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# Introduction: Material Making for Biographies Only

**This document includes directions for making all the 3D objects. Using sheet protectors with this printed document is suggested.**

Notice the following sections of this document:

◆**Biography Object List**—Arranged in alphabetical order by person and includes all the objects which are part of the four biography boxes. Object lists delineate whether an object is **purchased** and where, **printed** from an included document **or made** with directions included and where those directions are located in this document.

◆**Comprehensive List of Supplies** (by Type of Store)

◆**Construction** by type of material or construction method

This organization allows for making objects by construction method. Time can be set aside just for making the clay items or just the wooden materials.

The guidelines for making items:

◆The materials are meant to be attractive without being distracting, expensive or valuable. No one looking at your materials should feel he/she “couldn’t make that”.

◆All the objects other than the pieces that require length—as in the Life Lines sticks—should fit in the palm of an adult’s hand.

◆There should be some intrigue in how some of the materials are arranged—like the mirror wrapped in a cloth but this should not be “over done” so as to become the focus of the child.

Abbreviations for:

◆locating documents from which to obtain printed materials

◆headings in this document under which directions will be found:

**THE MAIN ABBREVIATIONS (which can be typed into “Find”) ARE:**

**MMPP-----Material Making Printable Page-----this is used frequently**

**MMPP with C-----Color MMPP with SP-----Special Paper**

**WP-----Wooden Piece(s),**

**I-----Individual, WGP-----With Glued Paper**

**IWPWGP-----Individual Wooden Pieces With Glued Paper-----this is used frequently**

# Biography Object List

Key: ♦Red = Purchase      ♦Green = Print      ♦Black = Make

Name	Object	Location
Eberhard and Emmy Arnold	Household items on blanket	Miniature store; Sewing
Adin Ballou	Postage stamp on letter	<b>D-MMPPSP</b> ; Misc.
Daniel and Philip Berrigan	Burnt files	Misc. Items
St. Boniface	Monastery	IWP
Dom Helder Camara	Spiral (i.e. Christmas ornament)	Craft Store Or Misc. Items
Archbishop Elias Chacour	School complex	IWP
Cesar Chávez	Grapes	Craft Store
Dorothy Day	Soup pot	Miniatures Store
Lanza Del Vasto	White wool	Fabric Store; Purchased Objects
Adolfo Perez Esquivel	White scarf	Fabric Store; Sewing
Margaret Fell and George Fox	Candle	Craft store
Trevor Ferrell	Blanket (flannel)	Fabric Store; Sewing
St. Francis	Rough garment (br. burlap)	Fabric Store; Sewing
Mohandas Gandhi	Bag of salt	Grocery Store; Sewing
Conrad Grebel	Scroll letter	Misc. Items
Clarence Jordan	Tractor	Toy Store
Martin Luther King Jr. and Coretta Scott King	Framed Picture of black and white children in school	Craft store <b>D-MMPPC</b>
Muriel Lester	Kingsley Hall	IWP
Peter Maurin	Wrinkled coat	Fabric Store; Sewing
St. Maximilian	Measuring tape	Fabric Store; Misc.
St. Maximus the Confessor	4 centuries book	Paper and Cloth Books
Fr. Emmanuel McCarthy	White Agnus Dei/disc	<b>D-MMPPC</b> ; Craft Store
James and Kathleen McGinnis	Your Family Photo	Craft Store (for frame)
Fr. John L. McKenzie	Bible	<b>MMPPSP</b> ; Script. P. Sewing
Prof. Richard McSorley, S. J.	Door with peace signs	<b>D-MMPPC</b> ; IWPWGP
Dr. Maria Montessori	Globe	Toy Store (party favors)
Lucretia Mott	Chain	Hardware Store
A. J. Muste	Peace sign	Misc. Items
Origen	Prayer book	Paper and Cloth Books
Peace Pilgrim	Shoes	Craft store
Menno Simons	Mirror	Craft store
Mother Teresa of Calcutta	Bandage	Drug Store
Leo Tolstoy	Calligraphy pen	Craft store
Prof. John Howard Yoder	Latin sign	<b>D-MMPPSP</b> ; Script. Plaques
Fr. George Zabelka	Censer (jewelry supplies)	Craft store; Misc. Items
Prof. Gordon Zahn	C O list	<b>MMPPSP</b> Paper&Cloth Books
Jesus	Tomb	Clay Items
Mary	Wine Jug and Sign	Clay, <b>MMPPSP</b> ; Script P.
Stands for pictures		WP

[en.wikipedia.org/wiki/Mar\\_Elias\\_Educational\\_I...](http://en.wikipedia.org/wiki/Mar_Elias_Educational_I...) to see E Chacour's school complex  
[www.comstock.com/web/search/loupe.asp?Image=K...](http://www.comstock.com/web/search/loupe.asp?Image=K...) to see a photo of children at school  
[http://commons.wikimedia.org/wiki/Image:Kingsley\\_Hall\\_frontage.jpg](http://commons.wikimedia.org/wiki/Image:Kingsley_Hall_frontage.jpg) to see a picture for painting purposes

# Biography Support Materials

Supplies for these materials are in the Comprehensive Supply List

**Maps**— Obtain a map of the world and of the USA from a teacher supply store or National Geographic Magazine; the larger the better. This map is used on the floor. Other maps are printable with the web site included in B Black Line Maps.

