solid color backgrounds are good for titles.



17. Transparent tape is good for sealing the tracings. Since a long piece of tape is difficult to handle, each traced illustration should be sealed separately with a short piece of tape. It is best to use clear tape which is 5 cm. wide, but if this is not available, narrower-tape may be used. Careful application of the tape will help to prevent air bubbles.



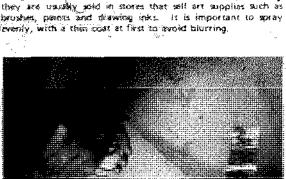
the littles or perhydropt or sources relevantly to complement, traced, it must be seased to be asia that the traced image will not get nubbed off accidentally. Several methods of sealing work well, but, only one is needed. Use the method which is easiest and most convenient toryor. Make sure the tracings are very dry, before any method of sealing is used.



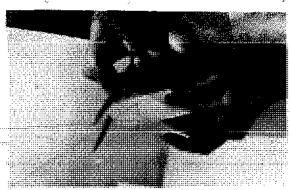
18. Even with the greatest care, as bubbles will form under the tape. They should be immediately pricked several times with a pin and pressed with the linger to expet the air. If the bubbles are simply assed without puncturing, the air carry not escape, and a choudy effect will result on the tape. This cloudy effect will show in projection.



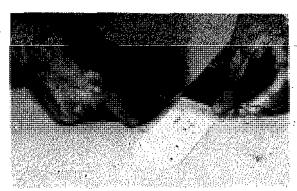
19. Presential spray waters are available in some places. These waters work with but have the disadventage of not being available everywhere. Where they can be purchased, they are usually sold in some that sell are supplies such as probles, paged and disaving into 11 is important to spray leverly, with a this icoust at first to savid biurring.



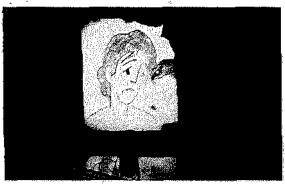
20. Tracings may also be sealed by spraying clear fixative or lacques with an attender. Lacques is usually sold in hardware for house gainst stores, while attenders are sold in art supply secret. The spray should be as fine as possible, and lightly sprayed at fine. Repeated sprayings will build up a thick coating, if you allow time for drying between each coat.



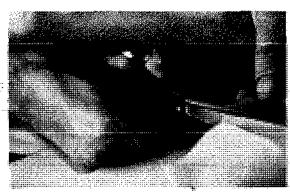
It is sufficient the finished than fillinearing, is forested mounts to the actional. These cases has related by exercising a rectaingle of coord-bosserid are weight as the string band labours 10 cms. long. Clin off the commerce of some earth operate assay he too thinks to go letter the properties of according to the properties of the pr



22. The end that is not cut should be attached to the polyvinyl strip with tape. Both sides should be taped securely to be sore the strip can be put into the projector easily without getting caught on the edges of the projector gets. This leader needs to be free-from writing. Later this will be used to write instructions for inserting the strip into the projector.



23. Posters and faincharts can also be quickly and easily made using this tracing book by projecting the image cuto a large piece of paper and retracing it. Posters con-introduce a faint-strip or announce its screening date and time. Flipcharts containing the same information as a faintstrip presentation will repeat, and thus strengthen the message.



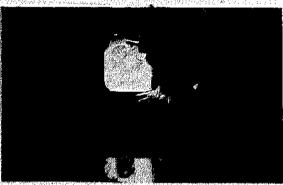
24. To make a postine or a set of flipchents, the exected blussmations make first be traced on polyminal, acceptably or tracing planes. Tracing paper is grown for this purpose become a power's can be used to stack the image. To readily posters or filipcolarity first out a small plane is form by 10 cm. I of your material. This small plane is assisted to historie than a long strip.



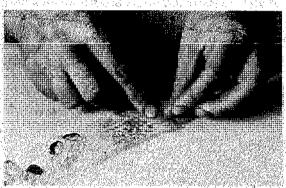
25. A practing is made on the participal value was unding mandal from its a man used to make filter three. Titles may be hadded from a manufacture, or ready less lettered from the manufacture. Titles for posters should be short. If a program or service is being announced, be sure to make the pine and the date on the poster.



