



Full-Size Scroll Saw Patterns

TOY DRAGONS, KNIGHTS & FAIR MAIDENS



**John W. Lewman
Cynthia A. Lewman**

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Cynthia A. Lewman**



Toymaker Press is dedicated to providing you with the information and ideas you need to develop your skills as a toymaker. We welcome your comments and any suggestions about this collection of toy plans.

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TOY DRAGONS, KNIGHTS AND FAIR MAIDENS
FULL-SIZE SCROLL SAW PATTERNS

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First Edition
Printed in China

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Toymaker Press, Inc.
Shawnee, KS 66216
www.toymakerpress.com

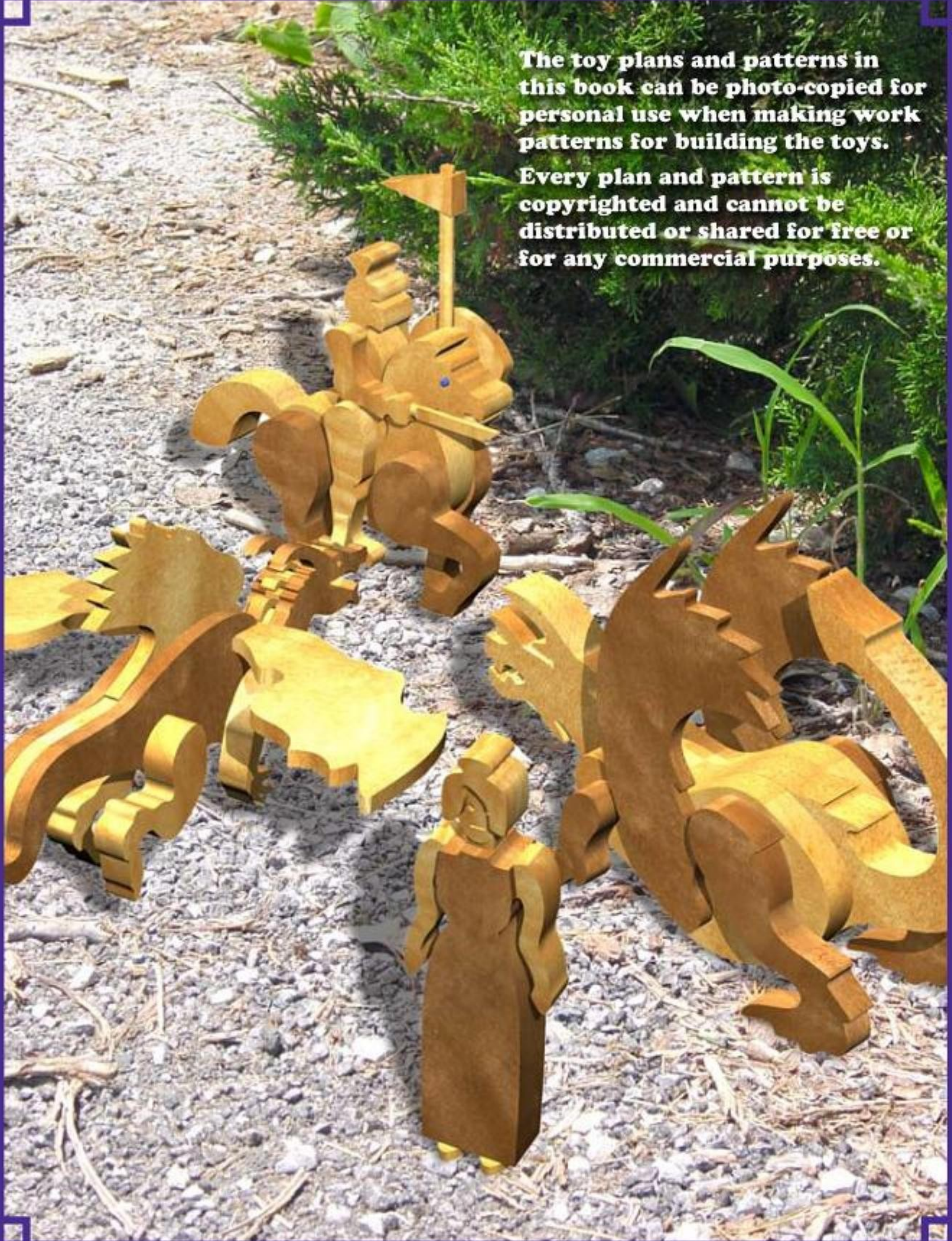


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Toy Dragons, Knights and Fair Maidens



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The toy plans and patterns in this book can be photo-copied for personal use when making work patterns for building the toys.

Every plan and pattern is copyrighted and cannot be distributed or shared for free or for any commercial purposes.

Toymaking Tips

Setting Up a Basic Toymaker Shop

All you need to get started is a scroll saw. Add to that a small drill press or electric hand drill and you have all the power tools you need to become a toy wizard.

Purchase your wood at your local home improvement store, hardware store or crafts store. A bottle of woodworker's adhesive (glue), a pack of sandpaper and some small jars of non-toxic paint will complete your list. If

your workspace is limited you can assemble a temporary setup to make toys on your kitchen table.

It is a good idea to keep a vacuum cleaner handy to pick up sawdust as you work. The cuts don't create a lot of waste material but vacuuming sawdust as you build insures a clean, professionally built toy. This will also keep sawdust out of freshly glued surfaces.



Toys built from our toy plans and patterns are royalty-free. You can build as many toys as you like for either personal or commercial purposes.

These dynamic medieval toys are designed for simplicity when shaping and for quick, easy assembly. You'll be thrilled with the results.

Gathering Materials and Supplies

Most home improvement and crafts stores will have everything you need to get started. Purchase woodworker's glue, sandpaper at 100 and 200 grit, and wood to begin with. The toys are constructed from the lighter woods like spruce, white pine and poplar.

Lumber is commonly available in 1/8", 1/4", 1/2" and 3/4" thicknesses.

The thinner toy detailed parts require 1/8" and 1/4" thicknesses which can be sawn from a thicker piece of wood or purchased at these dimensions. Ask for solid core or Danish plywood laminates from your local crafts

store. The toys are designed using these readily available materials and supplies.

Decorate the toys with non-toxic paints and stains or you can use vegetable based dyes.

Crafts stores offer a selection of exciting and safe non-toxic colors. Small containers of paint will often coat several toys.

Applying Patterns to the Wood

The plans in this book are complete with full size drawings for every part.



We recommend photo copying the scroll saw patterns in the book for each toy pattern that you require.

Rough cut the paper patterns out with scissors then apply the pattern to the wood with spray adhesive. Details on how to apply patterns are found with each full-size scroll saw pattern set.

Cutting Parts with a Scroll Saw

Each part is shaped with scroll saw cuts only. You'll find a lot of good suggestions in the Operator's Manuals that are packaged with your tools. Please review the Operator's Manuals often as a reminder to practice safe and responsible crafting.

Gluing Parts Into Assemblies

A thin layer of woodworker's glue is applied to each toy part. The gluing surface of each part to be glued together must be covered evenly with glue. Press the parts together tightly.

Set the assembly aside until the glue has dried. Most woodworking glues dry completely in a few minutes. Details on how to glue the toy parts are found with each full size scroll saw pattern set in the book.

Sanding Parts to Shape

The edges of each toy can be rounded for a finished look and gives the toy a soft, smooth feel when the toy is played with. A rounded edge also prevents splintering and minimizes damage to the toy if dropped. Edges are rounded by folding a sheet of 100 grit sandpaper into a small pad and by sanding each edge vigorously for the desired

roundness. If a beveled edge is preferred wrap the sandpaper around a small flat piece of wood. Files are also useful for smoothing edges and for adding details to finished toys.

Applying Final Touches to the Toy

After the parts are glued together and the glue is dry, lightly apply one coat of non-toxic paint to the assembled toy as a first-coat primer.

The first coat of paint will appear a little rough or spotty because the moisture from the paint causes the grain of the wood to swell. Make sure the paint is thoroughly dry then sand the first coat, applying at least 2 more coats of paint for a professional finish.

With planning you can make several of the dragons, knights and fair maidens in a few hours. By using common lumber to keep your costs low you can easily build within your budget.

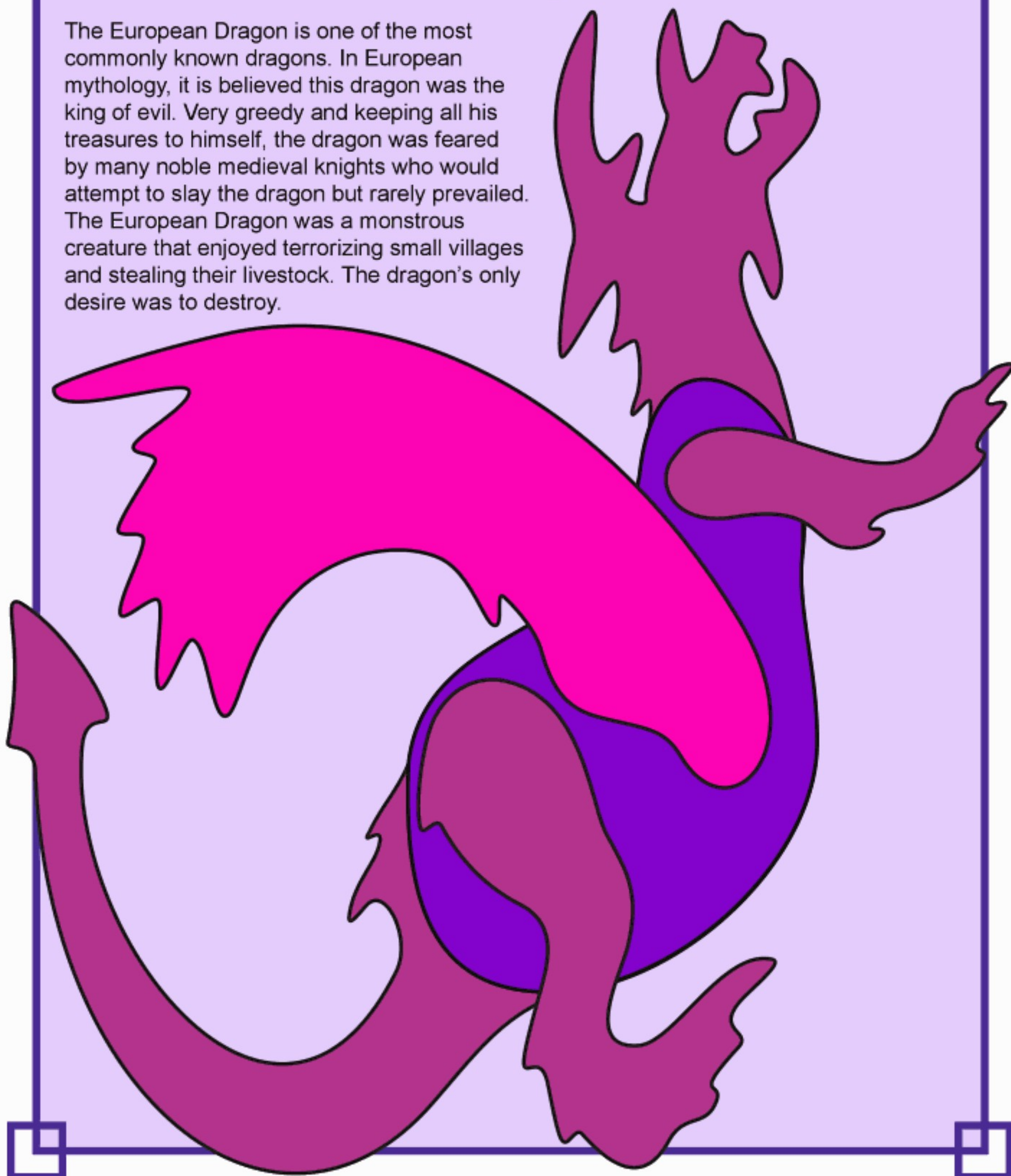




EUROPEAN DRAGON

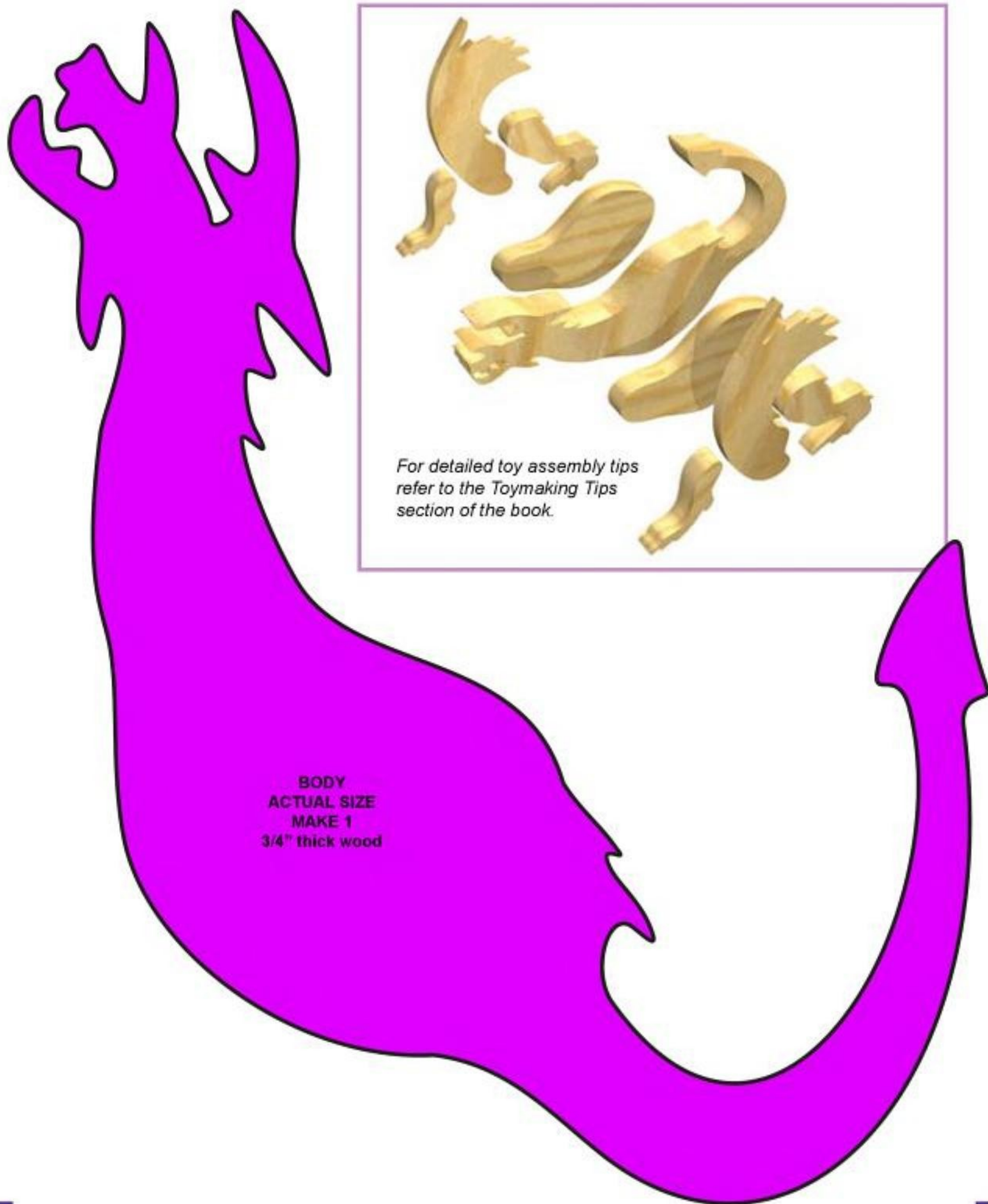
scroll saw pattern

The European Dragon is one of the most commonly known dragons. In European mythology, it is believed this dragon was the king of evil. Very greedy and keeping all his treasures to himself, the dragon was feared by many noble medieval knights who would attempt to slay the dragon but rarely prevailed. The European Dragon was a monstrous creature that enjoyed terrorizing small villages and stealing their livestock. The dragon's only desire was to destroy.



