

# Honors Handbook I - Adventist Youth Leaders

## Introduction

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The Adventist youth (AY) honors were introduced 1928 with the objective of developing the physical, mental, and spiritual capacities of youth and adults. Each honor is designed to be a study that introduces a subject that has practical value, which will enhance the lifestyle of the person pursuing the honor. Honors are considered “windows to be opened in the mode of discovery” within the philosophical framework of the church.

This manual includes all honors currently recognized by the General Conference Youth Ministry department and also those specialized honors recognized by various Divisions. There is a wide selection of challenging honors to interest juniors through adults. Families, Pathfinder clubs, Master Guides and elementary school teachers can use honors as a tool to encourage the exploration of new interests and development of skills.

## Skill Levels

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Each honor is assigned a skill level to guide leaders in selecting grade-appropriateness. Skill levels are divided into Level 1(Grade 5-6), Level 2(Grade 7-10), and Level 3(Grade 11 and above). These levels are recommendations designed to guide leaders in their choice of honors.

## Instructors

Some honors require an instructor. The instructor may be a school teacher or a church or community friend who is qualified to give the necessary guidance to complete the honor. An individual who serves as the instructor for an honor receives a silver diamond pin that may be attached to their honor patch

## Honor Patches

The Conference Youth or Pathfinder Department is the source for honor patches, instructor diamonds, and advanced stars. Your Conference will have an order form and will give you directions on how to order. Patches are usually presented at Investiture or during a church service

## Advanced Honors

Many of the current honors have an advanced level. Over the next several years more advanced honors will be added. Honor patches are marked “advanced” with the addition of a small bronze star

## Master Awards

Master patches are earned by completing selected honors within category. Requirements are listed at the beginning of each section.

## Resources

In past editions, a resources section has been included with each honor. Because of the rapid change in availability of books, you will find the resources listed at the beginning of each section.(ie. Arts, Crafts & Hobbies, Nature, etc.)

## Honor Requirements updates

For the latest information on honor updates and new release go to [www.pathfinders.nadadventist.org](http://www.pathfinders.nadadventist.org)

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to list specific books or addresses will make this Honors Handbook out of date almost before it is printed or with in a very short time. Therefore, the following list of suggestions will help you as you prepare to complete or teach the honors listed in this section.

Adventist Book Center
AdventSource for an answer book for this section
Encyclopedia
Encyclopedia
Encyclopedia of Associations
Government Agencies (City, County, State and Federal)
Hobby/Craft/Specialty/Department Stores
Internet
Libraries-school, church, local city

Magazines & Catalogs

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Nasco Arts & Craft 800-558-9595

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Organizations(ie, Boy Scouts, 4-H)

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Postal Service

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## Artisan Master: Requirements

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Earn seven, Crafts & Hobbies honors

### Airplane Modeling

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1. Build and successfully fly an airplane from a kit made of balsa wood and tissue paper, and rubber band or gas powered.
2. Build a balsa wood glider from a kit and observe its flying characteristics as related to the variable positions of the wings.
3. Make and successfully fly two different styles of airplanes using sheets of paper between eight(20.3cm) and fourteen (35.6cm) inches in width and length.
4. Define, locate and explain the usage of the following basic items:

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a. Fuselage

f. Strut

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b. Wing

g.Cockpit

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c. Aileron

h. Engine

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d. Rudder

i. Landing gear

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Horizontal stabilizer j.Propeller

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### Skill Level 1

Original Honor 1944

### Basketry

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- 1. Know the names of two countries where Rattan (cane) is grown.
- 2. Explain how to treat pitchcane(reed) before weaving.
- 3. What tools would you use for:
- 4. Cane basket making?
  - a. Cane basket making?
  - b. Raffia or Indian basket making
- 5. Define
  - a. Weaver singeing
  - b. Crushing
- 6. Explain how to:
  - a. Mend a broken spoke(stake).

- b. Join a weaving rod(reed)
- 7. Name two kinds of bases used in baskets and tell in which type of basket each one can be used.
- 8. Describe how to lay:
  - a. A footridge border
  - b. A three-rod border
- 9. Do the following P simple weaving, slewing, and bispoking and stitch a raffia base
- 10. Make a came sandwich try with a wood base.
- 11. Make a round hot pad six inches(15.20cm) in diameter in Raffia or Indian basktry.