It is a common and their tream and their tream include from the book. One advantage of tracing paper is that any type of pen and ink, pencil or marking pen may be used for tracing. The pictures can be colored with marking pens. For more transparency tracing paper should be oiled on the back, with machine oil, butter or grease, after the drawings are made.



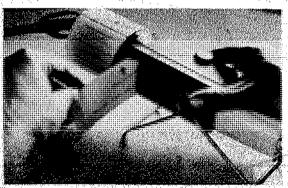
26. Project this traced drawing onto a large paper attached to the west of a deficient room. After the drawingshas been outlessed so period, the paper can be taken off the wall for completion. Both posters and fispoharts are made this way, attacked posters and tapoharts are made this way, attacked posters should be larger. Coloring with paint, wax crayous or marking pens adds interest.



29. Each picture on a tracing paper strip must be sealed with clear tape. Any excess oil should be rubbed off before the tape is applied. Overlap the tape so that all of the tracing paper, is covered. For more durability, cover both sides of the tracing paper with tape. The short pieces of tracing paper should be joined together with tape to form a long strip.



37. Hand traced filteraring can also be made antically of tracing paper, of the approximation of the control of tracing paper in the paper of the



30. To determine the direction of insertion of the filmstrip, stide it into the projector and project it. When the proper side is discovered, mark the cardiboard leader to show which sade should to up and from which side the strip should be inserted. This will make it easier to put the filmstrip into the projector on future occasions.

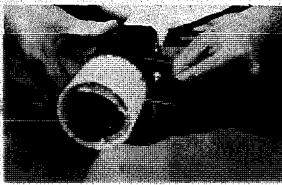
It I MANGET AND THE A E can array in the middle to fit the exist gate of a Commentar, as this part means he seriored to restor to use a head-drawn filterative. A small out in the from exist gate allows, the strip to easily pass through. As shown above, the out should be as the center of the opening, and should be as parrow as possible, to belp support the filmstrip.



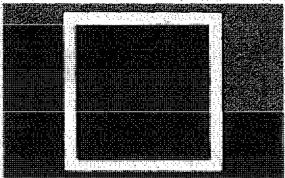
II. One proof mentions of altering the arts game of the prorector is written backware suids. Can devote be release to make the cut exactly in the medicin of the cate. The cut should be only is wide as the backsow blocks. It should be deep enough to reach the order of the projector, but the side must not be out. Cathing the page of the projector will weeken it.



III. Asserting marting of planning the production in to explic a from 1975, while a next known. The known may be bested with a countrie of a martin. Where unity this martine, the known should be left to plann and the planne countries of larged adjacents. Against the passes to project orderwise of larged adjacents. Against the passes to project orderwise the passes of the sale of the projector body.



34. Since a polyvinyl or acetate strip fits loosely into the projector, a stabilizer should be made to keep the filmstrip in focus. A clear piece of rigid plastic 8 mm, thick or a piece of glass makes a good stabilizer. This should be cut into a 5 cm, by 5 cm, square in order to fit a Crusader projector. The edges should be ground or filed to avoid accidents.



Iff. If plant or plantic is not mentioned, months type of stabilizer can be made from a piece of cardboard. The cardboard must be about 3 mm, thick so that it will be rigid. It should be cut with scissors or a razor blade to the exact size and shape shown above. It is important to have the inner edges smooth because they will be visible when your filmstrip is projected.



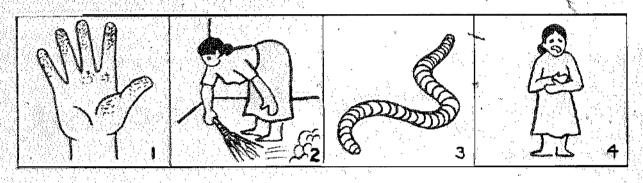
III. This conditional matelline is the four into the boart point of the projector and taped into place. It is not necessary to remove the stabilizer. With the places in given cubistion, it is best to meen the strip before the stabilizer is put into position. If the strip is neveral become the stabilizer is put into position. If the strip is neveral become the stabilizer is fived for the stabilizer to know it from falling out.