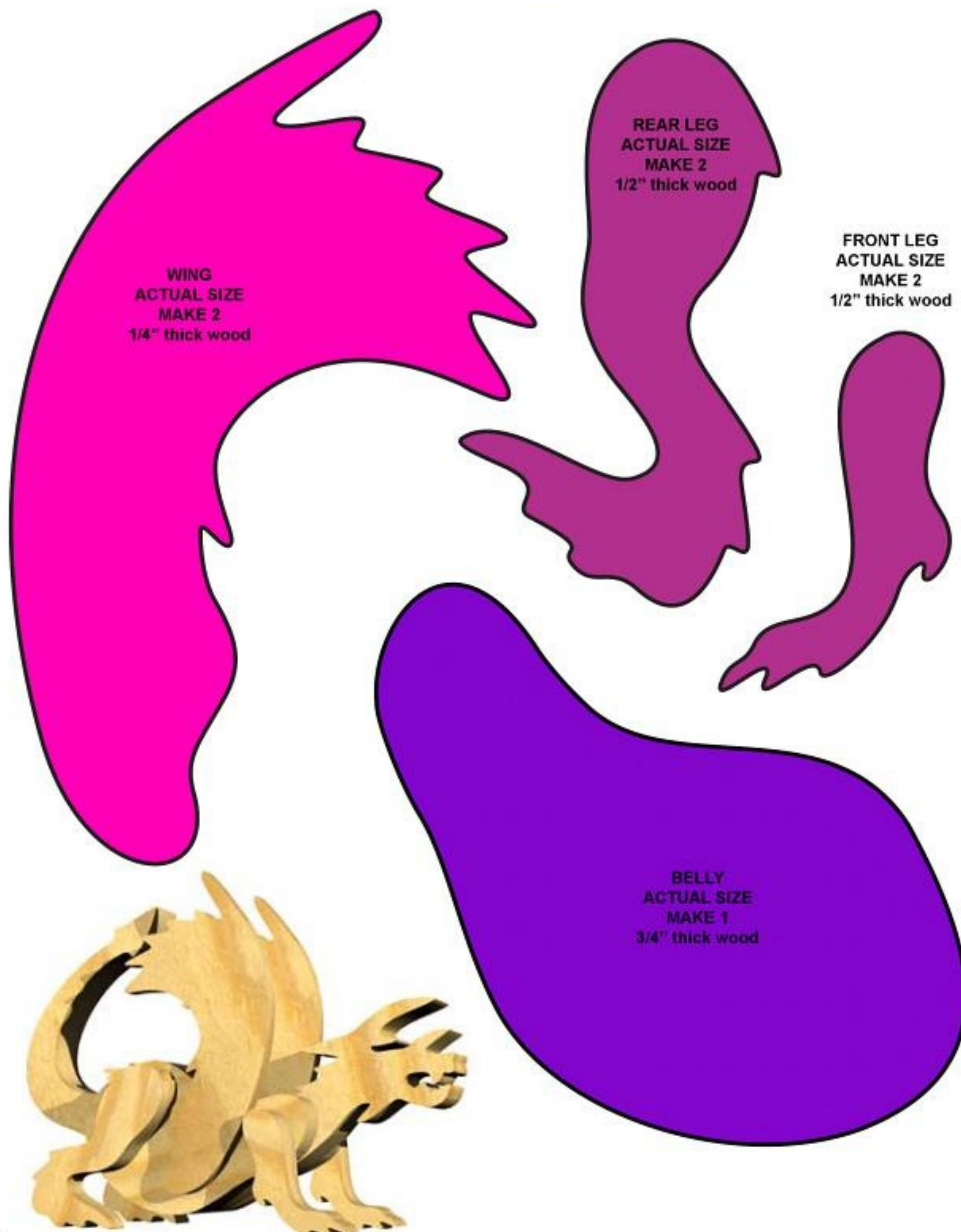
EUROPEAN DRAGON

scroll saw pattern



EUROPEAN DRAGON

scroll saw pattern



EUROPEAN DRAGON

scroll saw pattern

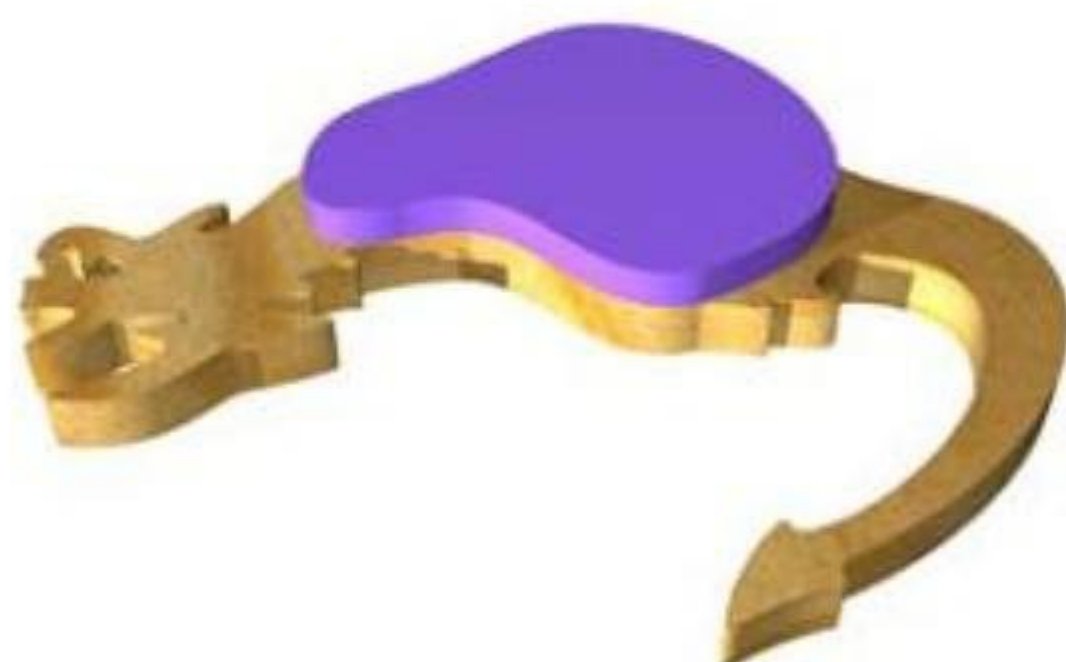
1. Apply a thin, even coat of spray mount to toy pattern. Let the glue dry to a tacky state before applying pattern to the wood. Press onto wood.



2. Carefully cut out pattern with your scroll saw. Repeat Steps 1 and 2 for all body parts. Sand lightly with 100 grit sandpaper to soften edges.



3. Apply glue to the contact surface of one belly. Press part down and slide around on the body to spread glue evenly. Press firmly into place. Let glue dry thoroughly before proceeding to next step.



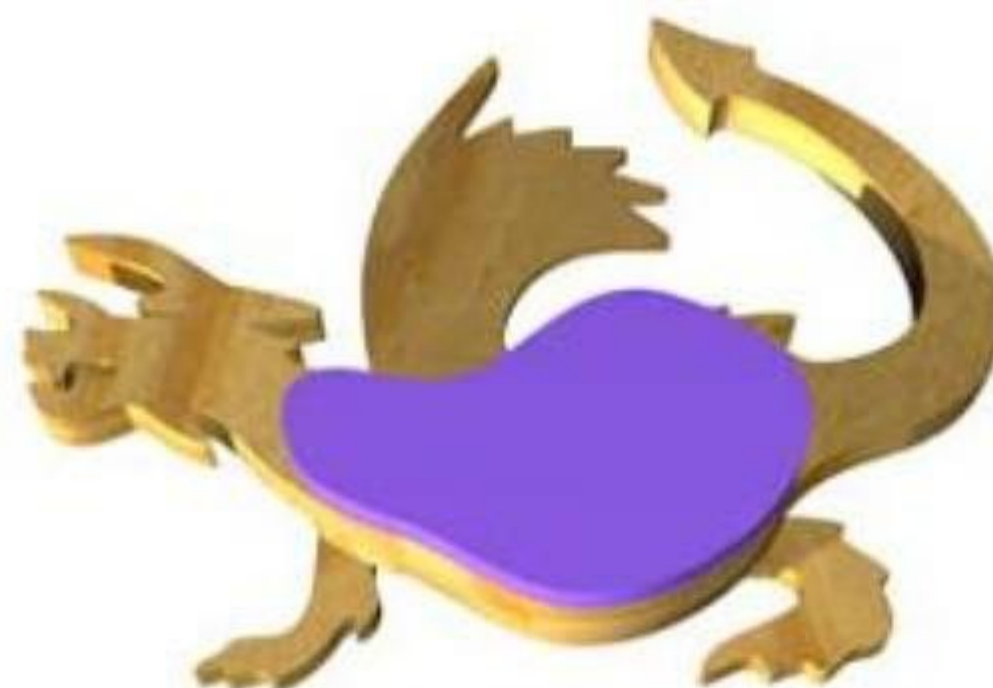
4. Repeat Step 3 to attach the front and rear legs to the belly. Align bottom of feet evenly with the table top to level. Squeeze legs onto body and hold in place against table top until glue sets up.



5. Repeat Step 3 to attach one wing to the belly. Squeeze wing onto belly and hold in place until glue sets up.



6. Repeat Step 3 to attach the second belly to the opposite side of the body. Squeeze belly onto body and hold in place until glue sets up.



EUROPEAN DRAGON

scroll saw pattern

7. Repeat Step 3 to attach the second front and rear legs to the belly. Align bottom of feet evenly with the table top to level. Squeeze legs onto belly and hold in place against table top to level toy until glue sets up.



8. Repeat Step 3 to attach the second wing to the belly. Squeeze wing onto belly and hold in place until glue sets up.



The European Dragon looks great both painted and unpainted. For painting first apply 3 coats water based enamel, sanding between coats lightly with 200 grit paper.



FROST DRAGON

scroll saw pattern

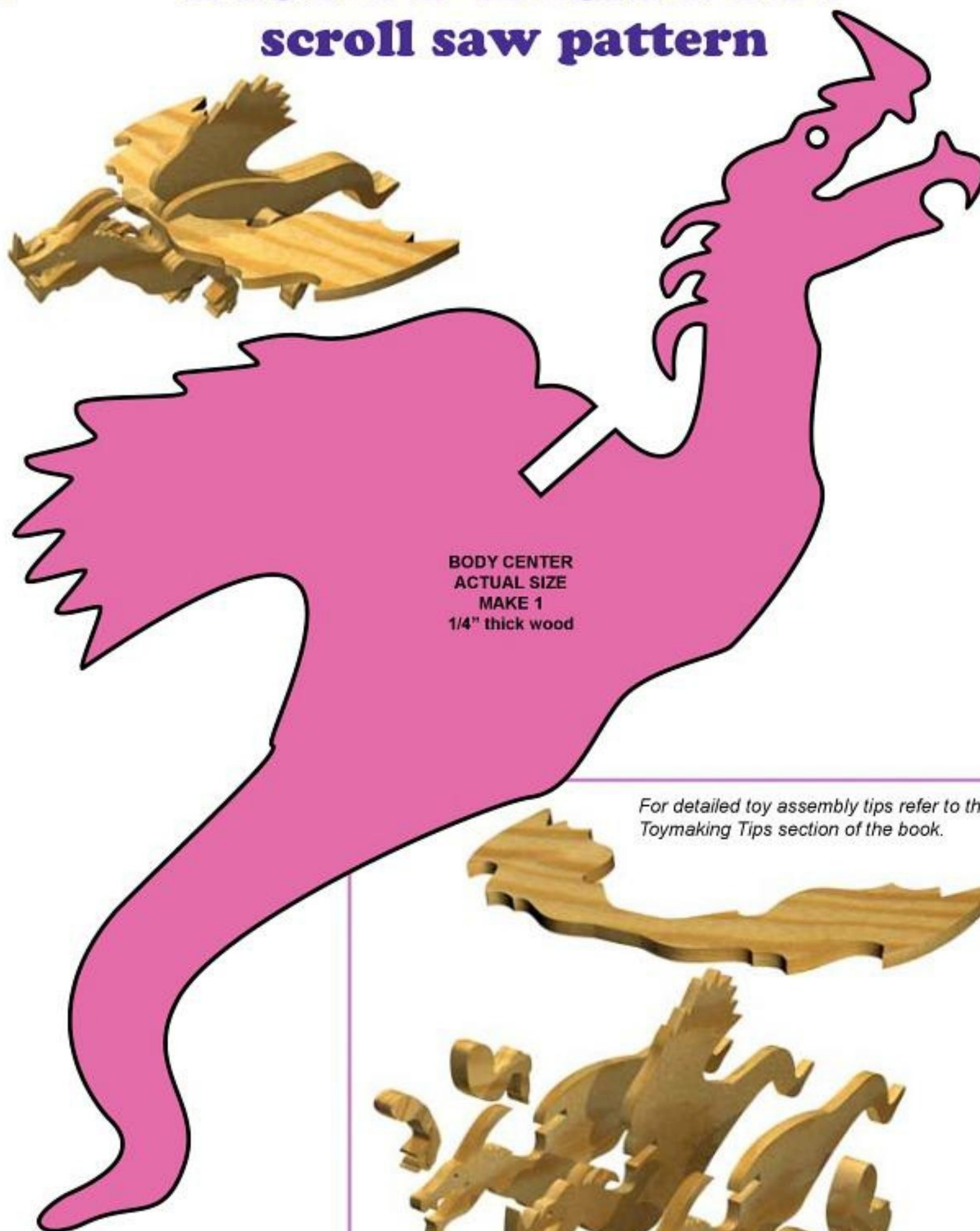
Among the smallest and least intelligent of the dragons, Frost Dragons were mainly wild predators. Frost Dragons were named for their "frosted glass" appearance. Coloring varied from dragon to dragon, mostly in pale shades of blue, lavender, and silvery-white. They could breathe a stream of super-cooled moist air from their mouths, which immediately solidified into pure ice. Their claws enabled them to cling to any icy or slick surface with ease.



FROST
DRAGON TOY
ACTUAL SIZE

FROST DRAGON

scroll saw pattern



*For detailed toy assembly tips refer to the
Toymaking Tips section of the book.*

FROST DRAGON

scroll saw pattern

WING
ACTUAL SIZE
MAKE 1
1/4" thick wood

FRONT LEG
ACTUAL SIZE
MAKE 2
1/2" thick wood

REAR LEG
ACTUAL SIZE
MAKE 2
1/2" thick wood

BODY SIDE
ACTUAL SIZE
MAKE 2
1/4" thick wood

FROST DRAGON

scroll saw pattern

1. Apply a thin, even coat of spray mount to toy pattern. Let the glue dry to a tacky state before applying pattern to the wood. Press onto wood.



2. Carefully cut out pattern with your scroll saw. Repeat Steps 1 and 2 for all body parts. Sand lightly with 100 grit sandpaper to soften edges.



3. Apply glue to the contact surface of one body side. Press part down and slide around on the body center to spread glue evenly. Press firmly into place. Let glue dry thoroughly before proceeding to next step.



4. Repeat Step 3 to attach the front and rear legs to the body side. Align bottom of feet evenly with the table top to level. Squeeze legs onto body and hold in place against table top until glue sets up.



5. Repeat Step 3 to attach the second body side to the opposite side. Squeeze body side onto body center and hold in place until glue sets up.