## **Skill Level2**

Original Honor 1937/Revised 1944

## **Block Printing**

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- 1. List the tools and equipment necessary for block printing
- 2. Write a paragraph on the principles of design and lettering as applied to block printing
- 3. Using a potato, carve a design and lettering as applied to block printing.
- 4. Design and print at least one greeting card.
- 5. Design and print one bookeplate or book cover.
- Going throught the steps of designing, carving and printing, create another original piece of work of your choice.

## **Skill Level2**

Original Honor1945

## **Bread Dough**

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- 1. Make a list of materials and supplies needed for dough artistry.
- 2. Why is it important to have clean hands and use hand lotion while working with bread dough?
- 3. Explain the different techniques of tinting and painting the dough.
- 4. What type of finish do you use t oprotect and give a glossy appearance?
- 5. Make at least two different flowers with leaves and arrange into a container of your choice.
- 6. Make one of the following ujsing tinted dough:
  - a. Sculpture arrangement
  - b. Small wall plaque
- 7. Make one of the following:
  - a. Kitchen refrigerator magnet
  - b. Pin
  - c. Choice of something you would like to make

## **Skill Level 1**

## Cake Decorating

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- 1. List equipment necessary for cake decorating.
- 2. Learn from memory the two cake icings-butter cream and royal and their proper uses. Name one other icing used for frosting.
- 3. Learn and demonstrate proper construction of the decorating tube using parchment, wax paper, or a disposable bag. Show proper method of inserting tip, brushing with color, filling with icing and folding of top. What is the name of the top fold?
- 4. Name three essential steps to good cake decorating.
- 5. Demonstrate pressure control with tubes. Learn the technique and name the proper tip (tube ) used to make the following:
  - a. Star, fill-in and border
  - b. Rosette
  - c. Shell border
  - d. "S" design
  - e. Ribbon
  - f. Zigzag border
  - g. Leaves
- 6. Name four color techniques. Demonstrate two, including two-color icing.
- 7. Learn to make the following flowers:
  - a. Sweet pea
  - b. Rosebud
  - c. Full American beauty rose
  - d. Drop flower
- 8. Demonstrate writing technique using two different tips, including two-color icing.
- 9. Decorate a doll cake or a cake prepared in specialty cake pan using star fill-in method. Use at least two colors to make the design or pattern.
- 10. Make a special occasion cake of your choice using two or more borders of different types and floral arrangement.
- 11. Make a heart cake using borders , florets string work and writing

## Skill Level 2

## Candlemaking

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- 1. Make at least five of the following:
  - a. Free form sand candle
  - b. Layered colored candle
  - c. Candle made in a mold
  - d. Ice candle

- e. Dipped candle
- f. Dribble wax candle
- g. Perfumed candle
- h. Pair of beeswax candles
- i. Floating candle
- j. Candle in a container/jar
- k. Decorated candle
- 2. Know the two kinds of wax used for candle making and their uses.
- 3. Know sizes of wicking and which one will burn properly in each particular candle.
- 4. When should a mental core wick be used?
- 5. Know the safety techniques of candle making.

## Skill Level 1

Original Honor 1972

## Ceramics

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- 1. Tell briefly the history of early ceramics.
- Know what is meant by the following terms:
  - a. Greenware
  - b. Bisque
  - c. Decal
  - d. Kiln
  - e. Glaze
  - f. Slip
  - g. Mender
  - h. Stain
- 3. Explain the use of cones in kilns.
- 4. Know how and when to use underglaze, glaze and stain.
- 5. Know the difference between glaze and food safe glaze.
- 7. Complete two of the following using underglaze on one item, and food safe glaze on the second item:
  - a. Cookie jar
  - b. Pie plate
  - c. Vase
  - d. Flower planter
  - e. Candy dish
  - f. Mug
  - g. Item of your choice
- Note: Candidate need not do the firing.