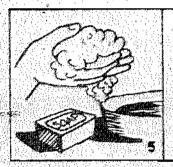
HERE'S A FILMSTRIP YOU CAN TRACE

Here is a short filmstrip you can trace directly, just at it is. You can use and of the methods mentioned in the instructions for drawing or all of them. Experiment. Try tracing with any of the drawing materials you have on hand or can stuly obtain.

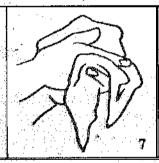
Hand-drawn threstips are easy to make, anyone can make thesa. Practice always improves your skill, so if you are not pleased with the results of your first attempt, try again.

The script for this short filmstrip about the health hazards of dirty hands is printed below the figures. The numbers on the script correspond to the numbers on the pictures. You may want to add other points to this script so that it will include specific problems in your area.











- 1. Unwashed hands are diety, germ-covered hands. Diety hands lead to sockness.
- 2. The germs that see on dary bands come from everything you rough. Even when things look clean, they can be covered with germs or the ages of women.
- Germi and the eggs of worms are too amade to see without the help of a reaccoscope. Worms look persections like this Many people who are sick been second.
- 4. These backward seminals, show no pity for envisor. They wask from your dery leader and your occurs or order to look your entering and your second popular and go into your secondard. They cause stormach pains, went that from and order death—superially to before.
- 5. You can escape from the wrath of these germs by always washing your hands before you eat. Washing with water alone is not sufficient, you should always use soap with the water.
- i6. You should also clean your lingernaits very well. A whole, army of germs can hide under one daity fingernait.
- 7. After washing your hands with soap and water, it is good to dry them with a clean cloth. If you do not have a clean cloth, simply let them air dry. Do not use a dirty cloth; it has more germs on it.
- 8. Clean hands can help keep you and your family healthy and happy. Always wash your hands after the latine and before you gat, handle the beby or prepare food.

THE STORY OF TWO SONS

The drawings on this page are too small to trace. You will need to locate each of them in the back part of this manual in order to make a filmstrip about the two sons and their families.

Starting from the left end of your polyvinyl or acetate strip, trace each drawing in an order that matches the script. Begin by finding the picture to the left side of the paragraph numbered I and proceed down this page, Lay the strip along the horizontal lines that separate the drawings so that your tracings will be straight. To make the story even more interesting, change the names that are underlined in this script to names which are common to your area.

This filmstrip is designed to introduce a discussion about family planning. It is your responsibility to be able to answer any questions that are asked.



 A few years ago in the village Nagrota there lived Shri and Shrimati Singh. There were two sons in their family named Mohan and Rajinder. When the two sons reached maturity, they were married.



7. During this same period, Railinder and Rumula had only one child to care for, so they had enough from their equal portion of the farm's produce to buy a radio. They also made some improvements on their house and bought a table and some chairs.



2. After one year of marriage, a son was born to <u>Mohan</u> and his wife <u>Shanti Devi.</u> They were very happy.



8. Because they were practicing family planning and could afford another child, they decided to have a second batty. When Kumela discovered she was pregnant, she began visiting the family planning nurse regularly so that she could be sure of having a healthy baby.



 Rajinder and his wife Kymala Davi decided not to start their family right away.
 They visited the local nurse to displus postponing their first child for a year or so.



 On the advice of the family planning nurse, <u>Kumals</u> ate the foods that would make her baby healthy and strong. Sha knew that sating the proper foods would also make her milk rich and good for the child.



4. Rajinder and Kumala practiced family planning for two years before they decided to have a child. After three years of marriage, they were blessed with a son.



10. In the home of <u>Flatinder</u>, the birth of their next child was a happily anticipated event.



5. As the year's passed, <u>Mohan</u> and <u>Rejinder</u> continued to work with their father on the farm. They had a very good farm and because they used the new meds and methods that they learned from an agricultural extension against, they were able to produce more and more.