**Quote Cards**—Print on white paper-4 6/8 in. by necessary length and mount on yellow poster board 5 in. wide x varying lengths. H documents.

**Scripture Passages**—Print on gold parchment paper. Fold the paper in half so you can see the words; cut the citation off 1 inch wide. I documents.

**Individual Timeline Cards**—Print on white paper. Cut paper 6 1/2 in. x the necessary length for each entry (all are less than 3 1/2 in), then mount on yellow poster board-8 in x 3 1/2 in. Consider color coding each set with initials, colored dots on back or different colored marker on the edge of each set. Half are sayings of the person/couple, half are significant events of the person/couple. J documents.

**Way of Light and Way of Dark Card Material**—Directions are in the cover note of that printable document. K documents.

**Lines of Transmission**—see Lines of Transmission below and for the lengths of sticks see L Life Lines: Lines of Transmission Measurements Printable Names and Dates for content that is printed and glued to the sticks.

**Moveable Glossary**—Booklet is printed on white paper, cover is green, cut to size and bound. Moveable Set B is printed on white card stock; cut the red word from the definition, trim the word strip to be 6/8 in. x 4 1/8 in. long. Moveable Set 2 is printed on white card stock and cut into strips 7 6/8 in. long (differing widths depending on the length of each “bullet” portion of the definition). The red word answer is 6/8 in. x 4 in. long. M documents are glossary materials.

# Comprehensive List of Supplies

(Many supplies and some objects will be found at home already)

## Craft Store:

- ◆ calligraphy pen—for Leo Tolstoy
- ◆ 1 bunch of plastic grapes to fit easily in palm of hand
- ◆ tea light or other candle
- ◆ small mirror
- ◆ spiral—Christmas ornament or thick wire shaped into a spiral
- ◆ small blue doll tennis shoes
- ◆ gold thread- so that this is visible we use a small “cord”
- ◆ 2 photo frames—paperboard or acrylic—to fit your King picture and peacemaking family— JK McGinnis’
- ◆ clay—baking, air or water cured type—
- ◆ small bottle of gold model airplane paint
- ◆ small set of acrylic paints

## Wooden Discs

- ◆ 1—2.5 in. wooden discs (for Fr. McCarthy’s object)
- ◆ 14 mm Bell cap—silver or gold—jewelry making supplies
- ◆ silver chain about 12 inches—jewelry making supplies
- ◆ 4 mm jump rings—jewelry making supplies

**ALL PLAQUES COULD BE CUT FROM THIN WOOD from hardware store**

## Scripture:

- ◆ 2 wooden plaques 2 1/4 in. x 2 1/4 in. (McKenzie quotes scripture)

## Materials Similar to Scripture Plaques or something like hardboard:

- ◆ 1 3 in. x 3 in. (Mary’s quote)
- ◆ 2 4 1/2 in. x 3 1/2 in. (Yoder’s quote and McSorley’s door)

## Hardboard type material:

- ◆ 1 rectangle 4 in. x 5 in. for base of Chacour’s school see page 20 AND wood if plaques will be cut to size rather than purchased

## Hardware store

- ◆ chain—only needs to be three or four links—last one bent open
- ◆ grey paint
- ◆ yellow paint
- ◆ black paint
- ◆ red paint
- ◆ “Gorilla Glue”
- ◆ Water-Based Polyurethane Clear Gloss (Aqua ZAR) (sealer)

◆◆ **screen bead**—30-35 yards x (3/4 in. x 1/4 in.)

◆◆ **birch plywood or hardboard** 1/8 in. to 1/4 in. thick if not purchasing pre-cut plaques (Craft store: hardboard entry includes sizes)

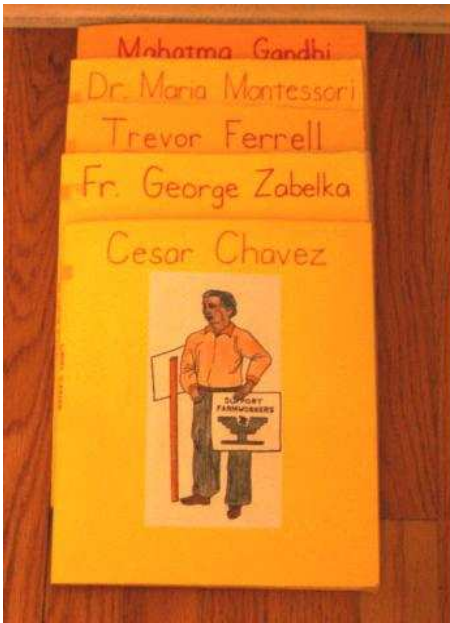
## Print Shop/Office Supply Store

◆ laser print all the black and white papers that will be sealed

◆ color photo copy Fr. McCarthy's Agnus Dei's, J.H. Yoder plaque and Mary plaque

◆ 2 sheets gold parchment paper

◆ 38 Yellow two-pocket folders—if you are going to spend the time to gather materials on each person included—and some are likely to not actually have anything to add—though the folder might still make an impression.