## Skill Level 2

Original Honor 1956

### Counted Cross-Stitch

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- 1. Have a tote with cross-stitch materials, including at least one hoop, masking tape or Fra-check, needles and scissors.
- 2. What is the difference between cross-stitching, counted cross-stitch and embroidery?
- 3. Know at least four stitches used in counted cross-stitch.
- 4. Cross-stitch a simple object in three different sizes of aida cloth. Mount and label the size and name of aida cloth used, stating how many floss strands are to be used with each.
- 5. Make a counted cross-stitch of a quote with a border and frame it for hanging, using at least three different stitches.
- 6. Make at least 5×7 inches(12.7 x 17.8cm) counted cross-stitch on aida-14 of a nature scene.

## Skill Level 2

Original Honor 1986

### Crocheting

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- 1. Define and crochet the following: ST, SP, STS, RND, INCL, DEC, and INC.
- 2. Make squares of at least 20 stitches of the following: SC, DC, HDC, TR and DTR.
- 3. Show how to measure stitch gauge or row gauge on sample squares.
- 4. Know how to care for items made out of wool, orlon, nylon and cotton.
- 5. know how to make a granny square and show something you have made using a granny square, such as a hat, scarf, pillow cover, etc.
- 6. Show a sample edging you have made out of thread.
- 7. Crochet one of the following out of yarn: hat, scarf, sleeveless sweater or slippers.

## Skill Level 2

Original Honor 1970

### Crocheting, Advanced

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- 1. Have Crocheting Honor.
- 2. Crochet a round doily out of thread.
- 3. Make a fancy hairpin lace for a pillow case or similar object.
- 4. Crochet a sweater (not sleeveless) or baby set.
- 5. Crochet an afghan or a throw rug.

## Skill Level 3

Original Honor 1970

## Currency(Coins)

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- 1. Relate briefly the story of barter, showing three reasons why money came into being and naming at least ten strange forms of money used in place of coins or currency.
- 2. Relate briefly the history of coinage and paper currency in your country, making sure to mention the dates of the establishment of any mints or engraving plants. Also discover some change in the metal composition of a coin, giving any interesting highlights concerning such a change.
- 3. Explain how money is distributed in your country.
- - a. Alloy
  - b. Altered Date
  - c. Buffed Coins
  - d. Cast Coins
  - e. Clad Coinage
  - f. Commemorative
  - g. Die
  - h. Field
  - i. Inscription
  - j. Lettered Edge
  - k. Mint Mark
  - l. Obverse
  - m. Planchet
  - n. Proof
  - o. Reeded Edge
  - p. Reverse
  - q. Series
  - r. Type
  - s. Whizzed Coins
  - t. Wire Edge
- 5. Describe the obverse and reverse for paper money of the six lowest denominations currently in use in your country.
- 6. Know how coins are graded in quality by collectors.
- 7. Collect and mount a type set of coins from your country of any date currently being minted or in circulation. Proof, commemorative, rare, silver, or expensive coins are not needed. In your collection:
  - a. Possess at least one coin from each mint in the type set.
  - b. Locate and identify the mint mark (if any) on each coin
  - Locate and identify the initials(if any) of each coin's designer(s).
- 8. Do two of the following :
  - a. Make enlarged drawings of both sides of ten different denominations or forms of coins for your country no longer in circulation.

- b. Collect, identify, and mount 25 different foreign coins. No two coins alike.
- c. Collect and mount a type set a coins from your country minted during the 20th Century
- d. Collect and mount a date set of series of coins for your country beginning with your birth year.(Commemorative, gold , proof , expensive, or rare coins neednot be included.)