11. Meanwhile in the home of Mohan, Shenzi-blecame suspicious when she missed a period—was she pregnant again?!! When the missed her second period her fears were verified.



During these years, <u>Mohan</u> and <u>Shantilland</u> a child each year. Their whole portion of the farm produce was used to support their family of five children. They had no extra money.



 Shanti, filled with despair and anxiety about having another baby, finally went to the home of <u>Flatinder</u> to discuss her problems with <u>Kumala</u>.



13. She cried, "Oh <u>Kumala</u>, what am I going to do? I am going to have another baby, my sixth, while you are just now carrying your second child."

"I've told you to talk to <u>Mohan</u> about family planning," replied <u>Kumala</u>.

"But every time I start to talk about it I become embarrassed," Shanti replied.



14. Shanti looked tired, so Kumala advised, "Your heafth is bad. You must eat better and drink milk so that the baby growing inside of you will be healthy." "How can I?" asked Shanti. "We barely

"How can I?" asked <u>Shanti.</u> "We barely have enough to feed the children now. How can I take away from them for myself?"



15. Consoled little by her visit, <u>Shanti</u> returned home. When she told <u>Mohan</u> she was going to have another baby, he too was very dismayed. "Why is God so cruef to ust " he moaned.



16. As the months passed, <u>Shanti got</u> weaker and more and more irritable. It seemed as if the children were especially noisy. Even after a hard day of work in the fields, <u>Mohannever</u> found any peace and quiet at home.



17. One day, several months later, the family planning nurse was visiting <u>Kumala</u>. While she was there, the oldest child of <u>Mohan</u> came and cried, "Come, please, Mother is very sick and Father has gone to the market."



18. <u>Kumata</u> and the family planning nurse rushed to see <u>Shanti</u>. After the nurse examined <u>Shanti</u>, she gave her an injection and some medicine. She also fold <u>Shanti</u> that the should sat a proper diet.

"I will make sure she has the things she needs," promised <u>Kumala</u>.



19: <u>Yumala</u>, though heavy with child, daily cared for <u>Shanti</u> until she slowly began to regain her health.



20. It was a happy day in the home of <u>Rajinder</u> when <u>Kumala</u> gave birth to a baby gard. <u>Kumala</u> was strong, so she recovered



21. When Shanti's delivery time came, Kumala helped with the cooking and took care of Shanti's children. Since Shanti had given birth to a child every year, she was not very strong. Her recovery after this last birth was slow, but after a while she began to feel better.



22. Even though she was well enough to do the work in her home herself now, <u>Shanti</u> atways felt tired trying to keep the six children cleaned and fed.



23. Mohan had hoped that things would improve after the birth of the baby, but it seemed they only got worse. This year their son, Vijay, had started to school but he did not have the books and supplies he needed. When he came to his father and asked why, Mohan painfully explained that he had no money for these things.



24. Day by day <u>Mohan</u> became more depressed with the problems of providing for his children—and then, too, there was the difficulty between him and <u>Shanti</u>. They were forced to stay apart due to the fear of another pregnancy.



25. With burdens too heavy for him to carry alone, <u>Mohan</u> went to <u>Rajindar</u>. "Why has God turned his back on me? The farm production increases and yet I cannot provide for my family. We divide the produce equally, but yours provides more."

Rajinder replied, "God is not at fault you are. You have fathered more children than you can provide for."



26. "I have tried to convince you to go to the clinic to find out about family planning methods," <u>Railinder</u> continued. "But you always refuse. If you agree to go with <u>Kumals</u> and me tomorrow, at least you can keep from adding to your problems by having a seventh child."