## Toy Store

◆ very small tractor not so attractive to the child that it becomes a distraction OR purchase at farm tractor supply toy—key chain size works—4-5 in size does not work as it seems to be a toy

◆ tiny globe (such as from party favor key chains)

## Miniature Doll House Supplies

◆ mini house hold items, pots, or furniture pieces. Does not have to be expensive

## Fabric Store

◆ tape measure (or piece of old tape measure)

◆ flannel—enough to make 2 --5 in. x 5 in. blankets (E. & E. Arnold and Trevor Ferrell or see below crocheted blanket)

◆ brown burlap or rough cloth—8 in. x 8 in. piece

◆ wrinkly black cloth—8 in. x 8 in. piece (P. Maurin)

◆ tiny crocheted blanket—so yarn is necessary (see T. Ferrell)

◆ small (8 in. x 5 in). piece of white wool

◆ **inexpensive white cloth to make:** A. P. Esquivel scarf , holder for Gandhi's rock salt and attractive bits of cloth for book covers; See Sewing Book or Paper and Cloth Books

## Drug Store

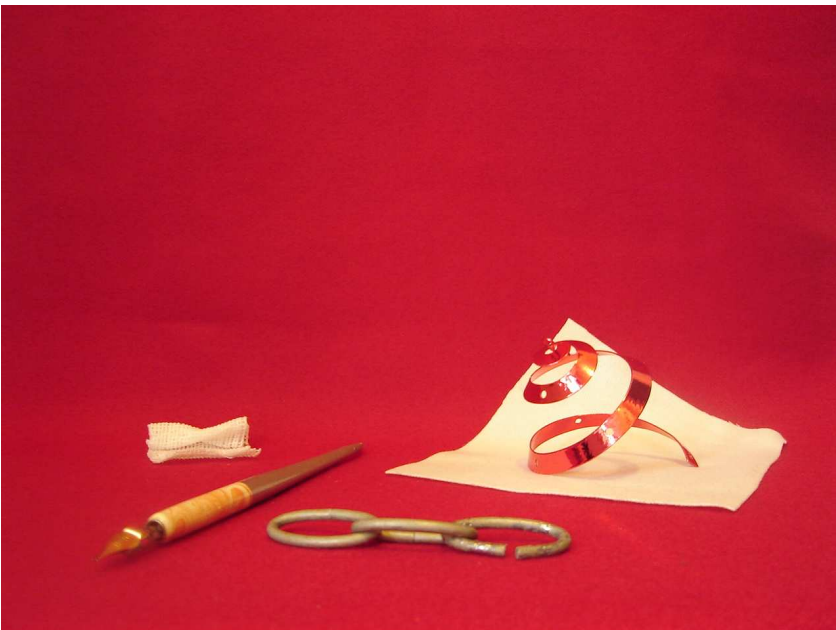
◆ bandage-roll type—small piece

◆ one personal letter size envelope -6.5 in. x 3.5 in.

# Purchased Objects for Biographies



**Peace Pilgrim's shoes, Clarence Jordan's tractor, Menno Simon's mirror  
Emmy and Eberhard Arnold's household items with Dorothy Day's soup pot  
Cesar Chavez's grapes**



**Mother Teresa's bandage, Leo Tolstoy's pen, Lucretia Mott's broken  
chain, Lanza Del Vasto's white wool under Dom Helder Camara's spiral  
Lanza Del Vasto's wool is simply a square of white wool.  
Menno Simon's mirror is wrapped in heavy cloth or upholstery fabric**



and stored in a cloth bag or special box—for intrigue and safety



**Maria Montessori's globe**, Mohandas Gandhi's cloth bag of salt,  
St. Maximilian's measuring tape, **George Fox/Margaret Fell's candle**

**Gandhi's bag of salt** is rock salt tied into a cloth bag.

# Construction

## 2 Yellow Burlap Timelines



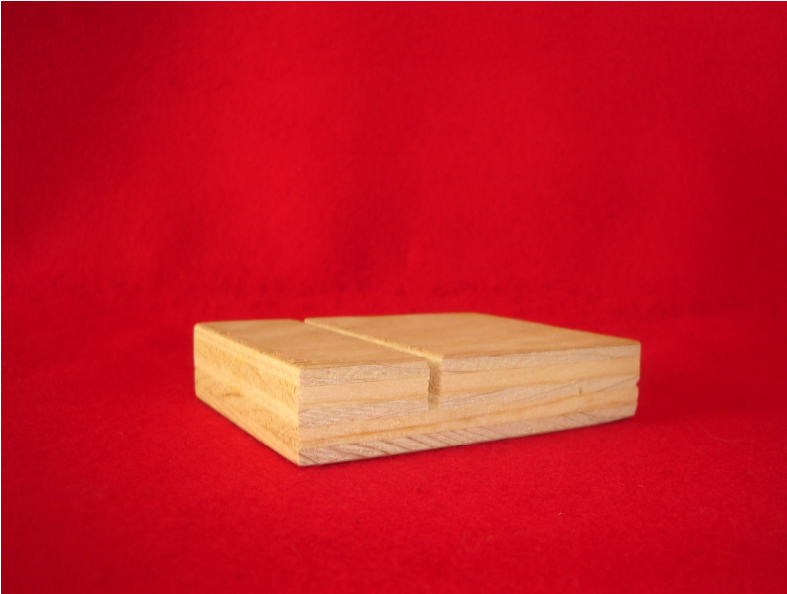
The 1800-2000 year timeline is used with the lifeline sticks.