6. Repeat Step 4 to attach the front and rear legs to the body side. Align feet evenly with the table top to level. Squeeze legs onto body and hold in place until glue sets up.



FROST DRAGON

scroll saw pattern



7. Apply glue to the small surface on the wing and in the notch on the back of the dragon body. Slide wing into notch and carefully wipe excess glue from the parts. Hold wing firmly against body until glue sets up. Let glue dry thoroughly before proceeding to painting or staining the completed toy.



LINDWORM DRAGON

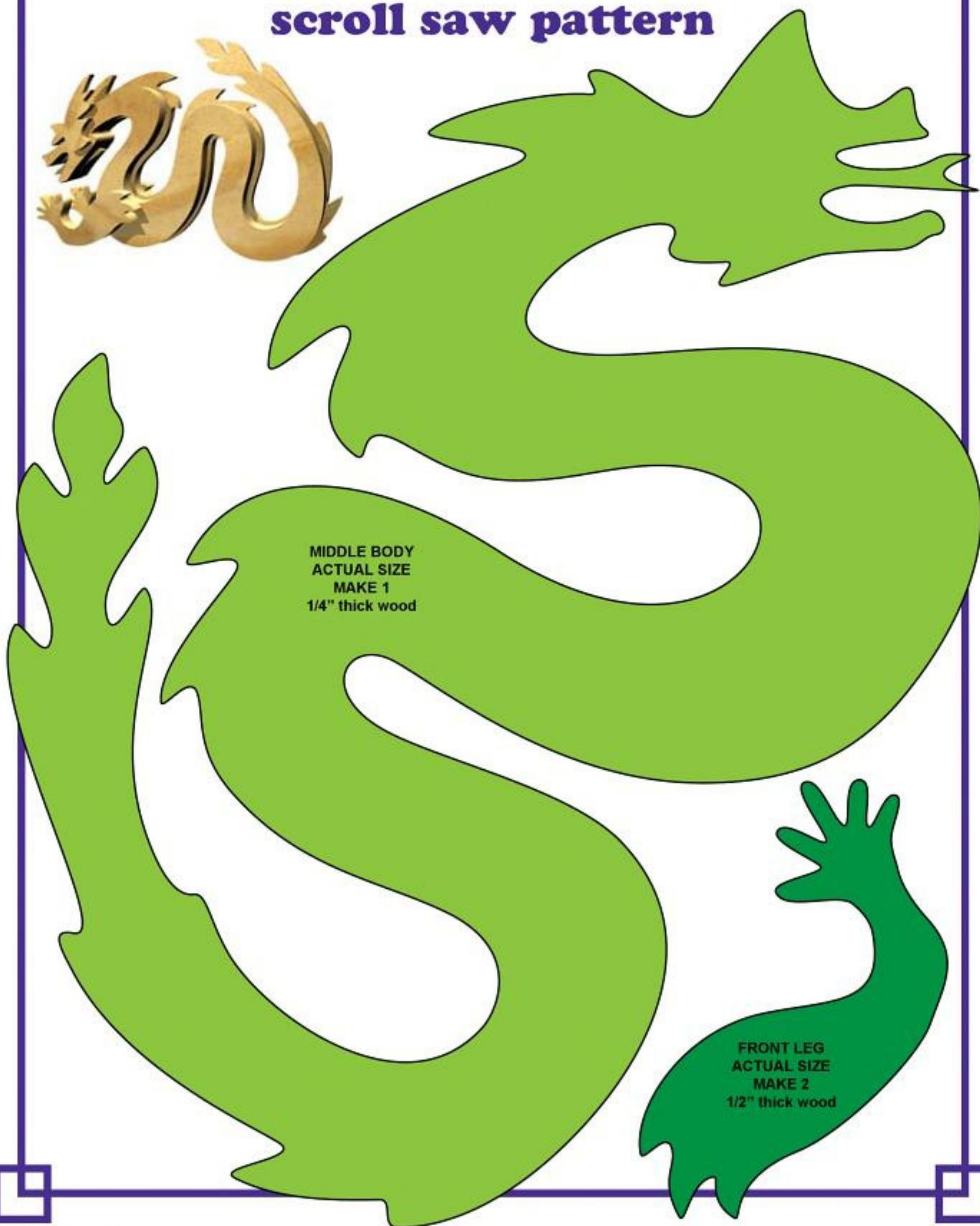
scroll saw pattern

LINDWORM
DRAGON TOY
ACTUAL SIZE

The belief in the reality of a Lindworm, a giant limbless serpent, was shared in many European countries. It was a wingless, serpent like, monstrous snake dragon often with a poisonous bite. The sighting of a Lindworm once was thought to be an exceptional sign of good luck.

LINDWORM DRAGON

scroll saw pattern



MIDDLE BODY
ACTUAL SIZE
MAKE 1
1/4" thick wood

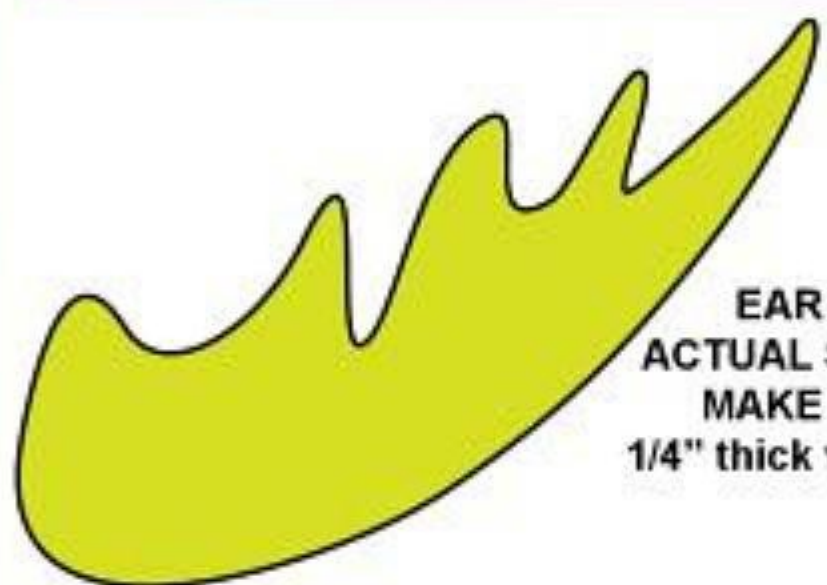
FRONT LEG
ACTUAL SIZE
MAKE 2
1/2" thick wood

LINDWORM DRAGON

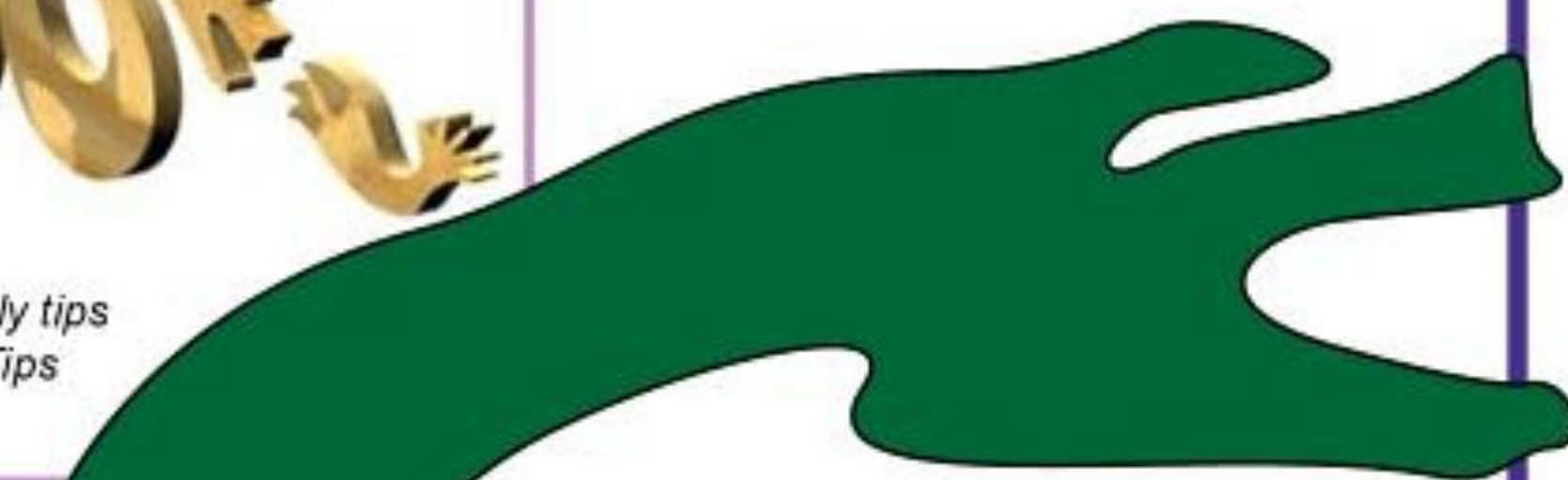
scroll saw pattern



For detailed toy assembly tips
refer to the Toymaking Tips
section of the book.



EAR
ACTUAL SIZE
MAKE 2
1/4" thick wood



OUTSIDE BODY
ACTUAL SIZE
MAKE 2
1/2" thick wood



LINDWORM DRAGON

scroll saw pattern

1. Apply a thin, even coat of spray mount to toy pattern. Let the glue dry to a tacky state before applying pattern to the wood. Press onto wood.



2. Carefully cut out pattern with your scroll saw. Repeat Steps 1 and 2 for all body parts. Sand lightly with 100 grit sandpaper to soften edges.



3. Apply glue to the contact surface of one outside body. Press part down and slide around on the middle body to spread glue evenly. Press firmly into place. Let glue dry thoroughly before proceeding to next step.



4. Repeat Step 3 to attach an ear and front leg to the outside body. The bottom of the foot should align evenly with the table top to level toy. Squeeze parts onto body and hold in place against table top until glue sets up.



5. Repeat Step 3 to attach the second outside body to the opposite side of the dragon. Squeeze part onto inside body and hold in place until glue sets up.



6. Repeat Step 4 to attach the second ear and front leg to the opposite side of the outside body. Squeeze parts onto body and hold in place until glue sets up.



LINDWORM DRAGON

scroll saw pattern



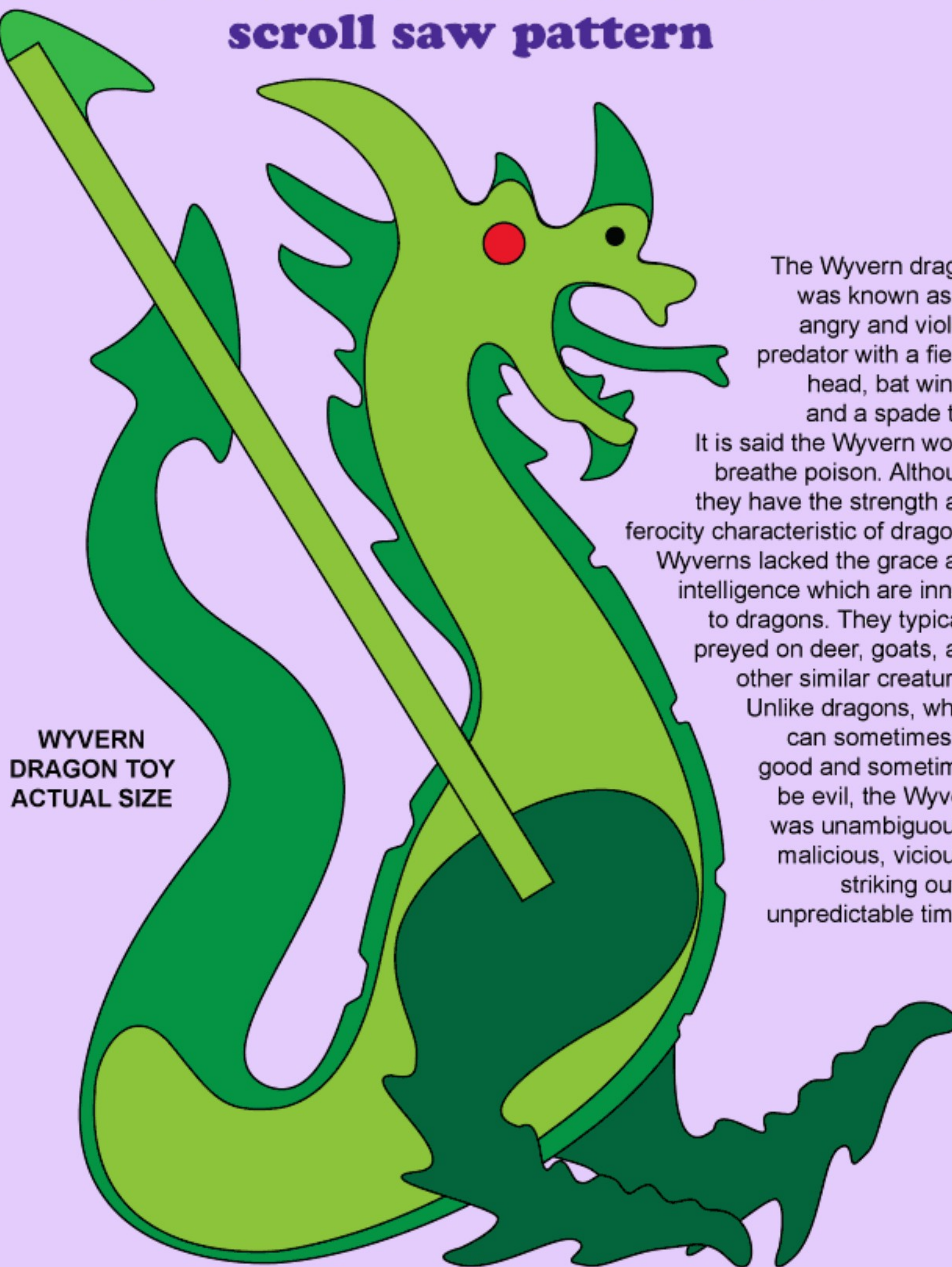
The Lindworm Dragon looks great both painted and unpainted. For painting and staining techniques refer to the Toymaking Tips section of the book.