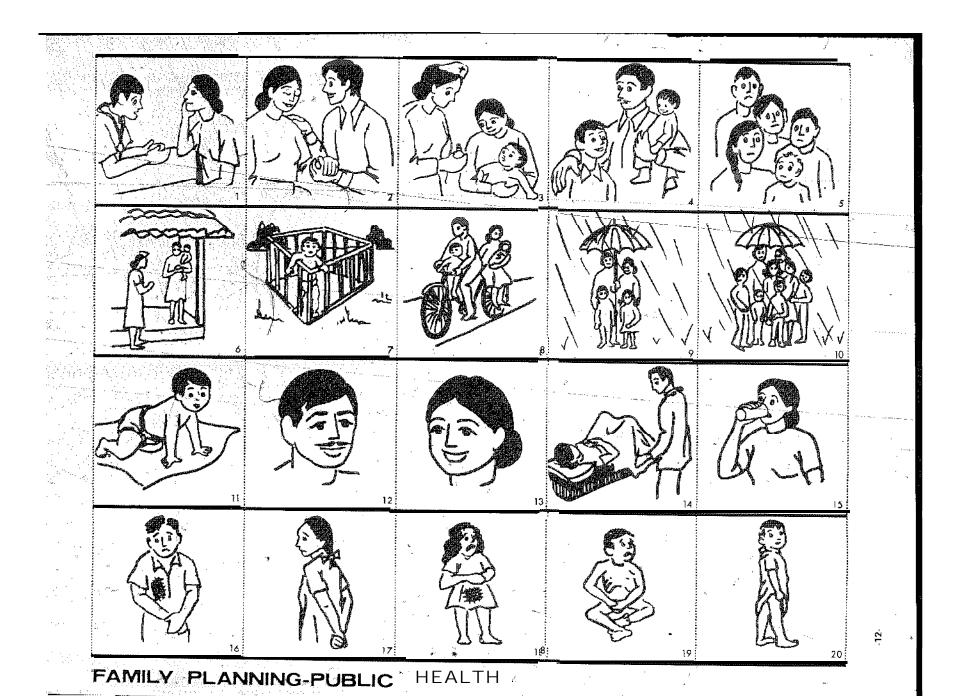
"All right, I will tell <u>Shanti</u> and we will go," replied <u>Mohan.</u>