Note: Facts About United States Money (free), Office of the Secretary of the Treasury, U.S Treasury Department, Washington, D.C.20025

Facts about your countrys currency may be obtained from the government treasury department

## Skill Level 2

Original Honor 1945

### Currency (Coins), Advanced

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- 1. Have the Currency (Coins) Honor
- 2. Select a coin or note from your collection and present an oral or written report on the historical or other significance of the person(s), place(s), item(s) or symbol(s) found on both sides.
- 3. What are the laws regarding counterfeiting in your country and what devices are used in your nations currency to prevent it?
- Attend a meeting of a local coin club and report on your experience. Possible items to consider:
  - a. Level of expertise of members as demonstrated by presentations and dialogues.
  - b. Average general age of attendees.
  - c. Ideas which might help the club extend its collector interest to a wider audience.
  - d. How newcomer friendly is the organization.
  - e. Suggestions on how these people might be reached with the gospel through a manner which they would find attractive
- 5. Select one of the three categories of your collection as required under the Currency Honor requirements 7 and 8, and increase your collection to include twice the total number of specimens.
- 6. Add to your collection at least one of the unusual (odd and curious) forms learned about in requirement 1 of the Currency Honor requirements and have in your Currency Honor files, at least a paragraph summarizing how, when and where this item was used as currency.

## Skill Level 3

Original Honor 1998

### Decoupage

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- 1. Give the meaning and history of decoupage
- 2. Make a list of the materials and equipment needed in decoupage.
- 3. Describe how to prepare a wood or metal object for decoupage.
- 4. Describe three ways in which a print may be used in decoupage.
- 5. Use the basic steps in completing two of the following objects:
  - a. Modpodge print
  - b. Keyring

- c. Bookends
- d. Bottle
- e. Tissue box
- f. Reasonable

## Skill Level 1

Original Honor 1975

## Drawing and Painting

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- 1. Make a freehand sketch of an animal, showing in values the distribution of color.
- Draw a cylindrical object and a rectangular object grouped together a little below the eye, showing proper perspective, light and shade.
- 4. Make a drawing of some landscape near your home.
- 5. Paint in color a flower or leaf spray.
- 6. Paint an outdoor scene in either water color or oil.

## Skill Level 2

Original Honor 1929

- 1. From what fiber is felt made? What gives it its tensile strength?
- 2. List 15 uses of felt.
- 3. Give three reasons why felt manufacture.
- 4. List the essential steps in felt manufacture.
- 5. Make two of the following, using at least two different colors of felt:
  - a. Pannat
  - b. Bookmark
  - c. Refrigerator magnet
  - d. Needle case
  - e. Similar item
- 6. Make one of the following, using at least four different colors of felt:
  - a. Small wall mural
  - b. Holiday decoration
  - c. Hand puppet
  - d. Kitchen knick-knack
- 7. Make one of the following, using sewing:
  - a. Stuffed animal
  - b. Stuffed toy
  - c. Tote bag
  - d. Bean bag

## Skill Level 1

Original Honor 1956

### Flower Arrangement

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- 1. Name six perennials and six annuals suitable for indoor flower arrangement.
- 2. Name at list three flowers that bloom in the spring or early summer suitable for indoor flower arrangement.
- 3. Name at least three flowers that do not keep well when cut , and three that do.
- 4. Give six suggestions regrading the cutting of flowers and their aftercare, such as when to cut how to cut and how to keep
- 5. At what state of development should roses, gladiolus, and dahlias be cut?
- 6. Give three suggestions onthe relatio nof containers to flowers used and three on the reation of arrangement to the room and furnishings.
- 7. In flower arrangement, what should be the relation of dark and light shades, large and small flowers open and partly open flowers?
- 8. Make two artistic flower arrangements in each of the following areas:(Fresh or silk flowes may be used.)
  - a. Table decoration
  - b. General house use
  - c. Public service
- What are some wild flowers that could be used in arrangements for the home? What combinations of these flowers can be used?

## Skill Level 2

Original Honor 1938

### Glass Craft

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- 1. Name te nkinds of glass.
- 2. Know what kind of glass is used for furniture, cloth insulation, airplanes and automobiles
- 3. Prepare at least thre colors of glass for picture making
- 4. Know the steps in making a picture with glass, and complete such a picture, using at least the colors.
- 5. Write a 300-word report or give a three-minute oral report on the history of glass and how glass is made.

## Skill Level 1

Original Honor 1970

### Glass Painting

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- 1. Know the primary colors, the seconddary colors and how to mix the primary colors to obtain the secondary colors.