WYVERN DRAGON

scroll saw pattern

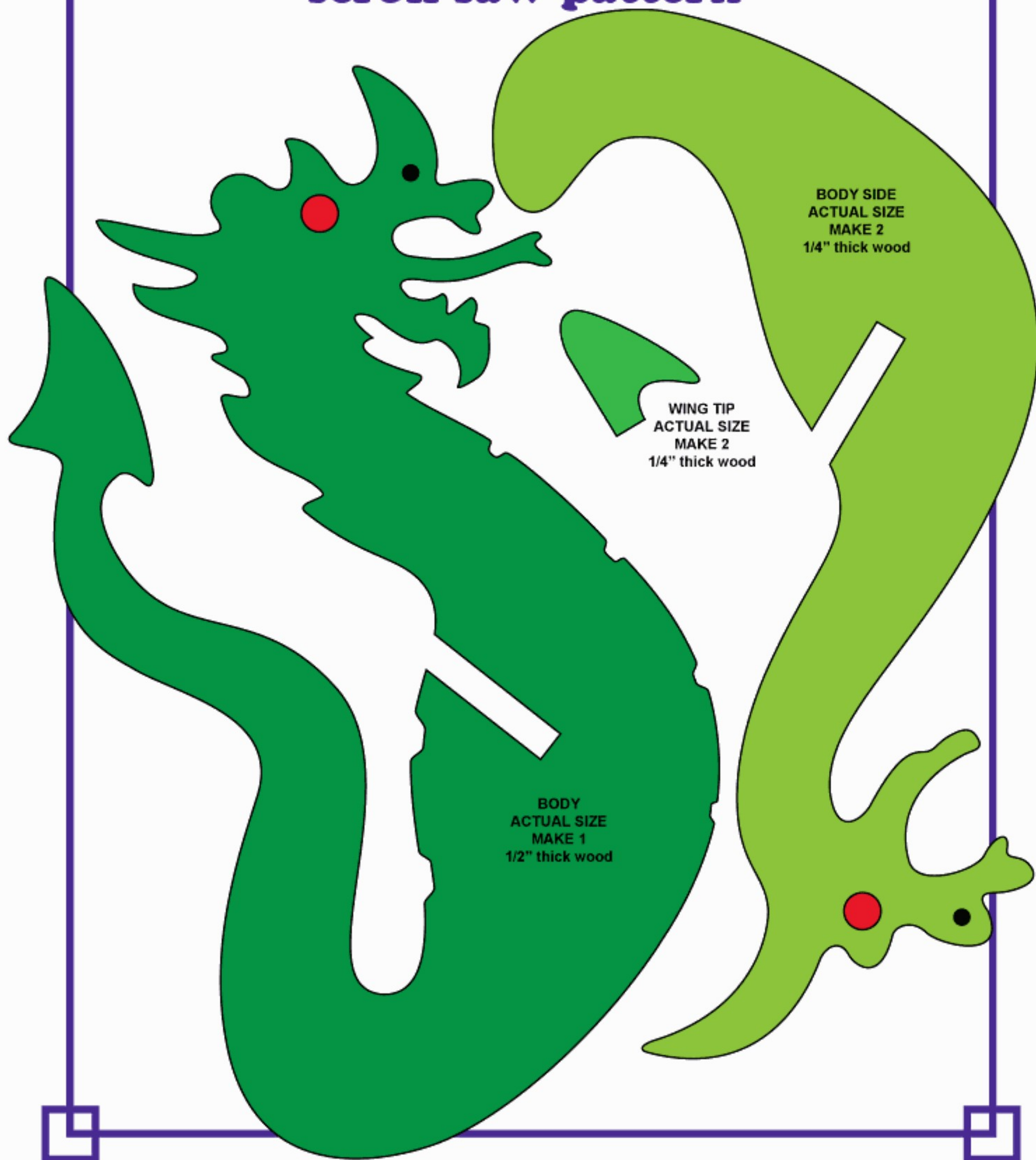


WYVERN
DRAGON TOY
ACTUAL SIZE

The Wyvern dragon was known as an angry and violent predator with a fierce head, bat wings, and a spade tail. It is said the Wyvern would breathe poison. Although they have the strength and ferocity characteristic of dragons, Wyverns lacked the grace and intelligence which are innate to dragons. They typically preyed on deer, goats, and other similar creatures. Unlike dragons, which can sometimes be good and sometimes be evil, the Wyvern was unambiguously malicious, viciously striking out at unpredictable times.

WYVERN DRAGON

scroll saw pattern



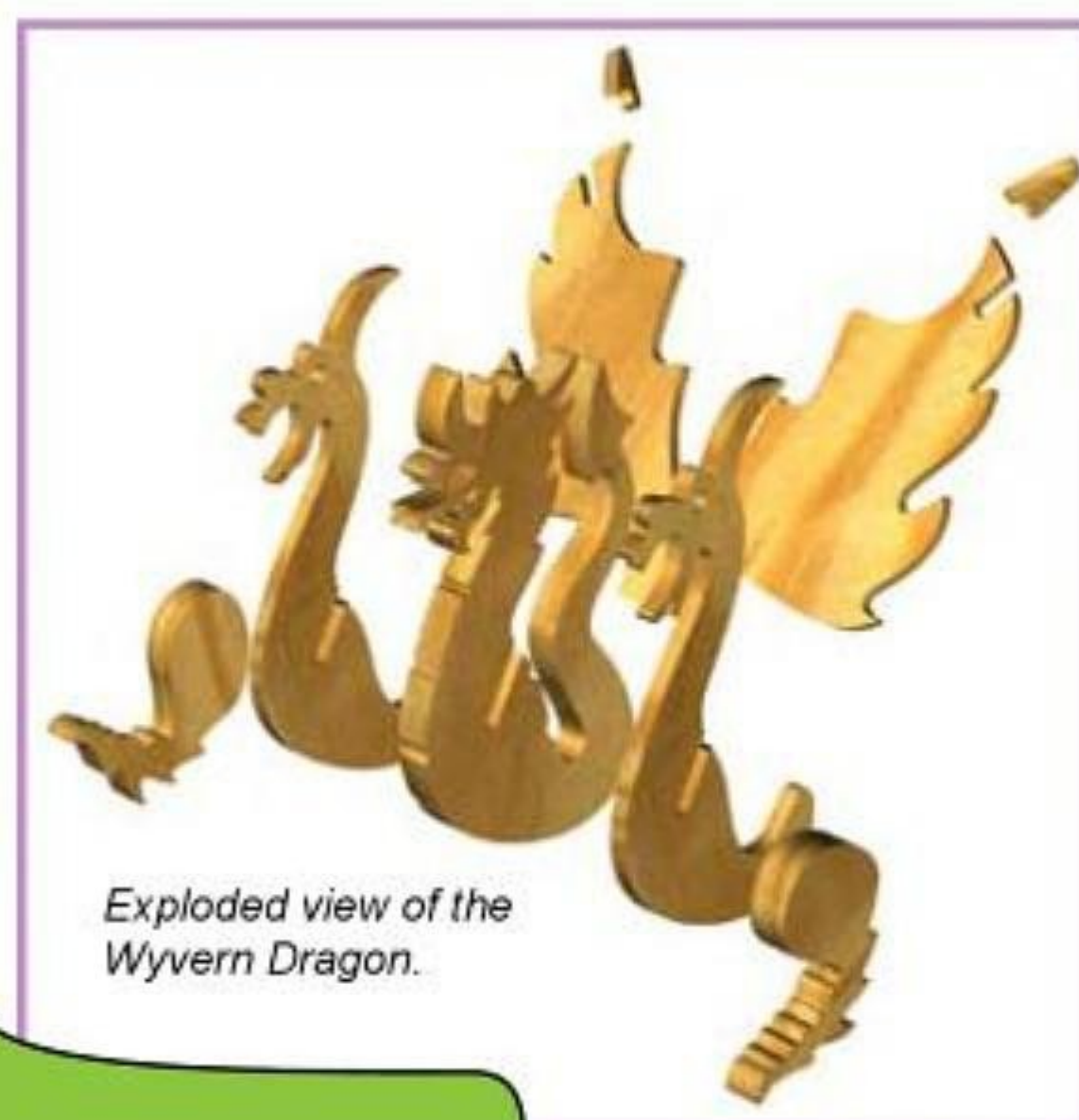
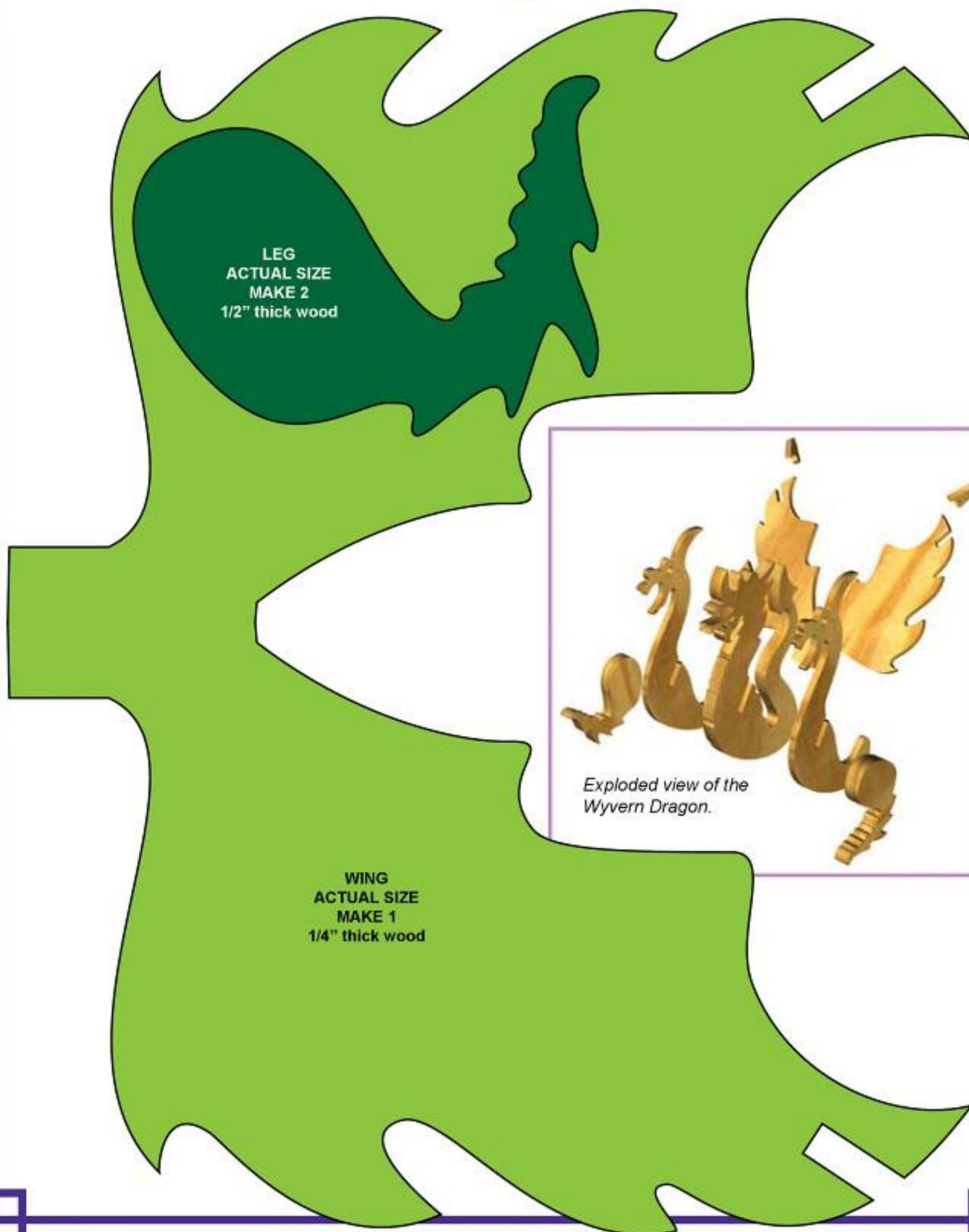
BODY SIDE
ACTUAL SIZE
MAKE 2
1/4" thick wood

WING TIP
ACTUAL SIZE
MAKE 2
1/4" thick wood

BODY
ACTUAL SIZE
MAKE 1
1/2" thick wood

WYVERN DRAGON

scroll saw pattern



WYVERN DRAGON

scroll saw pattern

1. Apply a thin, even coat of spray mount to toy pattern. Let the glue dry to a tacky state before applying pattern to the wood. Press onto wood.



2. Carefully cut out pattern with your scroll saw. Repeat Steps 1 and 2 for all body parts. Sand lightly with 100 grit sandpaper to soften edges.



3. Apply glue to the contact surface of one body side. Press part down and slide around on the body to spread glue evenly. Press firmly into place. Let glue dry thoroughly before proceeding to next step.



4. Repeat Step 3 to attach one leg to the body assembly. Align bottom of feet evenly with the table top to level. Refer to the dragon side view on page 23 for suggested placement of the legs. Squeeze leg onto body and hold in place against table top until glue sets up.



5. Repeat Step 3 to attach the second body side to the body assembly. Squeeze parts and hold in place until glue sets up. Let glue dry thoroughly before proceeding to next step.



6. Repeat Step 3 to attach the wing to the dragon body assembly. Squeeze wing into body notch and hold in place until glue sets up. Let glue dry thoroughly before proceeding to next step.



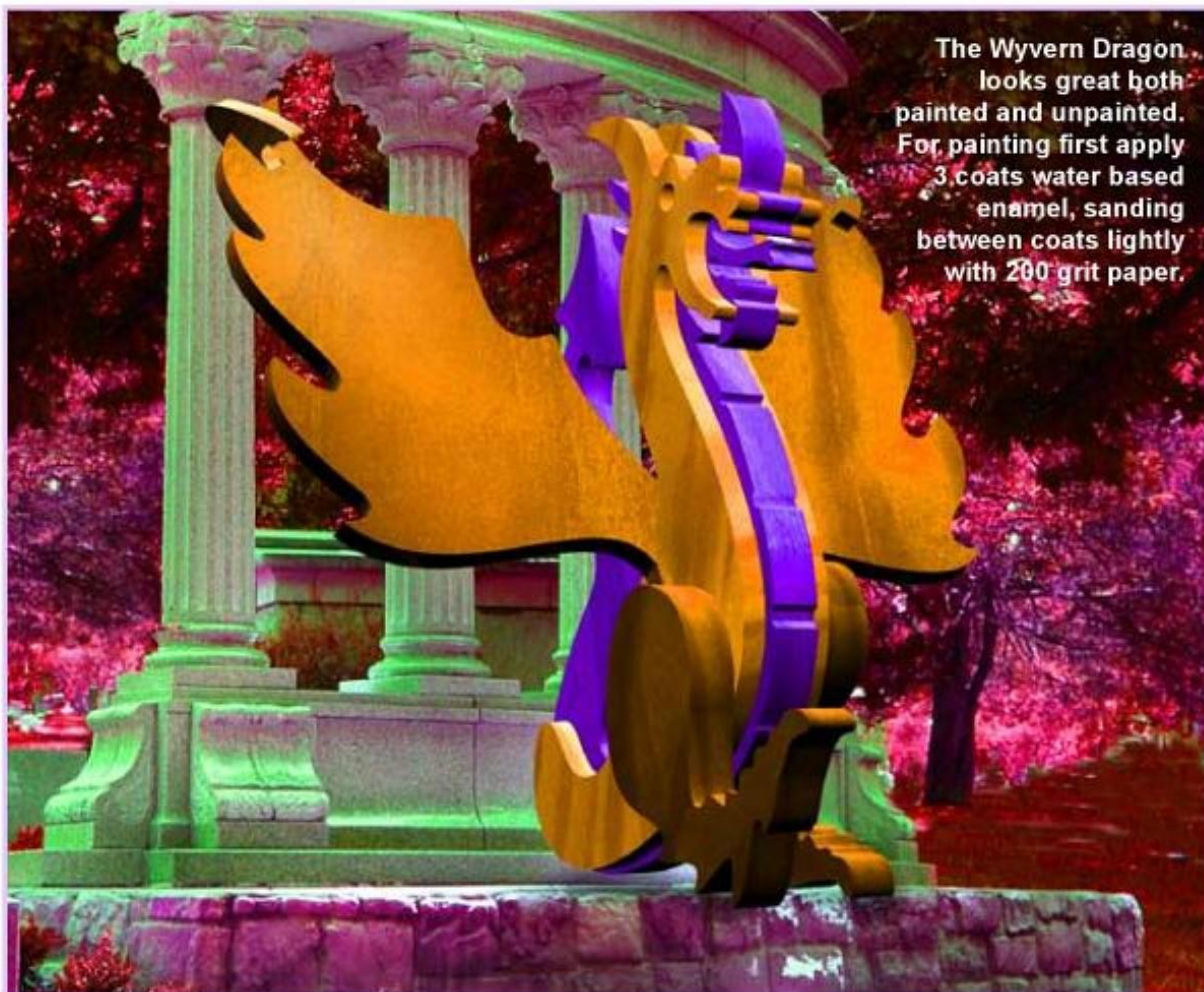
WYVERN DRAGON

scroll saw pattern

7. Repeat Step 6 to attach the wing tips to the wing. Squeeze each wing tip into each wing notch and hold in place until glue sets up. Let glue dry thoroughly before proceeding to next step.