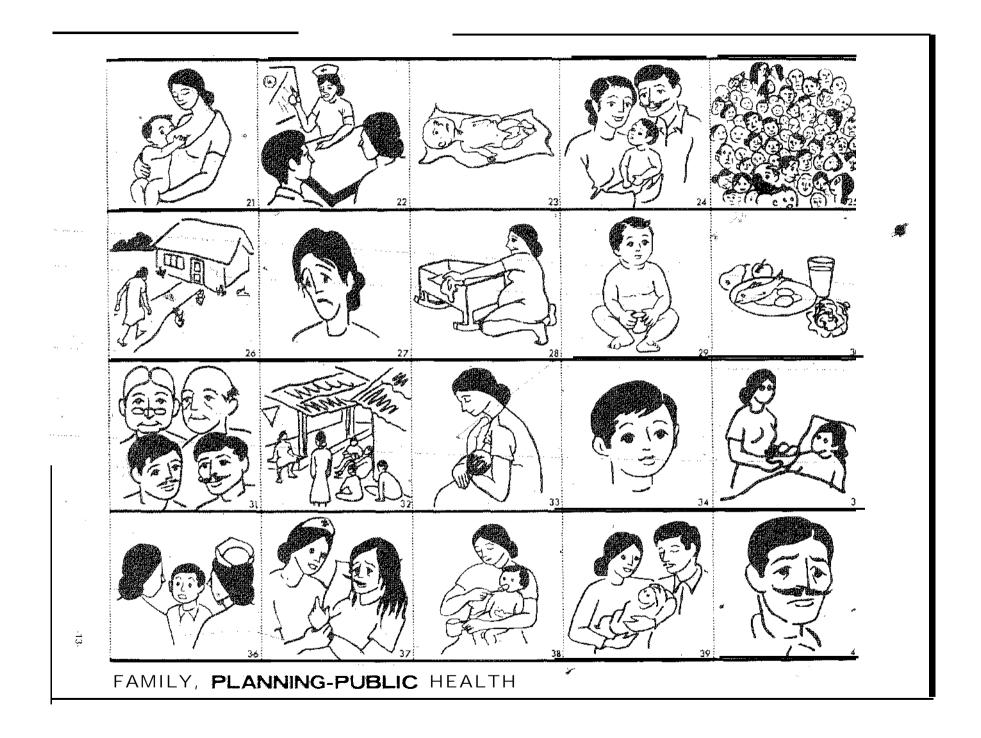


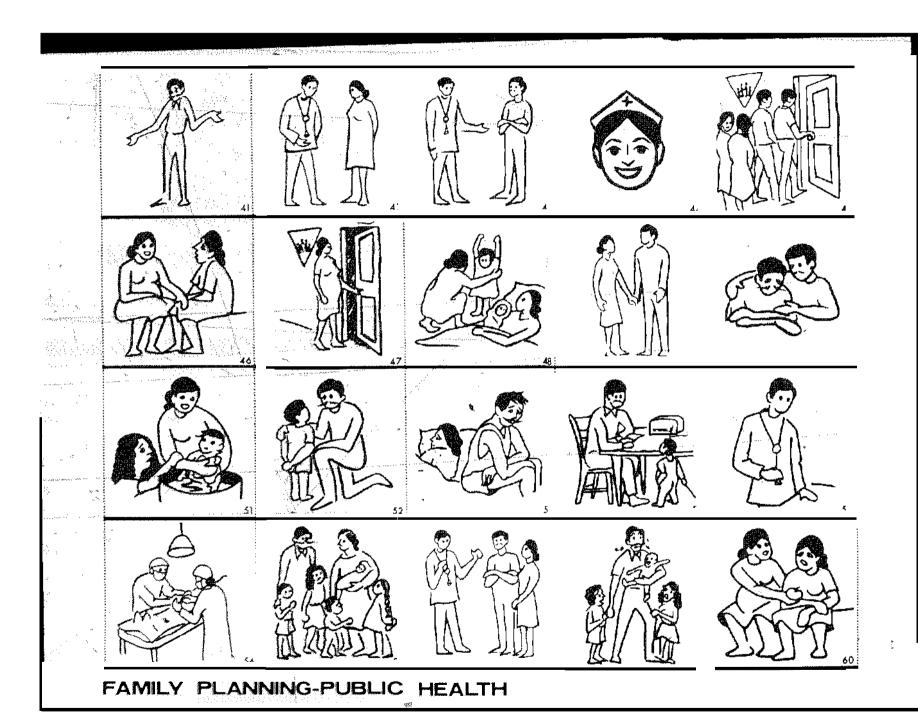
27. So the next day <u>Rejinder</u> and <u>Kumate</u> took <u>Mohan</u> and <u>Shanti</u> to the clinic to discuss the methods of family planning. They had many questions to ask the family planning nurse.