- 2. Know the materials used in painting, mounting and hanging a glass painting.
- 3. Make and display a glass painting for each of the following designs: animal, flower, and landscape or seascape.
- 4. Make a silhouette painting and mount for hanging.
- 5. Make a hand painted mirror picture by removing the back coating of the mirror from the picture area and painting the design on the back of the mirror glass.

## Skill Level 1

Original Honor 1983

## Knitting

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- 1. Define the following:
  - a. K
  - b. P
  - c. STS
  - d. RND
  - e. TOG
  - f. PSSO
  - g. INC
  - h. DEC
  - i. YO
- 2. Demonstrate the following:
  - a. Cast on
  - b. Bind off
  - c. bind off
  - d. Ribbing
  - e. Grater stitch
  - f. Stockinette stitch
  - g. Pick up a dropped stitch
- 3. Know how to care for these kinds of yarn:
  - a. Wool
  - b. Hair
  - c. Synthetic
- 4. Show how to join on a new ball of yarn.
- 5. Identify and know the purpose of the following weights of yarn:
  - a. Medium
  - b. Sports
  - c. Heavey
  - d. Bulky

- 6. Knit two items from the following:
  - a. Slippers
  - b. Mittens
  - c. Baby booties
  - d. Hat
  - e. Scarf
  - f. Sleeveless sweater
  - g. Reasonable choice

## **Skill Level 2**

Original Honor 1970

### **Knitting, Advanced**

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- 1. Have the knitting Honor.
- 2. Knit a pair of argyle or patterned socks, gloves, or some other article, using four needles and yarn bobbins.
- 3. Knit an afghan or baby blanket.
- 4. Knit a sweater with long sleeves or a baby set of sweater, bonnet and booties.

## **Skill Level 3**

Original Honor 1970

### **Leather Craft**

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- 1. List the necessary tools a beginner needs in leather craft and demonstrate the proper use of each.
- 2. Know to distinguish different kinds of leather, such as calf, goat, and imitation leather. What leathers are most suitable for tooling?
- 3. Give the steps necessary in the preparation of leather
- 4. Transfer a design to leather, and tool and lace some object in leather, such as a billfold, magazine cover, belt, key keeper or small purse
- 5. Show how to use leather dye.
- 6. What kind of finish should be used on leather?

## **Skill Level 1**

Original Honor 1937

### **Leather Craft, Advanced**

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- 1. Have the Leather Craft Honor.
- 2. Show how to punch holes, set snaps, do saddle stitching and do two types of lacing.
- 3. Make sheath for a hatchet, knife or ax.

- 4. Complete a figure-carved belt, doing your own tooling.
- 5. From your own design, cut from leather, tool, punch and lace a project such as a case, purse, bag, or an equivalent.

## **Skill Level 2**

Original Honor 1977

### **Lettering and Poster Making**

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- 1. Write from memory the complete lower case alphabet in two of the following: Gothic, Roman or Italic
- 2. Demonstrate when the different sizes and types of pens are to be used.
- 3. State at least four principles in making a poster attractive and distinctive. Know how to make correct margins for the size of paper you are using.
- 4. Make three posters in a variety of sizes to be used by any of the following groups: Sabbath School, church, school, Pathfinder Club, or AY Society. Use at least two different types of lettering in these posters.
- 5. Make five additional posters on topics of your own choice. These posters will be judged for acceptance on the following three conditions:
  - a. Arrangement
  - b. Neatness
  - c. Selection in type of lettering used.
- 6. Practice all strokes until they can be done smoothly and accurately.

## **Skill Level 2**

Original Honor 1933

### **Macrame**

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- 1. Give a brief history of the art of decorative knotting.
- 2. What is a good macram cord?
- 3. Know three kinds of cords that are good and why are good.
- 4. Know the basic knots used in macram. Know two variations of each of these knots.
- 5. How is the overhand knot useful in macram?
- 6. How much cord is needed to reach the desired length of the finished product?
- 7. Make a sampler wall hanging using the essential knots and using at least two variations, such as the horizontal half-hitch, vertical half-hitch, or the half knot.
- 8. Make two other items of your choice using the square knot, the double half-hitch, and two variations of either or both items.