8. Repeat Step 4 to attach the second leg to the dragon assembly. Refer to the dragon side view on page 23 for suggested placement of the legs. Squeeze leg onto body and hold in place against table top until glue sets up.



The Wyvern Dragon looks great both painted and unpainted. For painting first apply 3 coats water based enamel, sanding between coats lightly with 200 grit paper.



MARSUPIAL DRAGON

scroll saw pattern

The Marsupial dragon name is due to its resemblance to the kangaroo. Although they have four legs, the back legs are large like a kangaroo's.

The Marsupial hops on the hind legs like a kangaroo. They also have a pouch on their abdomen as does the kangaroo. The Marsupial has a pronounced wing along its back but it can not fly. The Marsupial is very rare but is believed to live in Australia in the Blue Mountain eucalypt

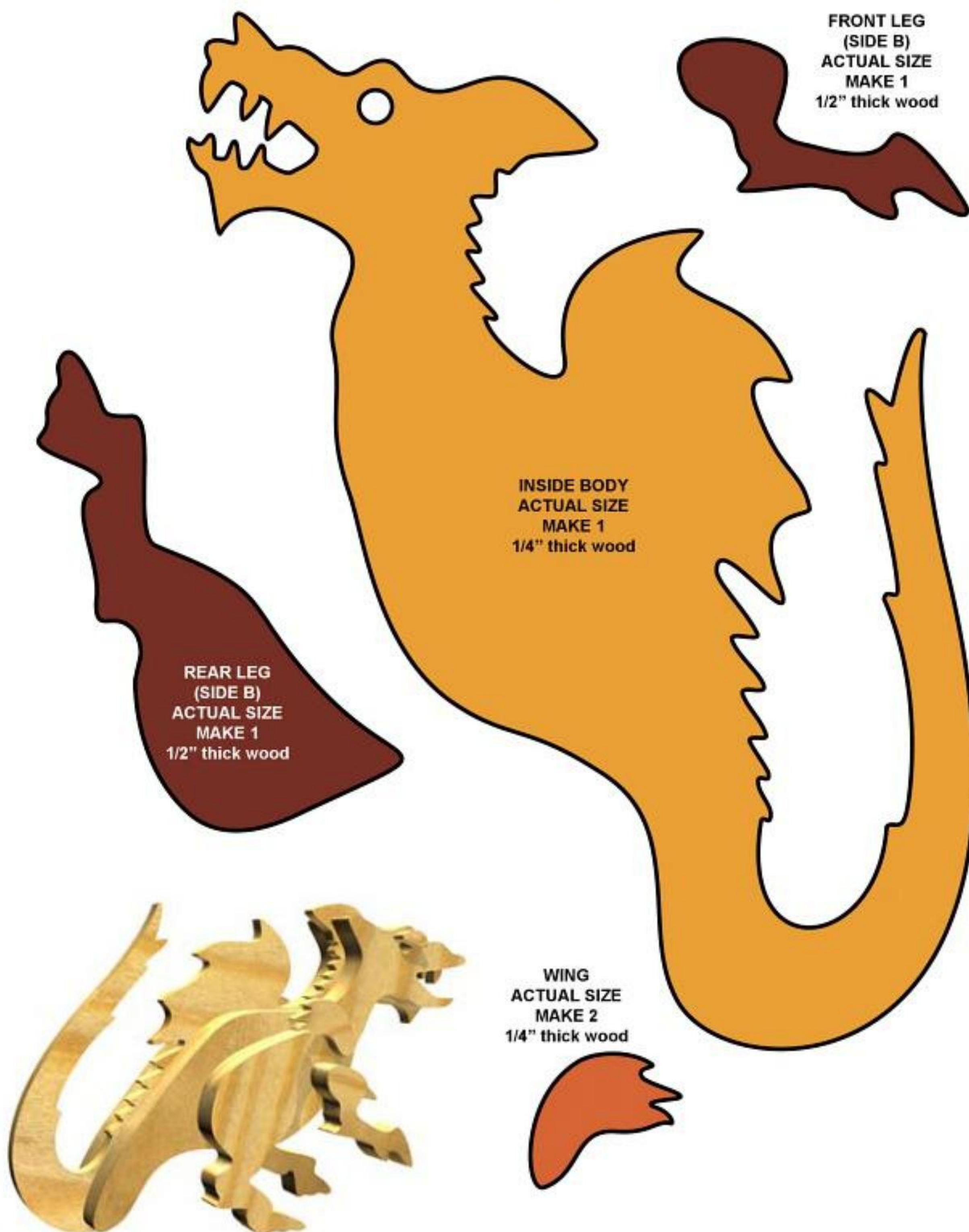
forests in remote rocky caves. They attack with their fire breath, lashing tail and by kicking their strong lower legs. The Marsupial can grow to be 25 ft long and 17 ft tall and has been known to live to be around 100 years in age.



MARSUPIAL
DRAGON TOY
ACTUAL SIZE

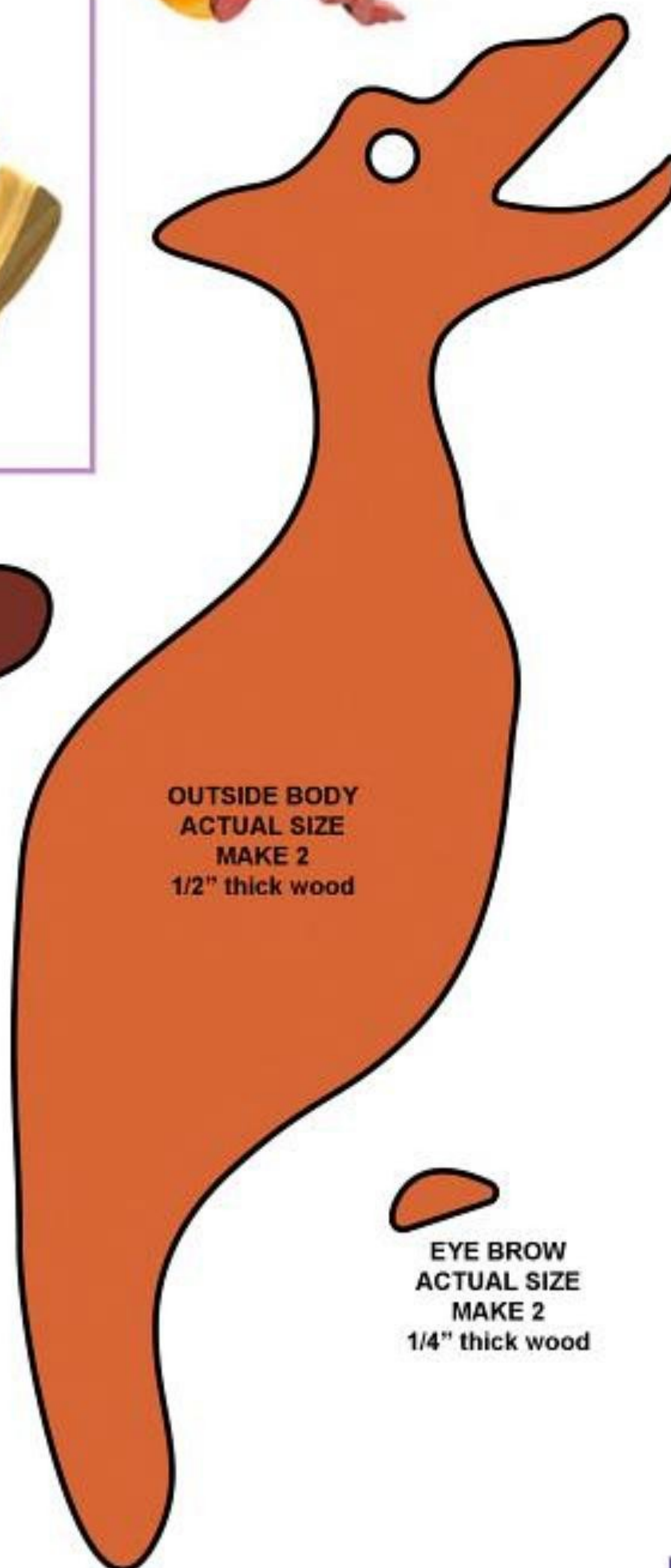
MARSUPIAL DRAGON

scroll saw pattern



MARSUPIAL DRAGON

scroll saw pattern



MARSUPIAL DRAGON

scroll saw pattern

1. Apply a thin, even coat of spray mount to toy pattern. Let the glue dry to a tacky state before applying pattern to the wood. Press onto wood.



2. Carefully cut out pattern with your scroll saw. Repeat Steps 1 and 2 for all body parts. Sand lightly with 100 grit sandpaper to soften edges.



3. Apply glue to the contact surface of one outside body. Press part down and slide around on the inside body to spread glue evenly. Press firmly into place. Let glue dry thoroughly before proceeding to next step.



4. Repeat Step 3 to attach the side A front and rear legs and a wing and eyebrow to the dragon body assembly. Refer to the dragon side view on page 29 for placement of the legs. Squeeze parts onto body and hold in place against table top to level toy until glue sets up.



5. Flip toy to opposite side. Repeat Step 3 and attach the second outside body part to the inside body. Hold assembly in place until glue sets up.



6. Repeat Step 4 to attach the side B front leg and the second wing and eyebrow to the body assembly.



MARSUPIAL DRAGON

scroll saw pattern

7. Repeat Step 4 to attach the side B rear leg to the dragon. Align bottom of feet evenly with the table top to level. Squeeze legs onto belly and hold in place against table top until glue sets up.



8. The Marsupial Dragon looks great both painted and unpainted. For painting first apply 3 coats water based enamel, sanding between coats lightly with 200 grit paper.

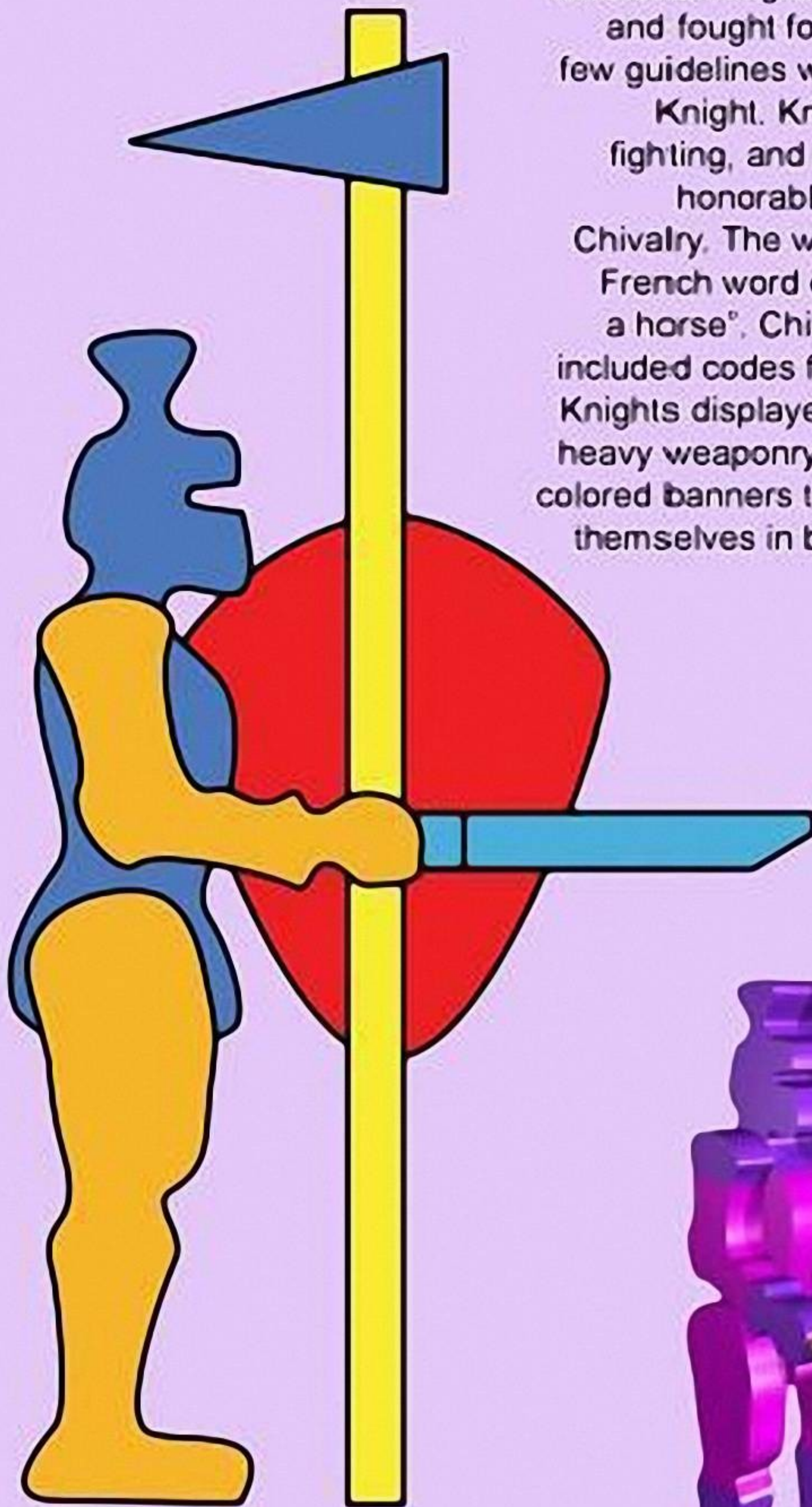




BRAVE KNIGHT

scroll saw pattern

Medieval Knights protected the weak and helpless and fought for their Kingdom with honor. These few guidelines were the main duties of a Medieval Knight. Knights were well trained in hunting, fighting, and riding and in practicing courteous, honorable behavior. Knights also practiced Chivalry. The word Chivalry was derived from the French word chevalier implying "skills to handle a horse". Chivalry guided a Knight's life style. It included codes for military, social life, and religion. Knights displayed military chivalry with expensive, heavy weaponry, a stable of fine horses and flying colored banners to display power and to distinguish themselves in battle and in jousting tournaments.