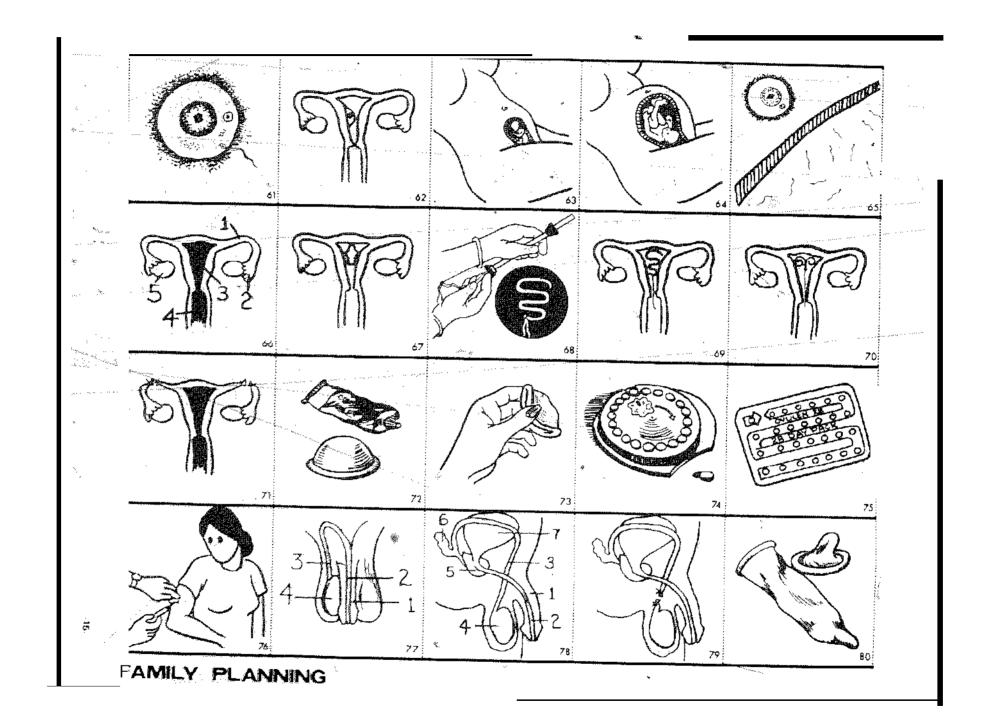


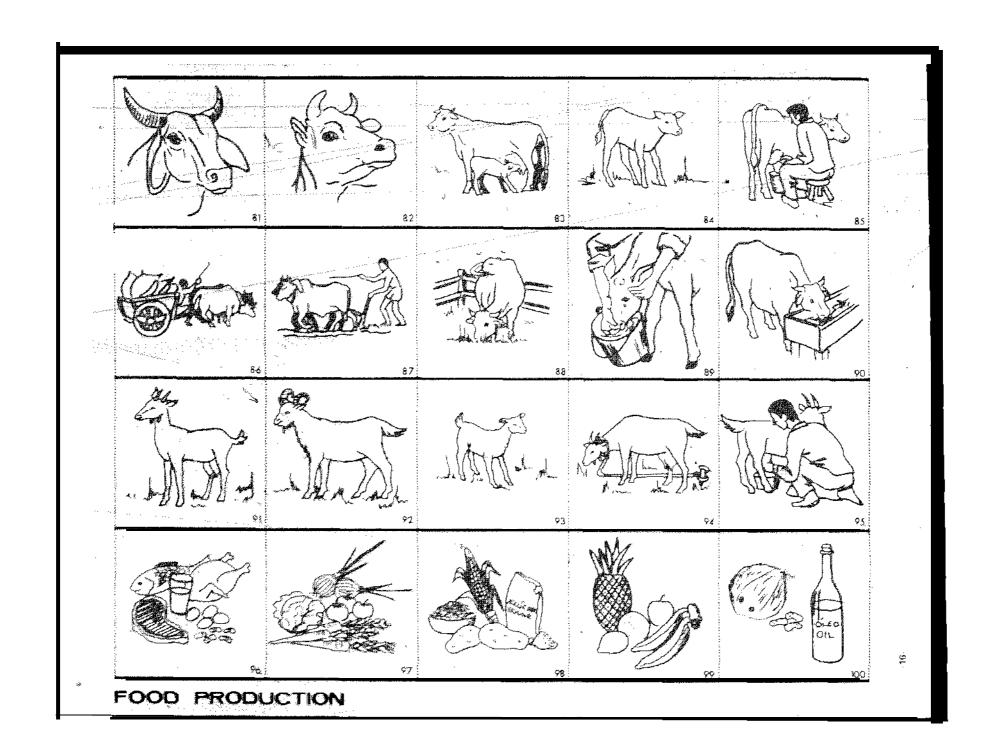
28. What kind of questions do you think Mohan and Shanti saked the nurse? If you were <u>Mohan</u> or <u>Shanti</u>, what questions would you ask?