Metric Measurements for timelines and some of the other materials are at the end of this document.

**0-2100 timeline—Make 1—8 ft. 10 in. x 18 in.** Make a red permanent ink (wide marker) line every 5 inches. Begin with the first line and number (100) 5 or 6 inches from the left edge; mark every 100 years. Lines are 16 inches high. Use a T-Square for accuracy. Numbers above each line are 1 -1.25 in. high. There is a line and a number for each 100 years from 100 to 2000. The timeline (without any more numbers) should continue for 5 or so inches past the year 2000. One timeline is for biography work, the other is for several Constantinian Christianity presentations.

**1800 to 2000—Make 1 timeline 9 ft. x 24 in.** Start with a 2 in. high (vertical) red line —about 2 in. to the right of the left edge. 4 in. further make another 2 in. high line. 4 in. further make an 18 in. high line for the year 1800. Write the number 1800 directly above that year's line marker. Century numbers (the only numbers written) are approx. 3 1/2 in. high. Continue marking each ten years with a 2 in. high vertical line. Each ten years is 4 in. apart. 50 year marker lines are approx. 3 1/2 in. high.

## WOOD CONSTRUCTION Wooden Pieces (WP)



**Stands** for Biography Picture Cards

The **stands** used for picture cards in the biography presentations are made from **3/4 in. oak plywood**. Each stand is 2 1/2 in.(front edge) x 3 3/8 in. A groove is cut 3/8 in. deep into the top of the stand, 1 1/8 in from the front edge of the stand. **Minimum of 12.**

## Individual Wooden Pieces (IWP)



Archbishop Chacour's school complex and Muriel Lester's Kingsley Hall

◆ Look at the photo of both these buildings from website listed after the Biography Object List.

**Archbishop Chacour's School complex** is a thin wooden base of **4 in. x 5 in.** with 4 rectangular prisms glued —each being a 4 story separate building in the complex— $1\frac{5}{8}$  in. x  $1\frac{6}{8}$  in. x  $\frac{6}{8}$  in. Paint the buildings all the same color and add silver windows.

◆ **Muriel Lester's Kingsley Hall** is 2 rectangular prisms glued together so one portion is slightly higher. Paint similar to the web picture—brown, black with silver windows.



Steps in making St. Boniface's monastery (different sized prisms)



◆ **St. Boniface's monastery** is approximately **2 in. x  $1\frac{7}{8}$  in. x  $1\frac{1}{2}$  in.** with the roof slant cut off so you have walls that are  $1\frac{1}{4}$  in. high and a peak of 2 inches. Paint grey stone color and use pencil to draw in stone lines, silver permanent marker or metallic paint pen or grey paint for windows. Or monastery can be made from clay.

## Wooden Pieces With Glued Paper (Multiples) (WPWGP)

### Instructions for Gluing Paper to Wood (to avoid wrinkles)

Since many of the following materials require paper glued to wood directions to avoid wrinkles are provided.

In a small bowl dilute one teaspoon of white glue with two drops of water (per teaspoon of glue), mix. With fingertips quickly spread a very thin layer onto the wooden surface past the edges of where the paper will be.

Quickly rinse and dry gluey fingers.

Place paper carefully in proper position.

Cover with a sheet of waxed paper—make sure the waxed paper extends past the edges of the paper you are gluing.

Using a (Brayer) roller, starting at the center, roll and press from center to outside edge.

Roll from center outward going in the opposite direction.

Do this several times in each direction.

Remove waxed paper and with a very slightly wet cloth wipe excess glue off wood being careful not to get the paper wet.

Set to dry thoroughly before applying sealer.

Apply two to three thin coats of sealer. Sealer could be a water based product from the hardware store **or** white glue (especially for small objects such as the Agnus Deis glued to dowel pieces) **or** a product called Mod Podge from craft stores.

## Lines of Transmission



Lines of Transmission

**Lines of Transmission** are made from **Screen Bead** wood 3/4 in. x 1/4 in. x length of each person's life—  
H Life Lines: Lines of Transmission. Printable names and dates must be printed with a laser printer (or photocopied at a print shop so the ink won't run). Test your ink/paper before you buy, cut, glue and seal a whole set.

- ◆ Measurements for these sticks go specifically with the 9 ft timeline. If you change the length of your timeline you will have to adjust the length of your sticks.
- ◆ Test out the measurements provided.
- ◆ Keep the measurement list close by when cutting wood.
- ◆ When cutting the wood put the name/initials of that person on the back of the stick to stay organized.
- ◆ Names are centered on that person's stick. Dates are at each end of the stick—cut the dates in uniform sizes.
- ◆ People who are still living have the end of their stick painted white to symbolize the blank page of their future.
- ◆ After the wood is cut gently sanded, paper and ink tested, paper cut and glued in place, then seal with water based sealer several coats.

## Scripture Plaques

All can be cut from thin wood rather than purchasing individual plaques from craft store.

2 wooden plaques 2 1/4 in. x 2 1/4 in. **McKenzie quotes** scripture. After paper is glued paint the edge gold, apply sealer, then see Sewing Books section of this document.