**BRAVE KNIGHT TOY
ACTUAL SIZE**



BRAVE KNIGHT

scroll saw pattern

*For detailed toy assembly
tips refer to the Toymaking
Tips section of the book.*



Brave Knight

scroll saw pattern



BODY
ACTUAL SIZE
MAKE 1
7/8" thick wood
cut from 2 x 4



SWORD
ACTUAL SIZE
MAKE 1
1/4" DIA. DOWEL
(FLATTEN EACH SIDE
OF THE SWORD DOWEL
WITH A BLOCK OF
SANDPAPER TO MAKE
SWORD BLADE)



FLAGSTAFF
ACTUAL SIZE
MAKE 1
1/4" DIA. DOWEL



SHORT FLAGSTAFF FOR KNIGHT ON HORSEBACK

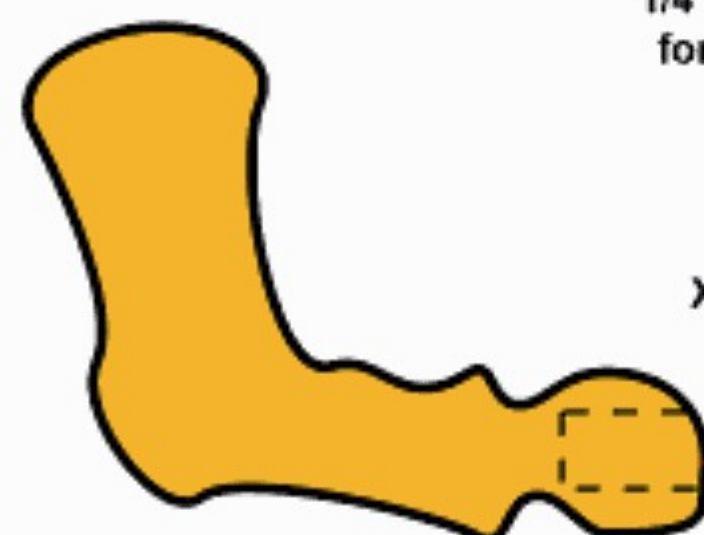


SHIELD
ACTUAL SIZE
MAKE 1
1/4" thick wood

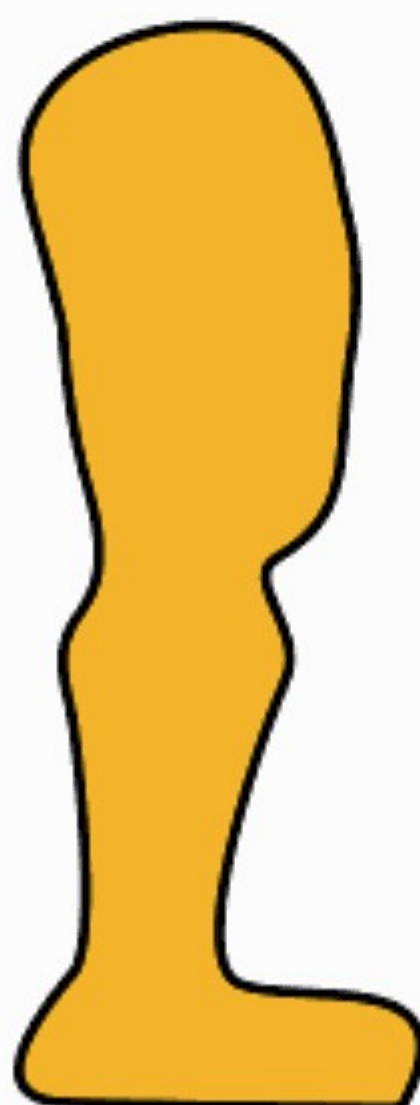


ARM
ACTUAL SIZE
MAKE 2
1/2" thick wood

1/4" hole thru
for flagstaff



1/4" hole
X 3/8" DEEP
for sword



LEG
ACTUAL SIZE
MAKE 2
1/2" thick wood



FLAG
ACTUAL SIZE
MAKE 1
1/2" thick wood

1/4" hole thru
for flagstaff

BRAVE KNIGHT

scroll saw pattern

1. Apply a thin, even coat of spray mount to toy pattern. Let the glue dry to a tacky state before applying pattern to the wood. Press onto wood. Carefully cut out patterns with your scroll saw.



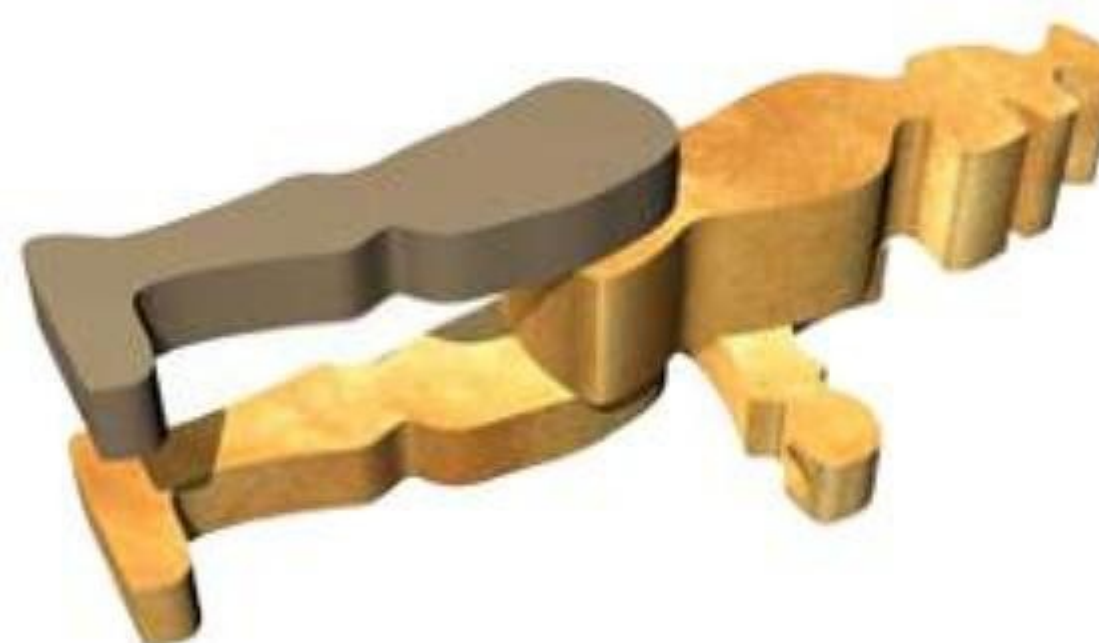
2. Lay body of knight on side. Apply glue to contact surface of one arm. Squeeze arm against body and wait until glue sets up before proceeding.



3. Apply glue to the contact surface of one leg. Press part down and slide around on body to spread glue evenly. Press firmly into place. Let glue dry thoroughly before proceeding to next step.



4. Turn body of knight to opposite side. Apply glue to one side of leg. Squeeze leg against body and wait until glue sets up before proceeding.



5. Apply glue to contact surface of remaining arm. Squeeze arm tightly in place against body. Hold assembly in place until glue sets up.



6. Apply glue to contact surface of arm where it meets shield. Squeeze shield against arm tightly and let dry in place.

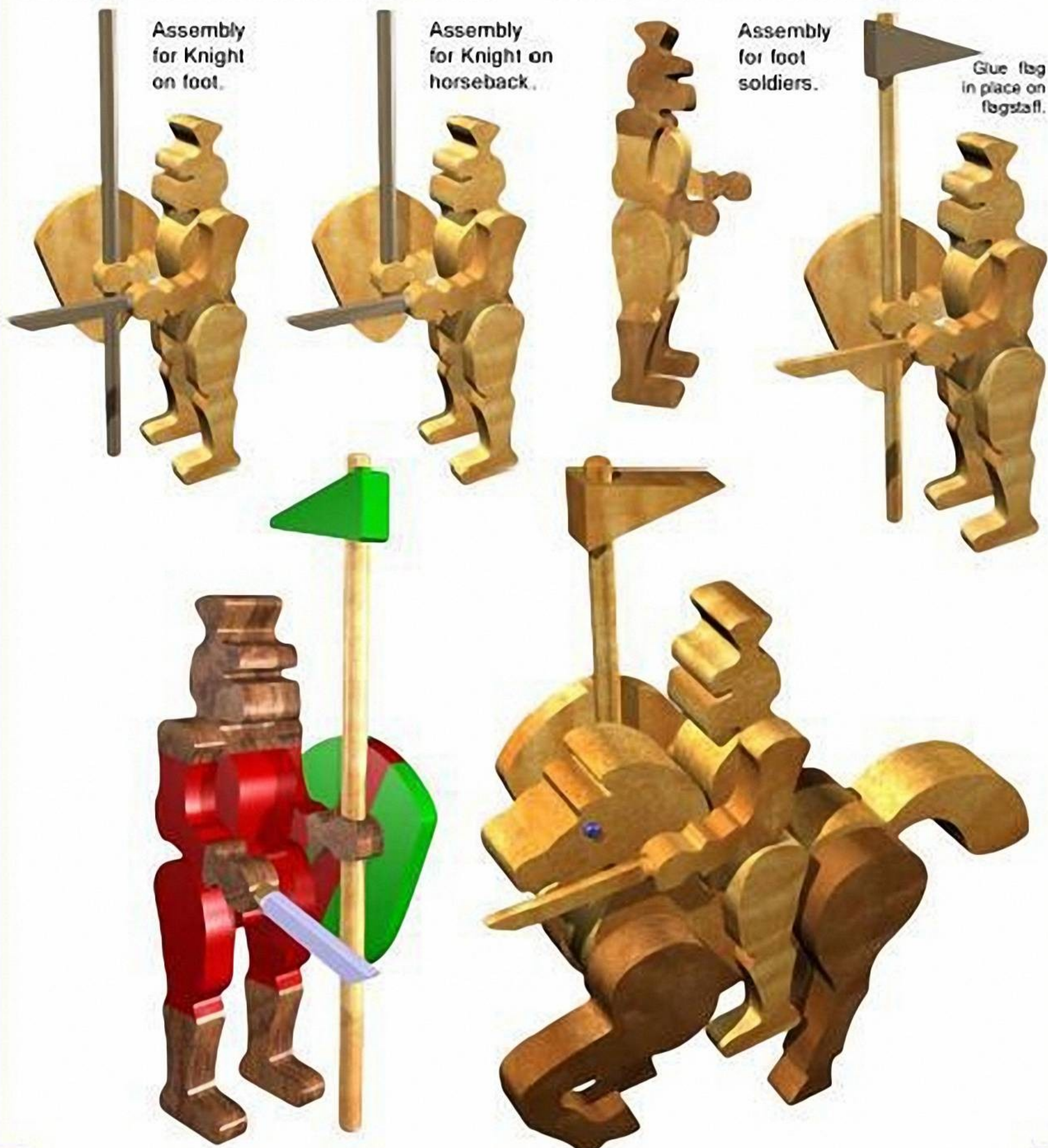


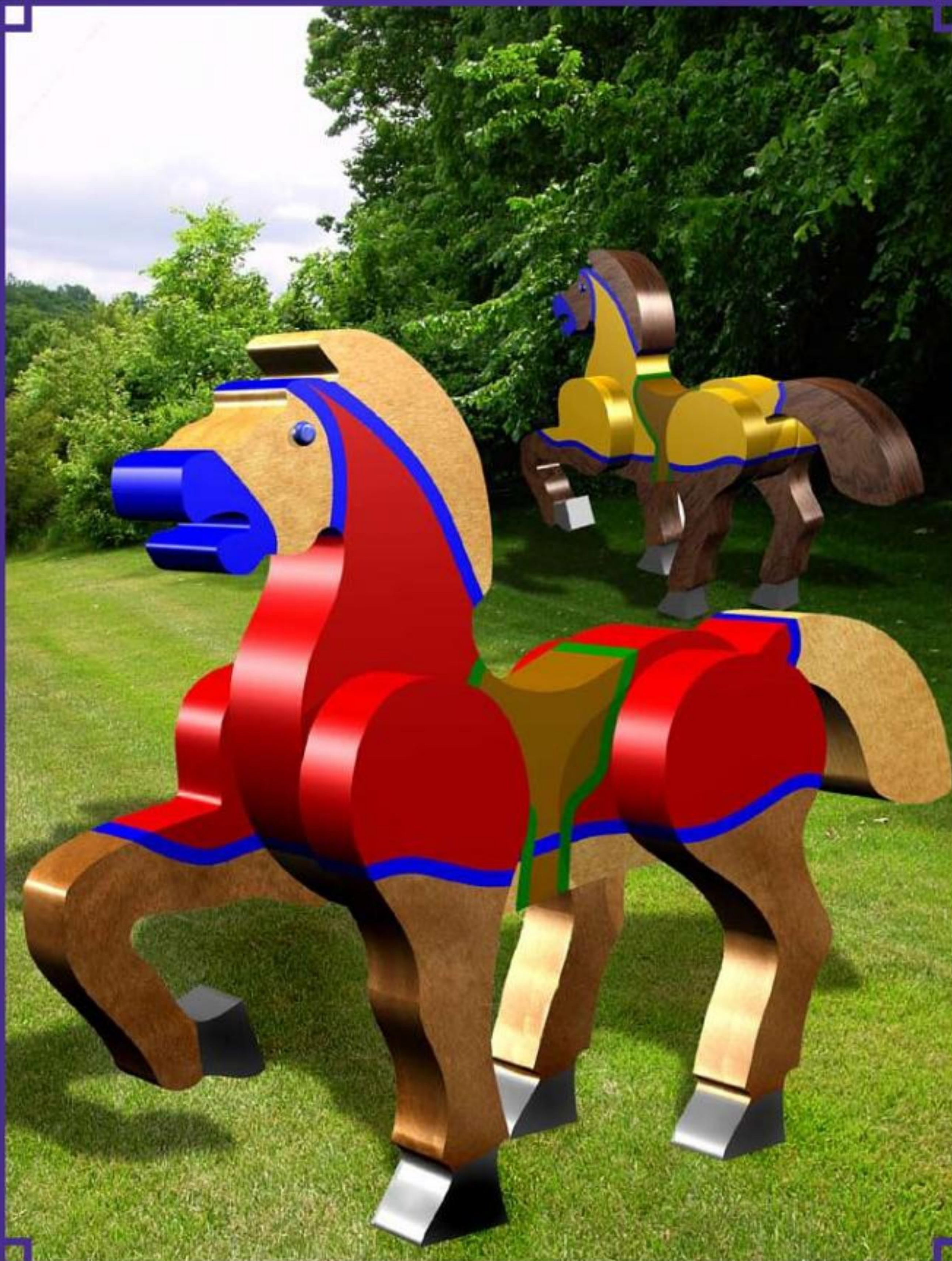
BRAVE KNIGHT

scroll saw pattern

7. For Knights on foot, glue longest flagstaff in place in hand-hole with flagstaff level with bottom of feet. For Knights on horseback glue short flagstaff in place in hand-hole aligned with bottom of Knight's hand.

8. Glue sword in place in end of hand as shown in the illustrations below. A set of Knights with swords, flagstaffs and shields plus a set without these accessories makes a versatile play set.