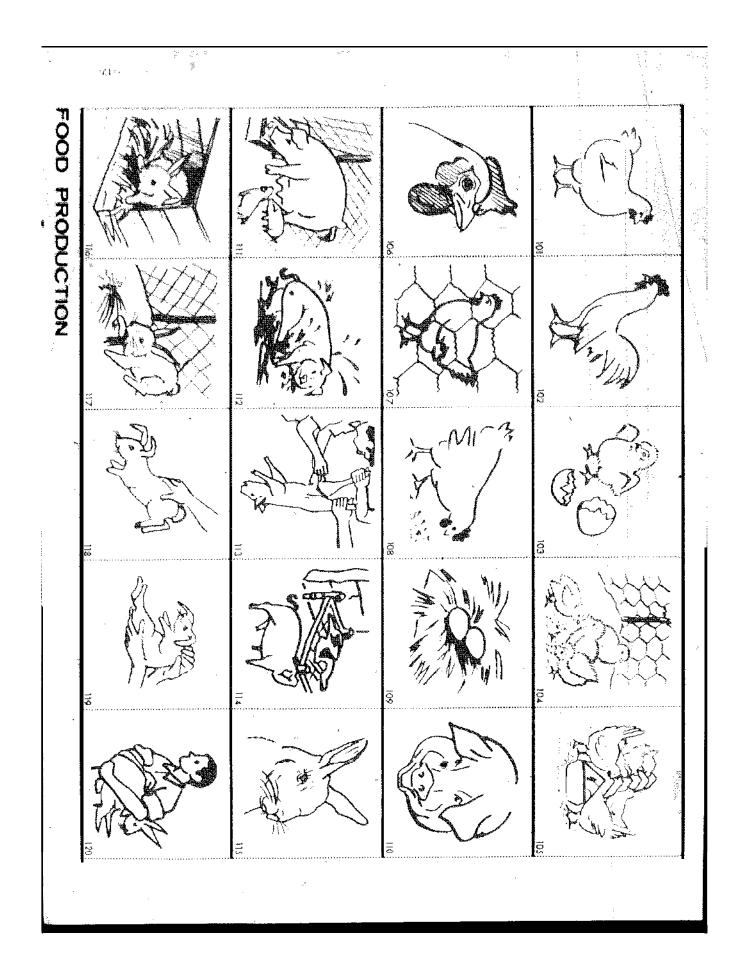


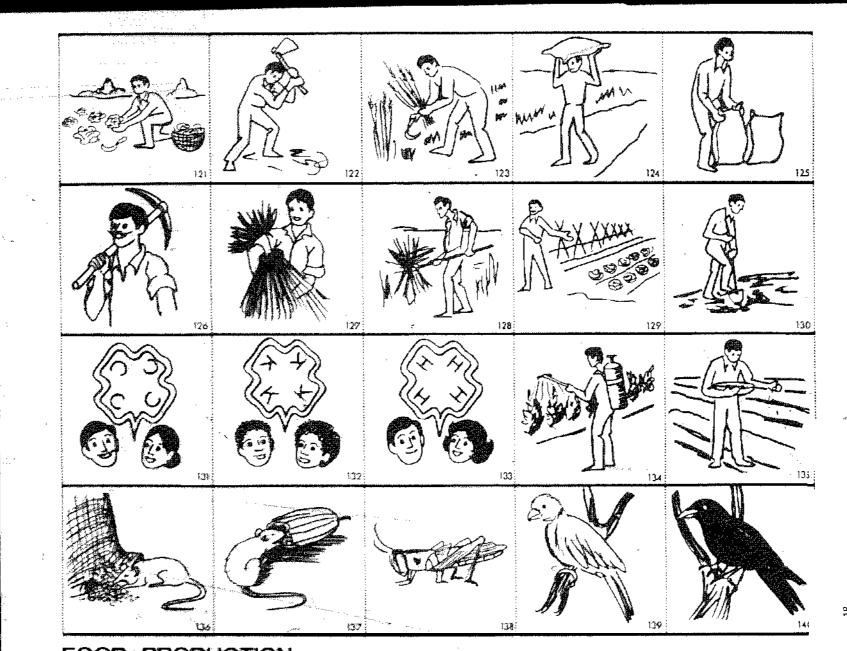












FOOD PRODUCTION