### Materials Similar to Scripture Plaques on something like hardboard:

- 1 3 in. x 3 in. Mary's quote
- 2 4 1/2 in. x 3 1/2 in. Yoder's quote and McSorley's door



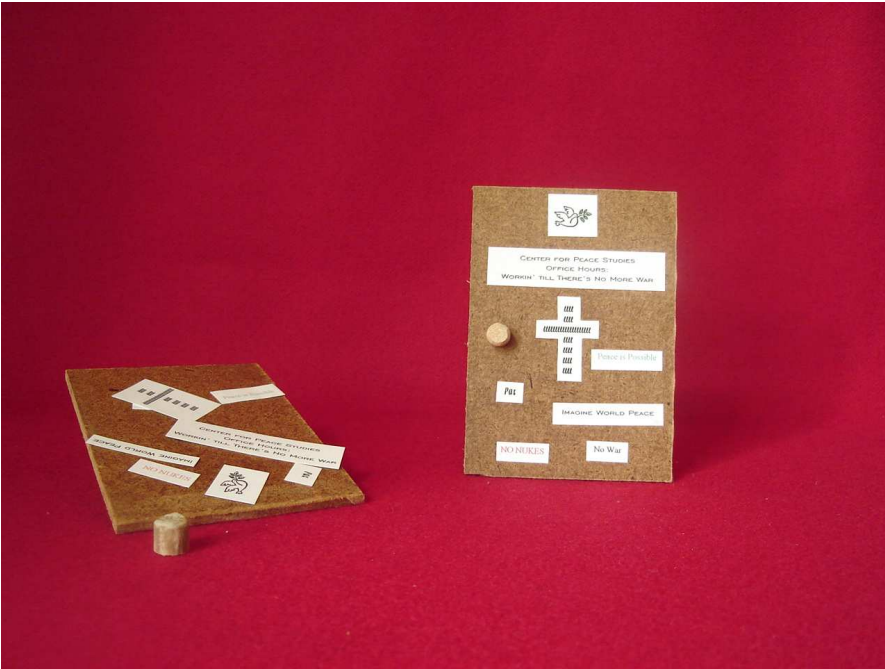
Edge of wood painted and ready to have paper glued

**Mary's** quote from D-MMPPSP

**John Howard Yoder Latin sign** is 4 in. x 3 in. Paint edge and 1/2 in. of surface red. Glue, seal and decorate with gold metallic paint when sealer is dry. From D-MMPPSP

Find the 2 in. sized disc for **Fr. McCarthy**. Paint it white. Glued photocopied Angus Dei from D-MMPPC

## Individual Wooden Pieces with Glued Paper (IWPWGP)

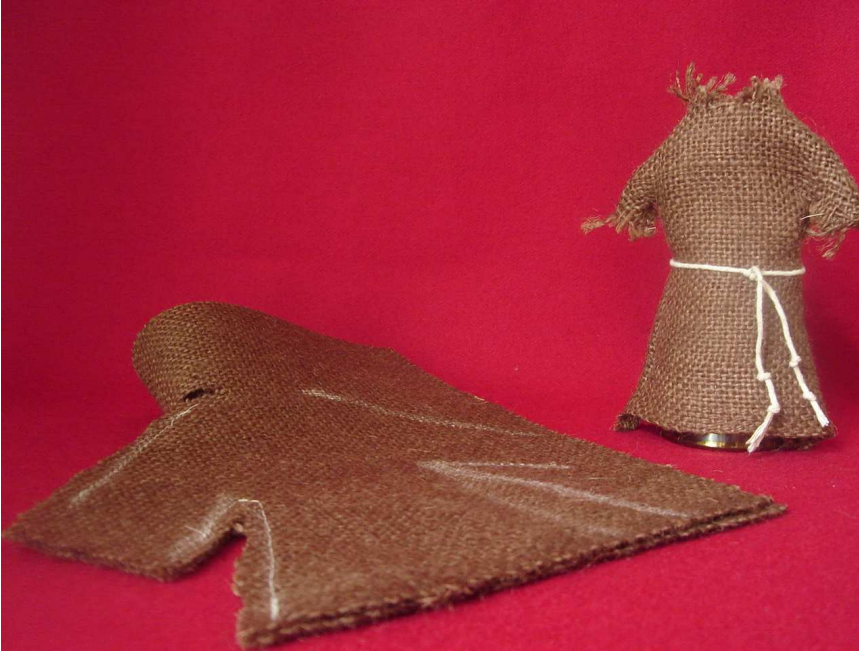


◆Dick McSorley's door covered in peace signs;

◆**Dick McSorley's wooden door**—4 in. x 3 in. Print, cut and glue peace signs from D-MMPPC. Cut a tiny piece of dowel for doorknob; sand to round a bit and glue in place. If sealer is going to be used color photocopy at a shop.



## Sewing



St. Francis' garment

◆ Rough brown cloth or brown burlap for **St. Francis**—approx. 5 in. long—two sleeved-gown shapes sewn together inside out just like a garment and then turned so seams are inside; tie a cord around the waist—This can be 2D-it just has to give the idea of a rough garment.