## **Skill Level 1**

Original Honor 1975

### **Metal Craft**

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- 1. Name the various metals that can be used in metal craft.
  - 2. Complete one project using metal foil tooling. Complete the project by antiquing and framing.
  - 3. complete one project using metal punch.
  - 4. Complete one project using drilling , riveting, and bending of metal such as a simple candle holder.
  - Demonstrate properly the use of the following:
    - a. Tin Snips
    - b. Pop rivet
    - c. Electric drill
    - d. Metal file

## **Skill Level 2**

Original Honor 1937

## **Model Boats**

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- 1. Do two of the following:
  - a. Purchase and build one kit for a sailboat 10-15 inches(25.4 to 38.1cm) long and about four to five inches wide and operate boat on the water for at least two minutes.
  - b. Build a model boat with an electric motor from your own plans or from a kit, size 10 to 18 inches(25.4 to 45.2cm) and operate the boat for three to five minutes.
  - c. Build a model boat 18 to 30 inches (45.7 to 76.2cm) long from your own plans or from a kit. Install a small bore internal combustion engine .029 or .049 and operate for at least two successful runs of three to five minutes each. Record in writing the operating characteristics of the model and state what you did to improve its performance.
- 2. Identify and define these words:
  - a. Displacement
  - b. Center of gravity
  - c. Propeller pitch
  - d. Thrust and lift
  - e. Mono hull
  - f. Hydro
  - g. Bow
  - h. Keel
  - i. Transom
  - j. Cavitation
  - k. Heeling
  - l. Planning
  - m. Drag

## **Skill Level 2**

Original Honor 1991

## Model Cars

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- 1. Build at least one plastic model car from the parts supplied in a kit. Car must be stock in every respect.
- 2. Build a second car using extra accessories included in the kit or create alterations using putty and /or parts from other kits. (Decals dont). Include paint job.
- 3. Write or give orally a report on the history of automobiles, Be sure to include interesting steps in the development process such as notes on engine sizes, auto matic transmissions, powe steering, computerized controls, etc.

## Skill Level 1

Original Honor 1998

## Model Railroading

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- 1. Give the history and development of model railroading.
- 2. Tell the difference in how the following prototype motive power units operate:
  - a. Steam
  - b. Diesel
  - c. Electric
- 3. Know the name, scale and track gauge for four model railroad gauges.
- 4. Know the shapes and names of at least eight track plan arrangements.
- 5. Know at least six points to check for the maintenance of a model railroading layout
- 6. Identify and explain the use of:
  - a. Five types of freight cars
  - b. Three types of passenger cars
  - c. Three types of steam engines according to their wheel arrangement
  - d. Two types of grade crossing warning devices
  - e. Two types of railroad signals
  - f. Five types of railroad-related buildings or structures
- 7. Know the meaning of the following model railroad terms:

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a. Ballast

s. Mainline

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b. Blind drivers

t. Prototype

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c. Block

u. Rail Joiner

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d. Bolster

v. Reverse loop

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e. Crossing

w. Siding

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f. Crossover

x. Spur

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g. Double header

y. Switch

h. Draft gear	z. Machine
i. Flange	aa. Talgo truck
j. Frog	bb. Truck
k. Gap	cc. Turnout
l. Gauge	dd. Two rail
m. Grade	ee. Wye
n. Gravity yard	ff. Y switch
o. Hot box	gg. Yard
p. Insulated rail joiner	
q. Journal	
r. Layout	

- 8. Construct a portion of a model railroad layout. In your construction, do the following:
  - a. Assist in assembling the framework
  - b. Install a section of ballast
  - c. Install a section of track
  - d. Install at least one turnout, including the wiring
  - e. Assist in making scenery, such as trees, rocks, mountains or grass
  - Make one model railroading building or structure
  - Assist in the wiring to supply electrical power to the tracks
- 9. Successfully operate a model railroad train on the layout you have assisted in building.