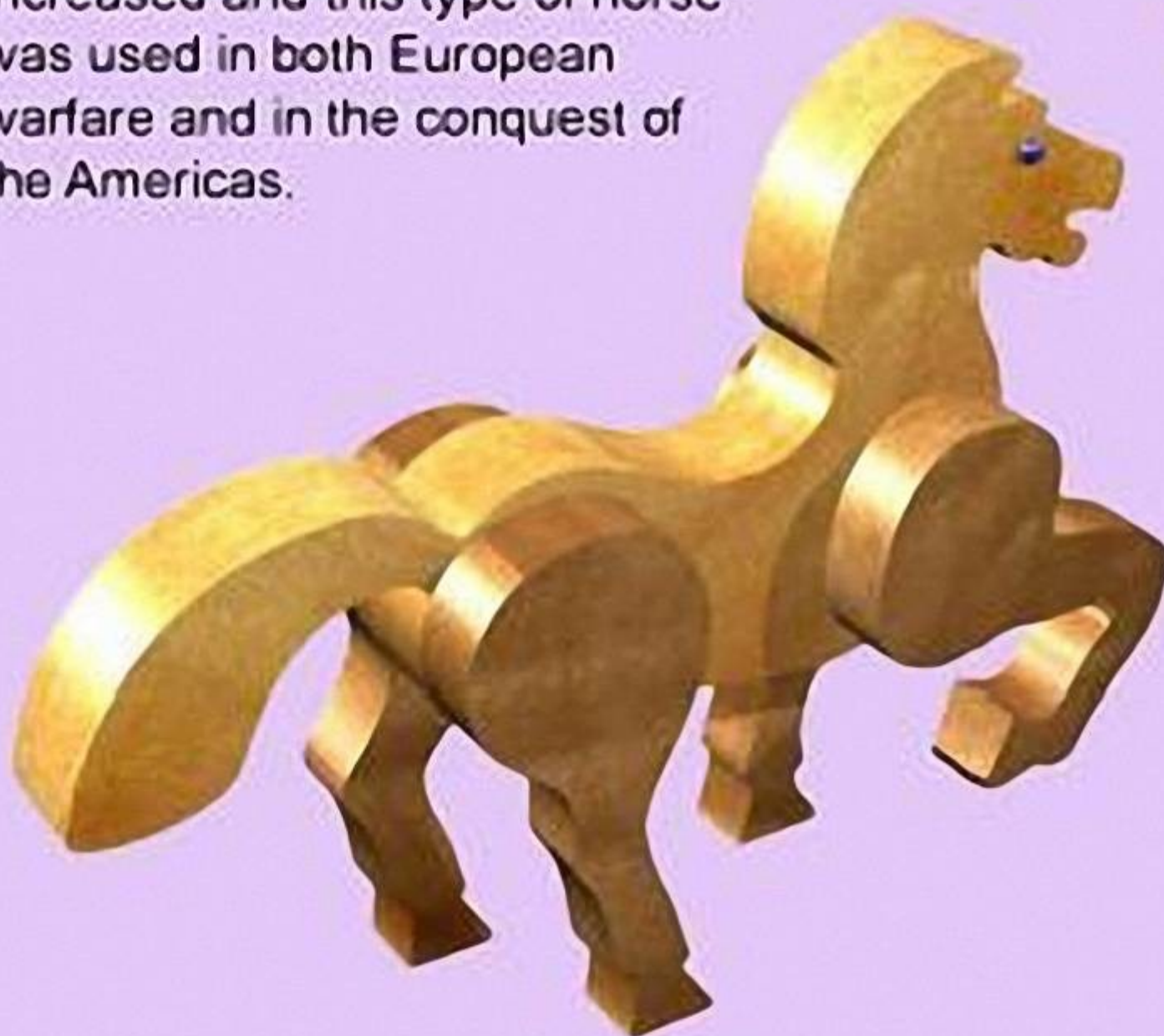
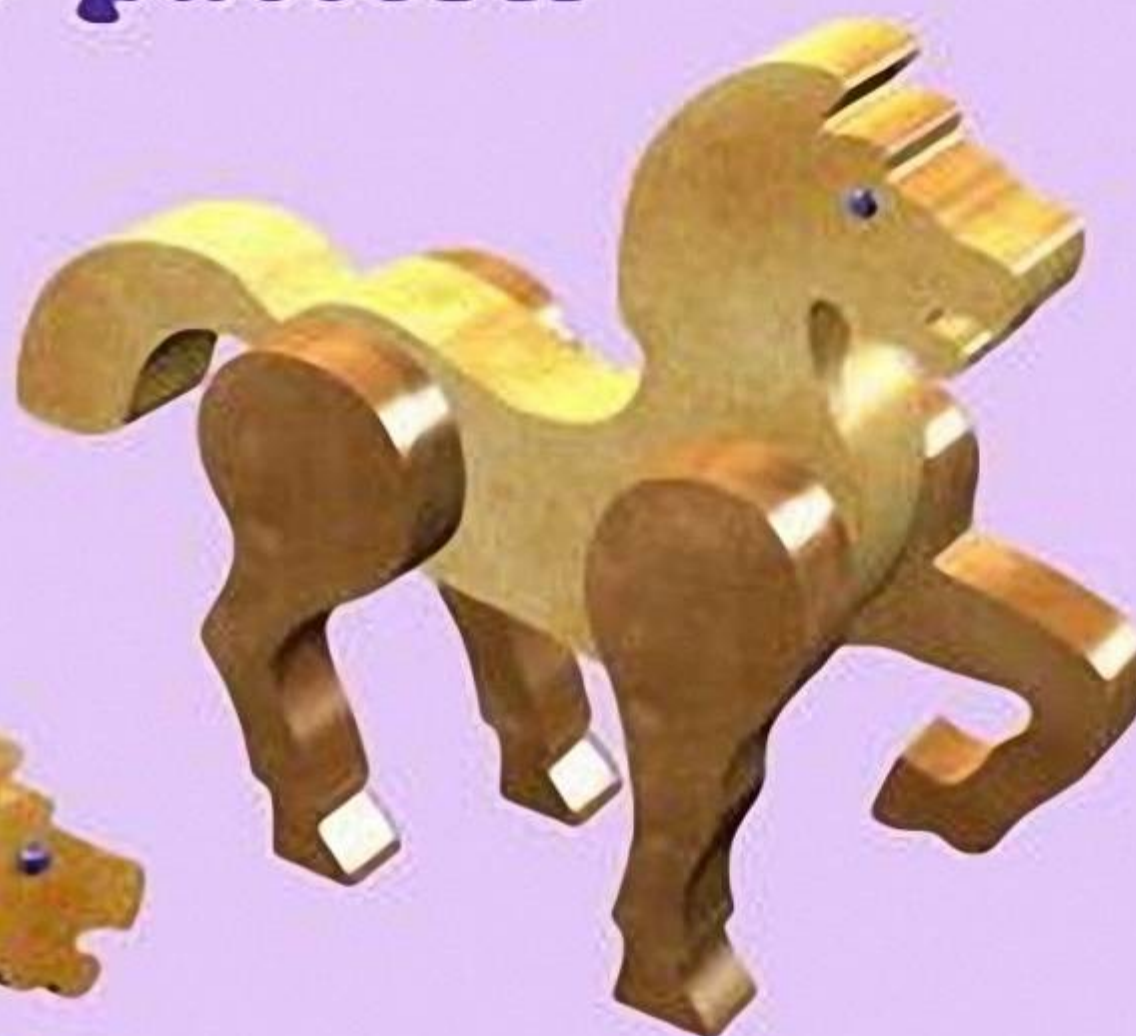




WAR HORSE

scroll saw pattern

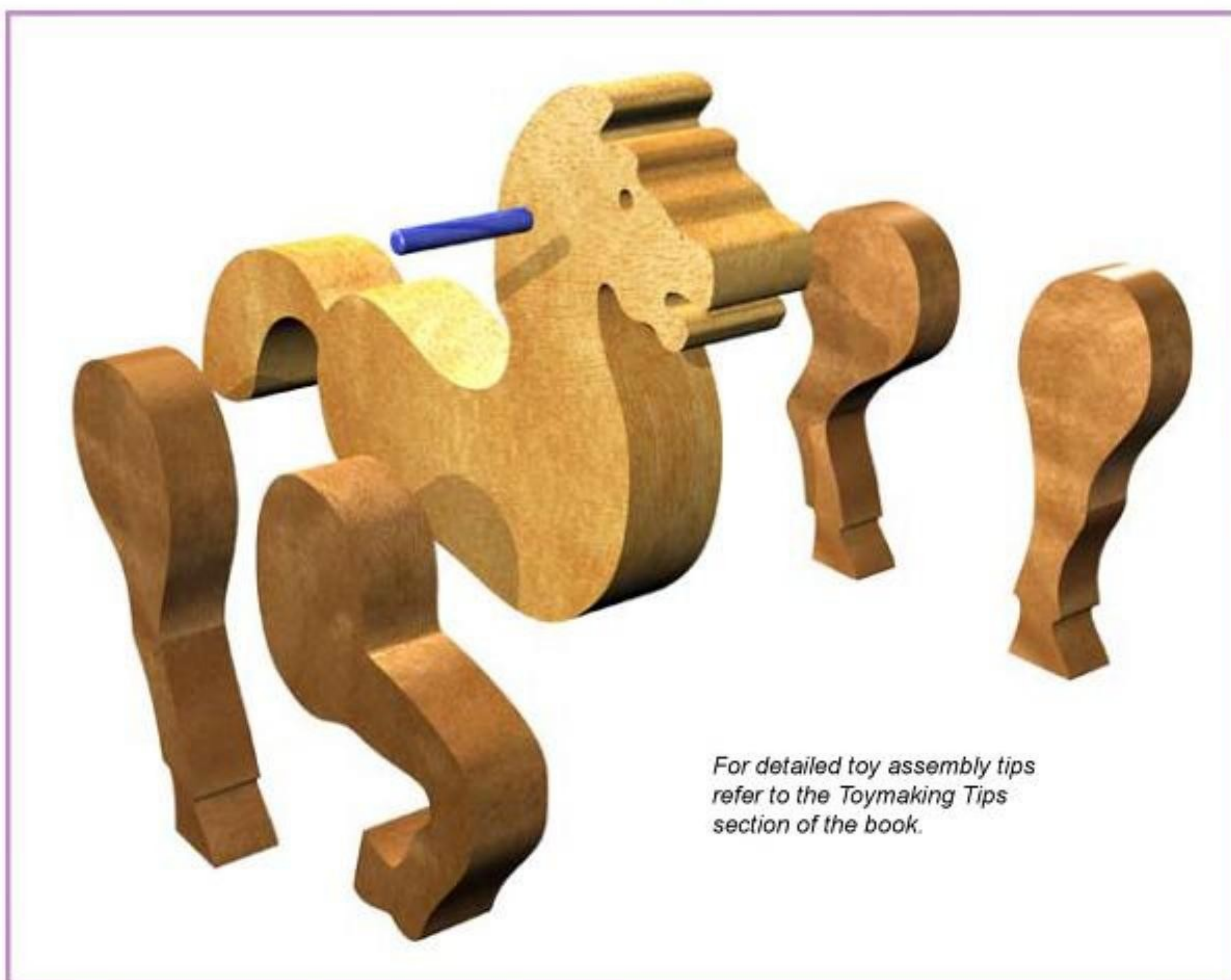
Europeans used several types of War Horses in the Middle Ages and the best-known heavy cavalry War Horse of the period were the massive breeds that carried the armored knights. With invention of gunpowder in warfare the use of the War Horse and cavalry increased and this type of horse was used in both European warfare and in the conquest of the Americas.



WAR HORSE TOY
ACTUAL SIZE

WAR HORSE

scroll saw pattern



*For detailed toy assembly tips
refer to the Toymaking Tips
section of the book.*



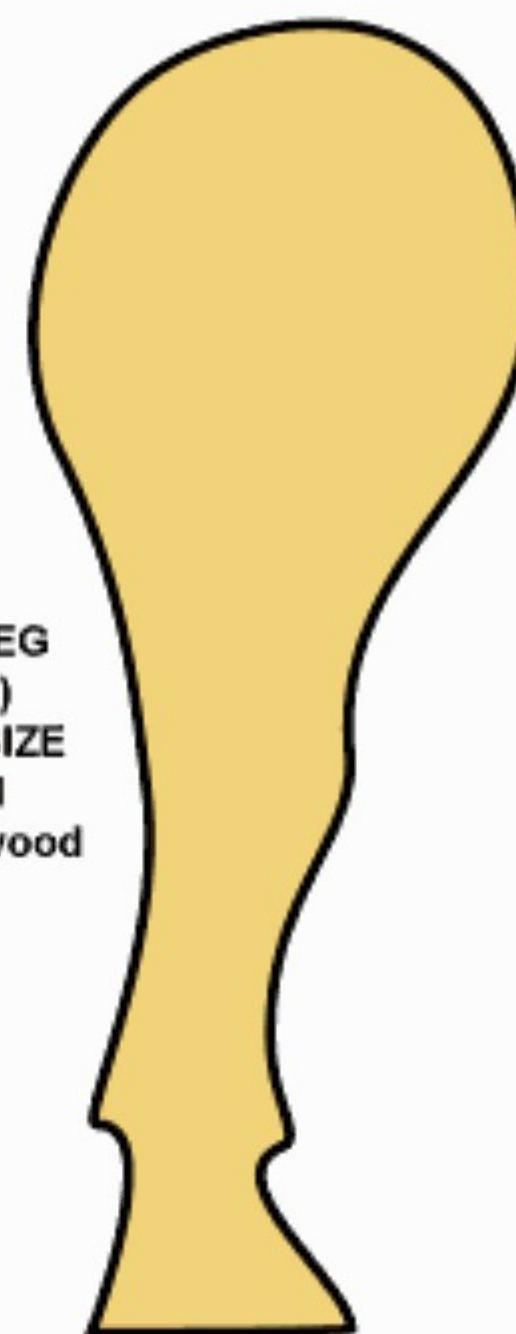
WAR HORSE

scroll saw pattern

FRONT LEG
(SIDE A)
ACTUAL SIZE
MAKE 1
1/2" thick wood



FRONT LEG
(SIDE B)
ACTUAL SIZE
MAKE 1
1/2" thick wood



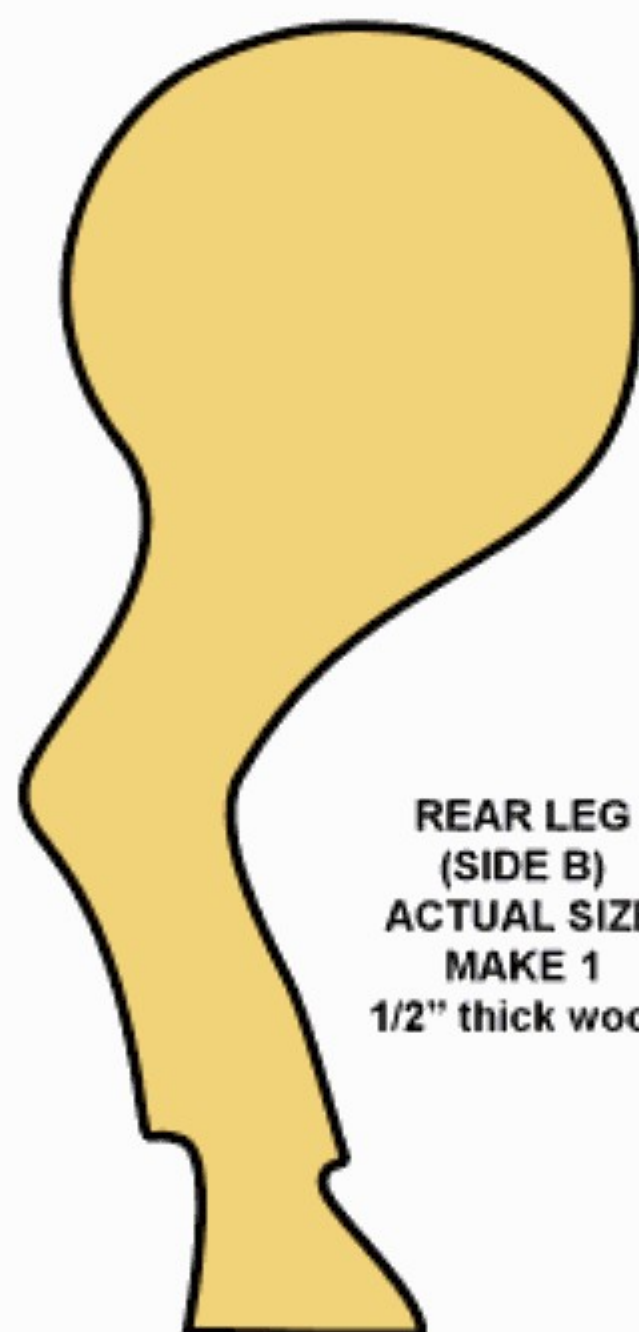
REAR LEG
(SIDE A)
ACTUAL SIZE
MAKE 1
1/2" thick wood