Peter Maurin's suit coat

◆ **Peter Maurin's suit coat** can be purchased but should look wrinkled. Or, draw a coat shape on black materials and sew on that line in a straight stitch so the collar, lapels, sleeves and center are accentuated. Cut

out the coat 1/4 in. from the stitching. Hand wash the coat gently; squeeze wrinkles into the coat as it dries. This is 2D as a coat is rather complicated to really make—all that is necessary is the idea.

◆**Bag for holding Gandhi's salt** is a circle or square gathered up around a small mound of rock salt and tied with a cord of some sort.



**Emmy and Eberhard Arnold, Trevor Ferrell and Early Christians**  
blanket with Adolfo Perez Esquivel's scarf

**Blankets** can be flannel or batting that is nicely cut or edged like a blanket, or can be a 3 in. x 3 in. square of crochet

White cloth for **Esquivel's scarf**, cut square, folded in half at the diagonal (pointed ends tied as if under the chin)

## Sewing Books



First step in **Fr. McKenzie's Bible**: Heavy red cloth or upholstery lined with (white) cloth, turned right side out to hide seams.



McKenzie's Bible passage: red cloth—befitting the Gospel Book—which has been lined with white cloth. Allow the necessary amount of space between the wooden pages—meaning the wooden plaques—for the **cloth hinge** to work.

The finished cloth is approx. 2 6/8 in x 5.6/8. The wooden pages are glued to the outer edges of cloth; the middle of the cloth shows (about 1/2-3/4 in.) and is the hinge or the inside of the spine of the book. **PRACTICE BEFORE YOU GLUE.** The red cloth is lined so the glue doesn't soak through to the red cover. Cover the pages/plaques with waxed paper and apply weight so the wood and cloth adhere well. Make sure the wooden pages don't slide out of place.

## Paper and Cloth Books



3 books are sewn—each of different sizes and thicknesses and different colored covers.

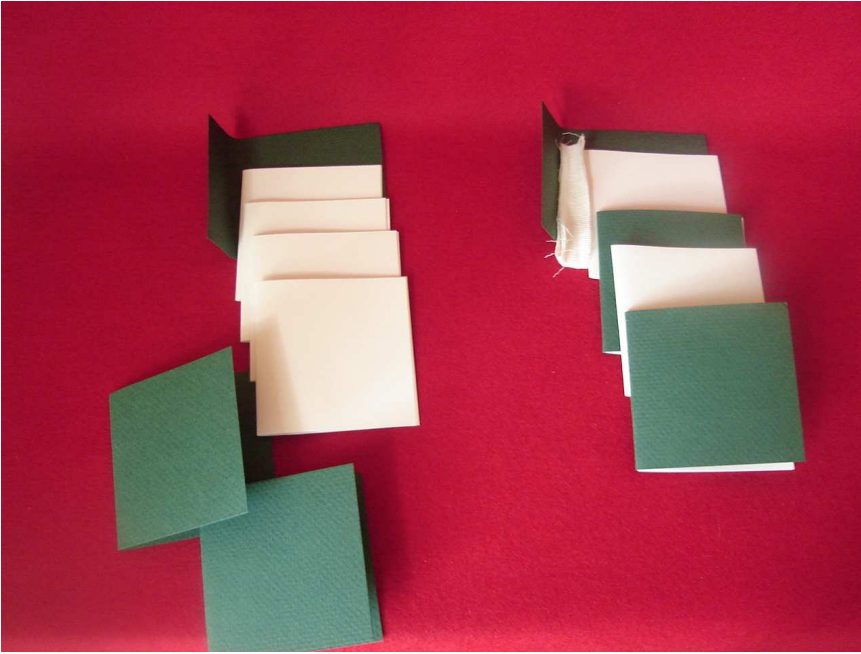
Cloth covers (at least 1/2 in. larger than the paper) are sewn with the paper. Then stiff cardboard the same size as the closed book is glued to the inside of both the front cover and the back cover. After you fold over and glue down the cloth which covers at least 1/2 in. of the edge of the cardboard use a piece of stiff paper to cover up the folded over and glued cloth edges.



**Gordon Zahn's Conscientious Objector List** has a top hinge and is 1.5 in. by 2.5 in. Make sure when you cut the Material Making page you allow plenty of paper above the list of CO names as that portion is folded behind the list as the last page in the book. Add several other pages with the list as the first page—then sew the pages together with the sewing machine. Finish cover as shown. Write CO List on cover.

**Prayer book for Origen** is 1 6/8 in. x 2 in.

**Maximus the Confessor's Four Centuries on Love:** See below.



Steps in making Maximus the Confessor *Four Centuries on Love*

FOUR CENTURIES ON LOVE needs to have 4 visible sections. The back cover of the first and third sections functions as the front cover of the second and fourth sections. Sew four mini paper books then glue those four books together with a stiff cover. The photo shows the last piece of green as the back cover which is folded over to the top of the book to be securely glued. Use a strip of several layers of gauze or fabric in the spine to absorb the glue and fill in the cracks so the individual spines are glued. Suggested size: 3 in. x 3.5 in. Print on cover *Four Centuries on Love*. Explain to children this means 4 groups of 100 statements on Love.