## Skill Level 2

Original Honor 1967

## Model Rocketry

(Instructor Required)

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- 1. Know and explain the Model rocketry Safety Code.
  - 2. Know and explain the importance of the basic model rocket components.
  - Draw the following:
    - a. The steps in the flight of a model rocket
    - b. A cut-a-way view of a model rocket engine, labeling each part
    - c. A schematic plan for a simple launch system using proper electrical symbols
  - 4. Define the following:
    - a. Wadding
    - b. Boost gliders
    - c. Stall

- d. payload
- e. Apogee
- f. Center of gravity
- g. Center of pressure
- h. Impulse
- i. Velocity
- j. Ejection
- 5. Name and described at least four different recovery systems.
- 6. From a kit, build finish and paint a single-stage rocket that has a minimum length of six inches with a recovery system, such as a parachute or streamer. Successfully launch and recover the rocket with the recovery system depoloying propoerly.
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## Skill Level 1

Original Honor 1970

### Model Rocketry, Advanced

(Instructor Required)

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- 1. Have the Model Rocketry Honor.
- 2. From a kit, build, successfully launch, and recover a boos glider.
- 3. Design, build(not from a kit), finish and paint a single stage rocket. Check for stability and successfully lanuch and recover this rocket.
- 4. Do one of the following:
  - a. From a kit build, finish and paint a two-stage rocket. Successfully launch and recover this rocket.
  - b. From a kit , build finish and paint a three engine clustered single-stage rockt. Successfully launch rockets at least five times.
- 5. Design an electrical launch system. When this has been approved by your instructor, buld this sytem and use it to lanuch rockets at least five times.
- 6. Describe alnd demonstrate sigle station altitude tracking. With the aid of a helper, track the same rocket threetimes using three different size of engines andcompare altitudes withan altitude finder.
- 7. Compare the velocity and altitude of two different weights of rockets using the same sizseengine.

## Skill Level 2

Original Honor 1970

### Music

(Instructor Required)

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- 1. Play or sing a scale and know its composition.
- 2. Write a scale in both treble andbass clef.

- 3. Know a half-tone, a whole tone, a third, a fifth and an octave.
- 4. Distinguish a march from a waltz and give the time of each.
- 5. What is quarter note? A half note? Draw the symbols of each.
- 6. Name five great composers and one composition of each, including an oratorio, a piano composition, and a song.
- 7. Play with or without music or sing from memory 15 hymns (one verse or stanza each) and / or other sacred songs or choruses and list the composer of each.
- 8. Play or sing from memory one piece of good music other than those used in #7.
- 9. Do one of the following:
  - a. For instrumentalists, be able to sight-read and play a moderately difficult piece of music. Explain all signs and terms in it.
  - b. For singers, show with baton or arm how to lead a group in singing compositions written in 3/4 and 4/4 time.
- 10. Define orchestra and name at least five instruments in an orchestra.
- 11. Do a biographical sketch on a famous hymn writer and orally present it to a group.

## Skill Level 2

Original Honor 1929

## Needle Craft

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- 1. Do two of the following:
  - a. Embroider one of the following : dresser scarf , pair of pillowcases, luncheon cloth, or other equivalent article.
  - b. Make a pillow cover or wall hanging, a set of four sachet pillows, or three tree ornaments out of any of the following methods:
    - (1) Punch embroidery
    - (2) Candlewicking
    - (3) Crewel
  - c. Make a pillow cover, wall hanging: cover for chair, footstool, or piano bench in needlepoint or counted cross stitch.
  - d. Make an article using any of the following methods:
    - (1) Applique
    - (2) Fagoting
    - (3) Smocking
    - (4) Shirring
    - (5) Swedish weaving on linen or huck toweling
- 2. Show article you have made, using ten of the following stitches:
  - a. Back
  - b. Blanket
  - c. Braid
  - d. Buttonhole

- e. Roman
  - f. Chain
  - g. Cross
  - h. Feather
  - i. Fishbone Stem
  - j. French knot
  - k. Heavy chain
  - l. Herringbone
  - m. Lazy daisy
  - n. Long and short
  - o. Outline
  - p. Running
  - q. Satin
  - r Split
  - s. Star filling
  - t. Stem
  - u. Whipping
- 3. Show the correct way of gathering lace and whipping it to hemmed edge.
  - 4. Describe a satisfactory method of keeping your fancy-work equipment in good condition.