## Clay Items



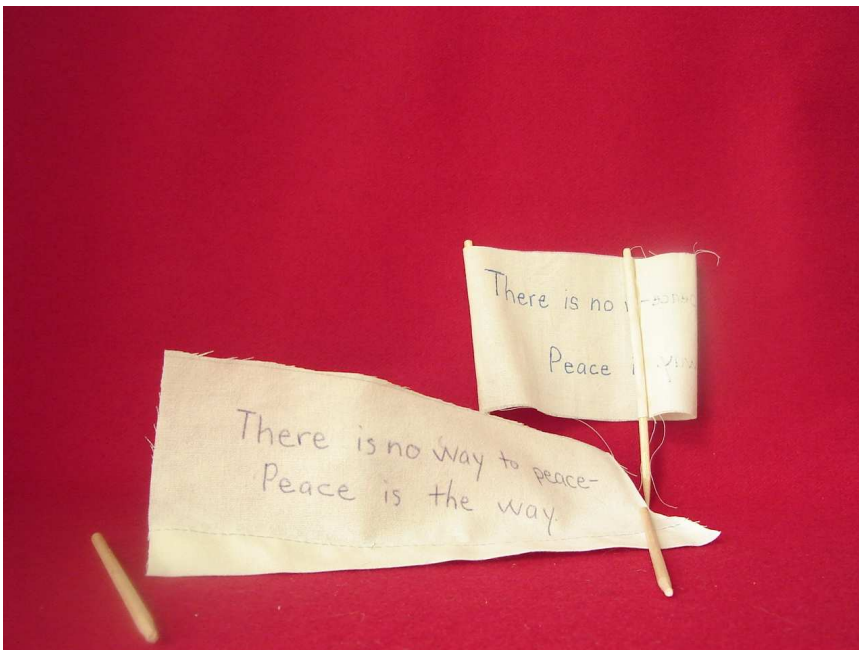
**Mary's wine jug** shape, paint grayish with wine showing  
1 **tomb** with round "stone" door—cube-like (almost tube-like) with a tract for the rolling circular door shut.  
See [www.ebibleteacher.com/imagehtml/ntplaces.html](http://www.ebibleteacher.com/imagehtml/ntplaces.html) > first century tomb

**monastery for St. Boniface** is pictured as made from wood but it can be formed from clay.

## Miscellaneous Items



**Adin Ballou's Pink Penny Postage Stamp** glued to envelop,  
**M. L. King's picture of children in school together**, The Berrigan's  
Burnt files, Conrad Grebel's scroll letter, Fr. McCarthy's white  
Agnus Dei.



For **A. J. Muste's sign** use one skewer cut in half—as if poles holding a cloth sign—pointed end to go into the ground. On approx 3.5 in. x 7 in piece of white cloth write: There is no way to peace—Peace is the way. Glue each 3.5 in. side of cloth to the blunt end of each 4 in. skewer. Keep open until glue and ink are dry.

**Berrigans' Files**—Cut one office file into several mini files. Burn the edges. When “files” are cool, clip together.

**St. Maximilian's tape measure**—use just a portion most of which is rolled up and sewn so it won't unroll completely.

**Conrad Grebel's scroll**: Roll stiff paper-1.5 in. x 3.5 in and tie with ribbon.

**Spiral for Dom Helder Camara**—Perhaps use 1/4 in thick copper “wire” formed into a spiral, or plastic coated wire. Or find a Christmas ornament which is a spiral. Photo is under purchased items for biographies.



(a) close-up



(b) all pieces of censer laid in order





(c) censer on stand

**Fr. George Zabelka's Censer:** See (a) This is made from Bead or Bell Caps—silver or gold in color (14 mm). To that is added 4 mm nickel jump rings and pieces of chain. A second bell cap is used as the cover, held in place with an eye pin from under the cap. The straight end of the pin is cut to size and turned through the last chain link-linking the chain to the censer top. The end of the chain has a jump ring which is attached to the ear ring wire holder, which is bent to form a complete circle (b). These items are in the jewelry section of Craft store and cost under a dollar each. The stand is simply a piece of dowel fitting snugly into drilled hole in disc. A tiny hole is drilled towards the top of the dowel and has an eye pin through it which has been bent into a hook. Make sure the hole is smaller than the head of the pin.

Not pictured is **James and Kathleen McGinnis' peacemaking family photo**—that's your family photo and Leo Tolstoy's calligraphy pen.

### Yellow Folders

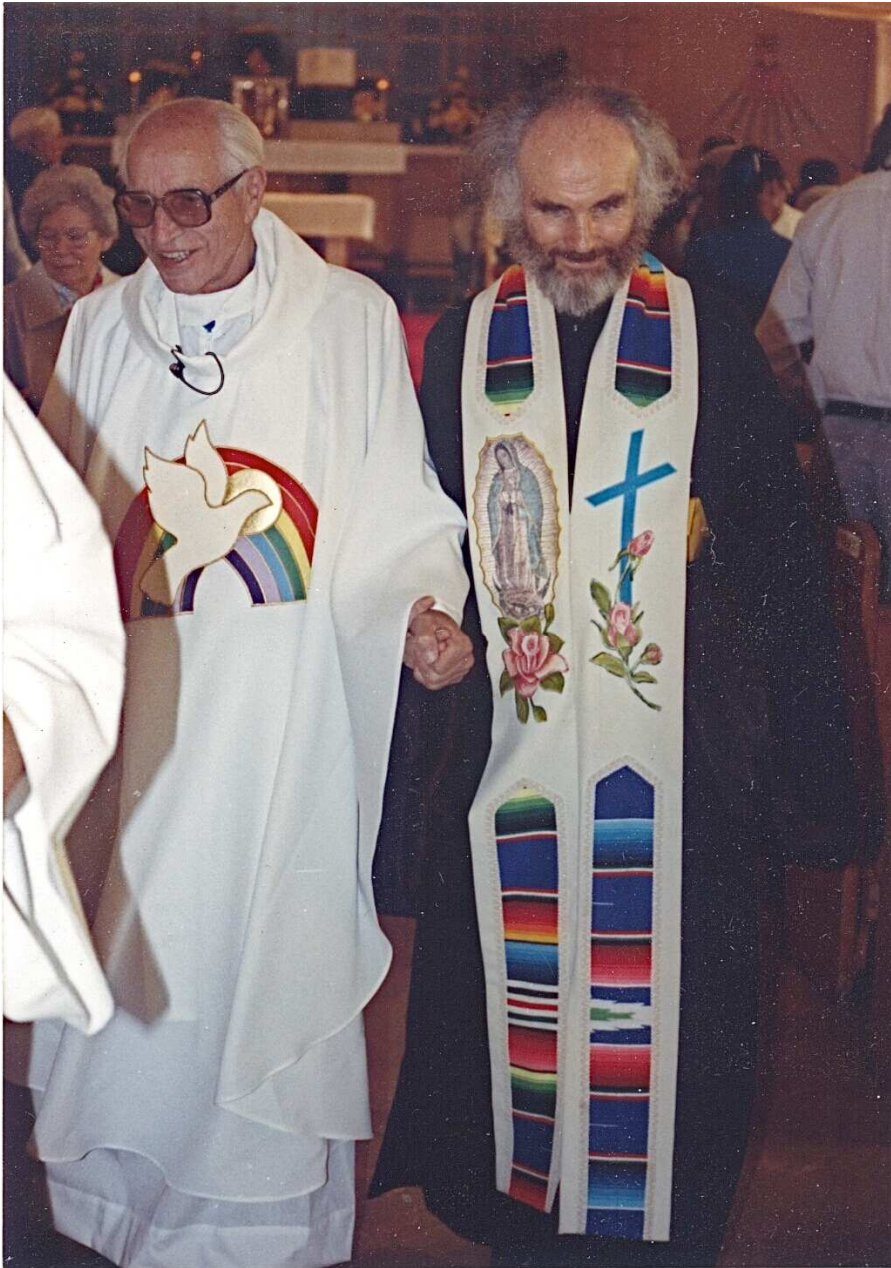
Example of the kinds of article to be placed in yellow folders  
(Print (3) on card stock—one for each folder)

### A Note to the Photo of Fr. George Zabelka, Fr. Charles McCarthy and Gordon Zahn

**This photo of Fr. George Zabelka, Emmanuel Charles McCarthy and Dr. Gordon Zahn was taken on August 9, 1986 at the close of that year's Forty Day Fast for the Truth of Gospel Nonviolence in Waterville, Maine. Henry Gosselin, the most decorated of all Catholic newspaper people in his day (60's, 70's and 80's), who was the editor of the Church World--the Catholic paper for the State of Maine--had printed an article on Gospel Nonviolence each of the six weeks of the Fast, announcing its conclusion at a church in Waterville on August 9. There was a large group present that day. Fr. George concelebrated the closing Mass with Fr. McCarthy. Charlie delivered the homily on the theme "The Works of War or The Works of Mercy," which is available in his book, *AUGUST 9*. Fr. George also planted a "Peace Tree" in the Waterville Park. Gordon was in attendance throughout and had previously contributed an article to the Church World on Franz Jagerstatter, who was martyred on August 9, 1943. Carol Mitchel from Maine, who had participated in several of Charlie's workshops, did all the arranging for the event. The Church World carried the photo and a story on the event the next week.**

(edited email from Fr. McCarthy)





Fr. Zabelka's 50<sup>th</sup> Anniversary of Ordination Mass with Fr. Emmanuel Charles McCarthy

## Metric Measurements

See p. 10 for details.

### TIMELINES

**0-2100** is 2 m 70cm x 46 cm high—12 cm per 100 years; numbers—100, 200, etc. are 3 cm high and place directly above the vertical line.

**1800-2000+** is 2 m 70 cm x 55 cm high—1 m per 100 years; 10 yrs=10 cm. Start vertical red lines 24 cm from left edge; hash marks are 4 cm high for each 10 years and 8 cm high at the 50 year mark. Only the numbers 1800, 1900 and 2000 are written. **This timeline has to correspond with the Life Line sticks.**

**Life Line Sticks** are made from screen bead which is 2 cm (wide)x 7 mm (thick). These sticks must correspond to the size of your 1800-2000+ burlap timeline. This timeline is 2 m 70 cm long. The ten year intervals are 10 cm apart. See photo on page 18.

### In Centimeters

Eberhard Arnold.....	52.5	Muriel Lester .....	85
Emmy Arnold.....	97.5	Peter Maurin .....	73
Adin Ballou.....	88	Fr. Emmanuel McCarthy .....	76.5
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