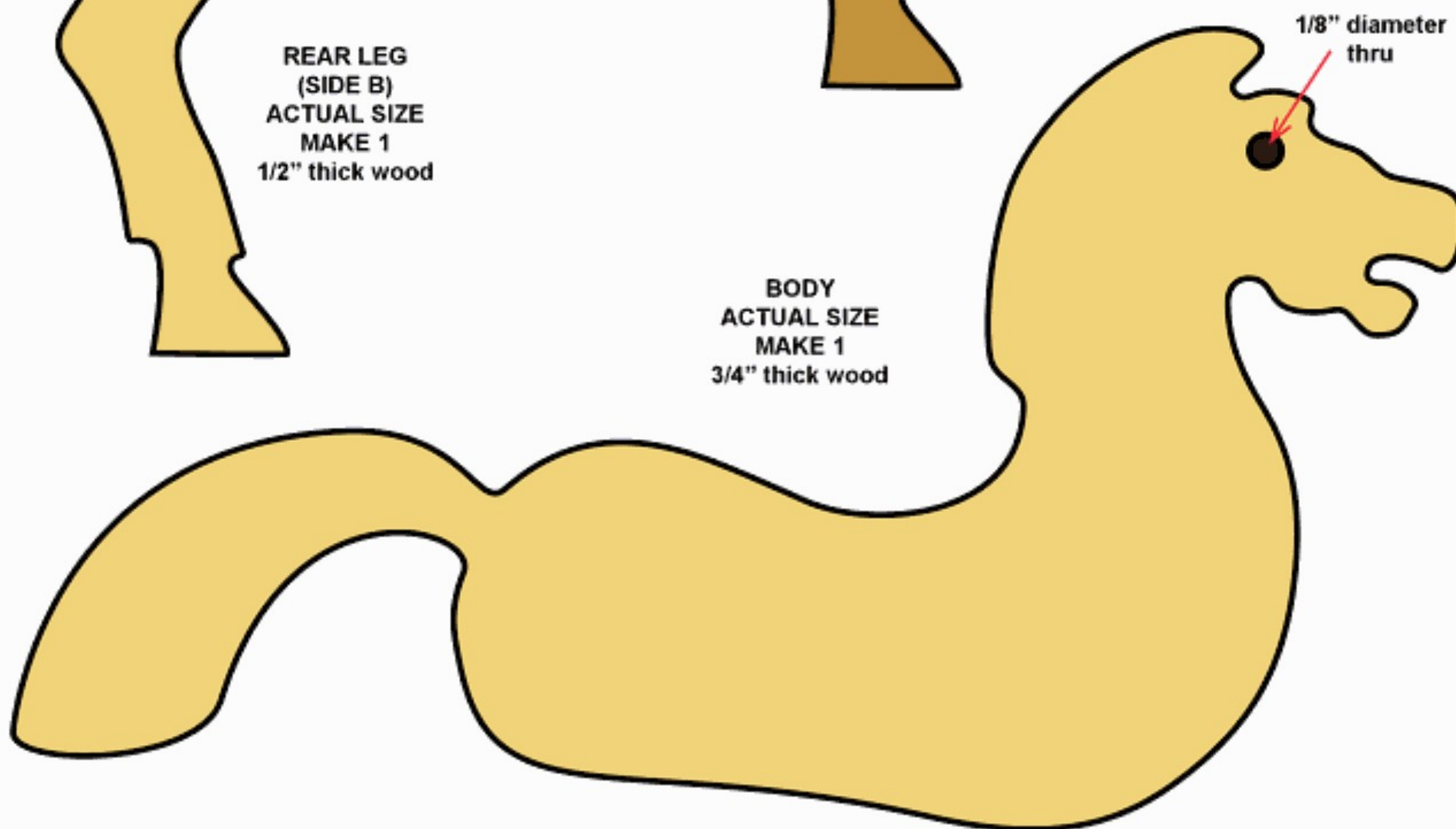
EYE PEG
ACTUAL SIZE
MAKE 1
1/8" diameter
X 7/8"



REAR LEG
(SIDE B)
ACTUAL SIZE
MAKE 1
1/2" thick wood



BODY
ACTUAL SIZE
MAKE 1
3/4" thick wood



War Horse

scroll saw pattern

1. Apply a thin, even coat of spray mount to toy pattern. Let the glue dry to a tacky state before applying pattern to the wood. Press onto wood.



2. Carefully cut out pattern with your scroll saw. Repeat Steps 1 and 2 for all body parts. Sand lightly with 100 grit sandpaper to soften edges.



3. Apply glue to the contact surface of front leg (side A). Press part down and slide around on the inside body to spread glue evenly. Press firmly into place. Let glue dry thoroughly and drill 1/8" eye hole before proceeding to next step.



4. Apply glue to the contact surface of rear leg (side A). Press part down and slide around on the inside body to spread glue evenly. Press firmly into place. Let glue dry thoroughly before proceeding.



5. Flip toy to opposite side. Repeat Step 3 and attach the second front leg (side B) in position on the body. Hold assembly in place until glue sets up.



6. Repeat Step 4 and attach the remaining rear leg (side B) in position on the body. Hold assembly in place tightly until the glue sets up. Add glue to end of eye peg. Press eye peg into eye hole.



War Horse

scroll saw pattern



The War Horse looks great both painted and unpainted. For painting first apply 3 coats water based enamel, sanding between coats lightly with 200 grit paper.



FAIR MAIDEN

scroll saw pattern

In Medieval times beginning in the eleventh century, a love for Fair Maidens became even more vital for the Medieval Knights and their Code of Chivalry. Knighthood included practicing romance and the Knight's romantic ideals were seen as a source of dignity. Knights were expected to spend their leisure time learning the arts of gallantry and protecting Fair Maidens from harm. Assisting Fair Maidens was considered even more important than military honor.

Unpainted Fair Maidens possess a lot of charm, especially when a variety of woods are used in different textures and colors.



FAIR MAIDEN TOY
ACTUAL SIZE

FAIR MAIDEN

scroll saw pattern

For detailed toy assembly tips refer to the
Toymaking Tips section of the book.



HEAD
ACTUAL SIZE
MAKE 1
1/2" thick wood



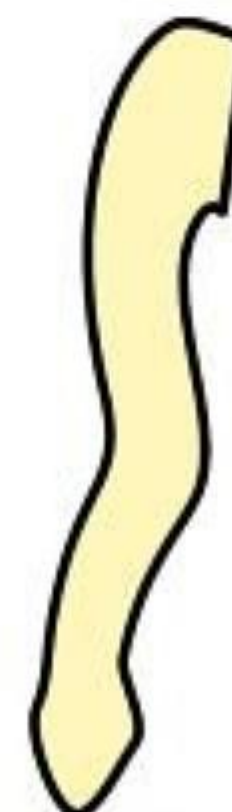
NECK
ACTUAL SIZE
MAKE 1
3/8" thick wood



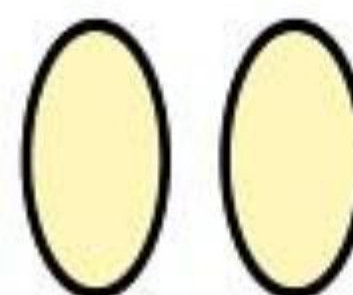
BODY
ACTUAL SIZE
MAKE 1
3/4" thick wood



HAIR
ACTUAL SIZE
MAKE 1
1/8" thick wood



ARM
ACTUAL SIZE
MAKE 2
1/2" thick wood



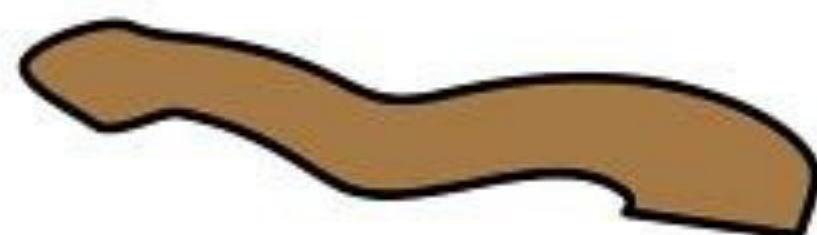
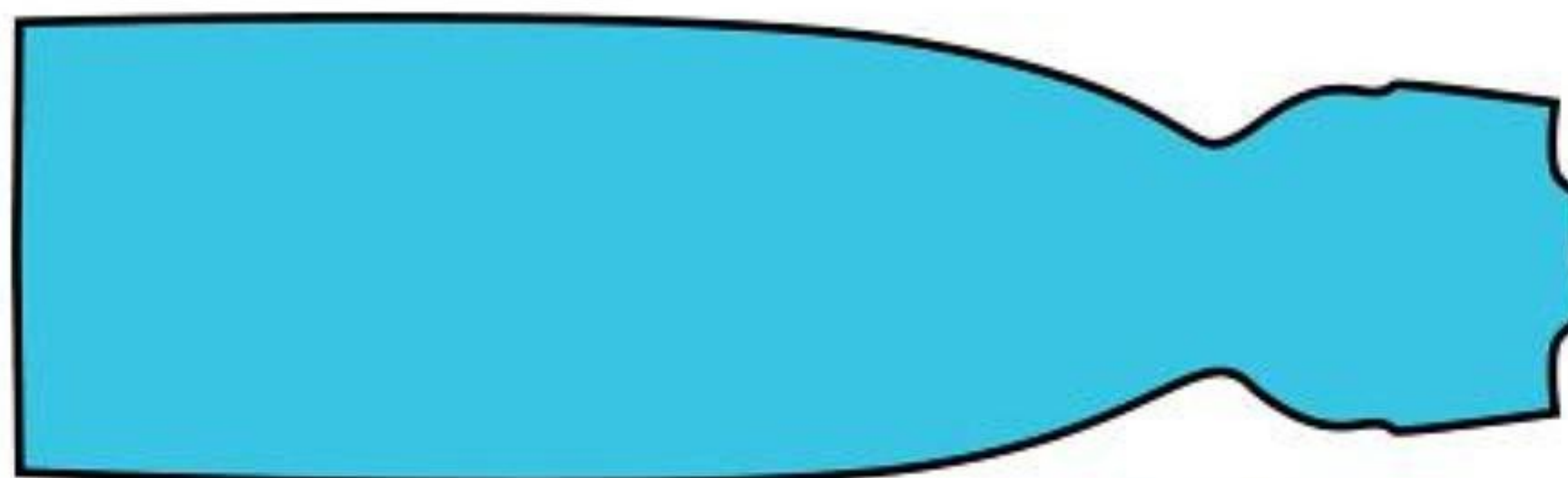
FOOT
ACTUAL SIZE
MAKE 2
1/4" thick wood

TOP VIEW

FAIR-MAIDEN

scroll saw pattern

BODY
ACTUAL SIZE
MAKE 1
3/4" thick wood



ARM
ACTUAL SIZE
MAKE 2
1/2" thick wood

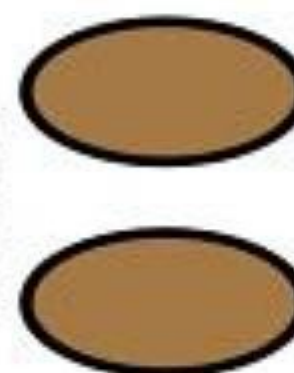


NECK
ACTUAL SIZE
MAKE 1
3/8" thick wood



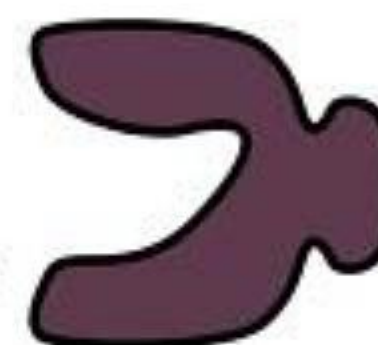
HEAD
ACTUAL SIZE
MAKE 1
1/2" thick wood

TOP VIEW



FOOT
ACTUAL SIZE
MAKE 2
1/4" thick wood

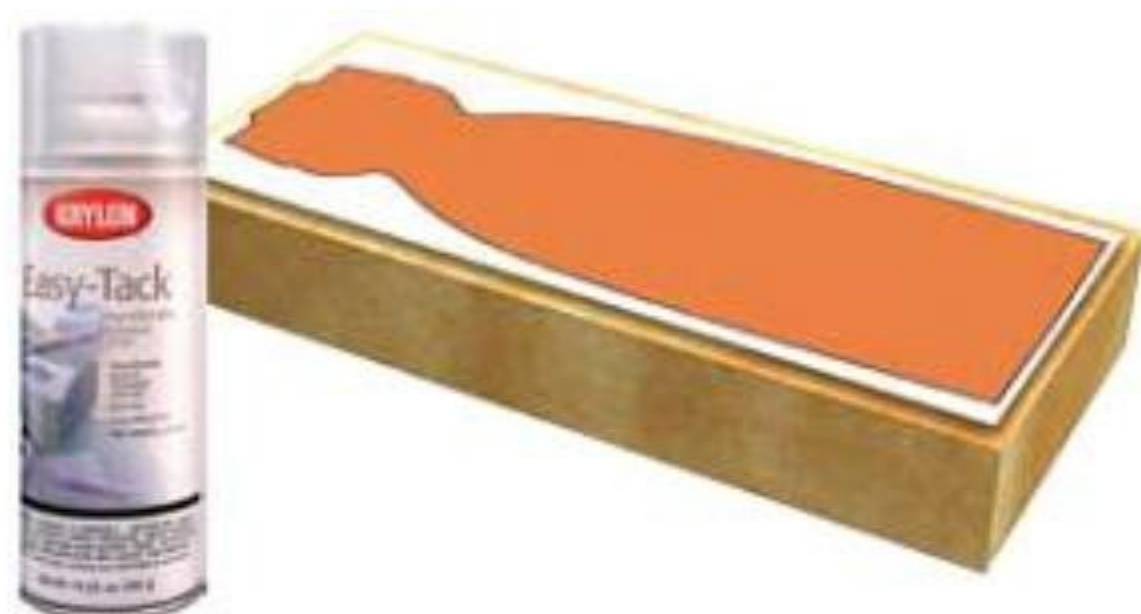
HAIR
ACTUAL SIZE
MAKE 1
1/8" thick wood



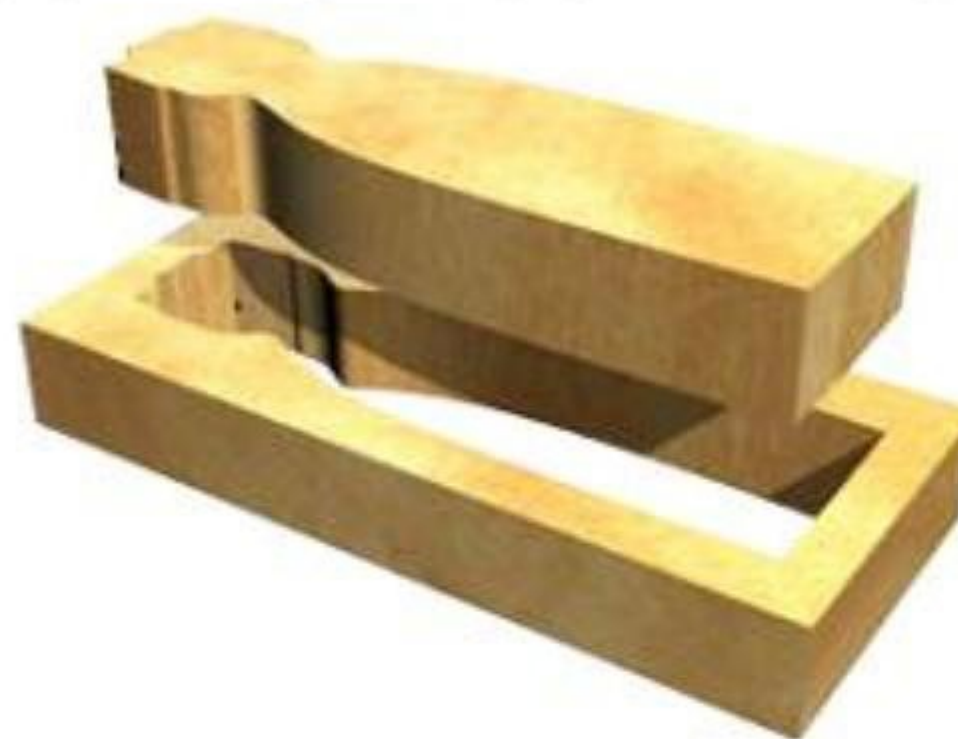
FAIR-MAIDEN

scroll saw pattern

1. Apply a thin, even coat of spray mount to toy pattern. Let the glue dry to a tacky state before applying pattern to the wood. Press onto wood.



2. Carefully cut out pattern with your scroll saw. Repeat Steps 1 and 2 for all body parts. Sand lightly with 100 grit sandpaper to soften edges.



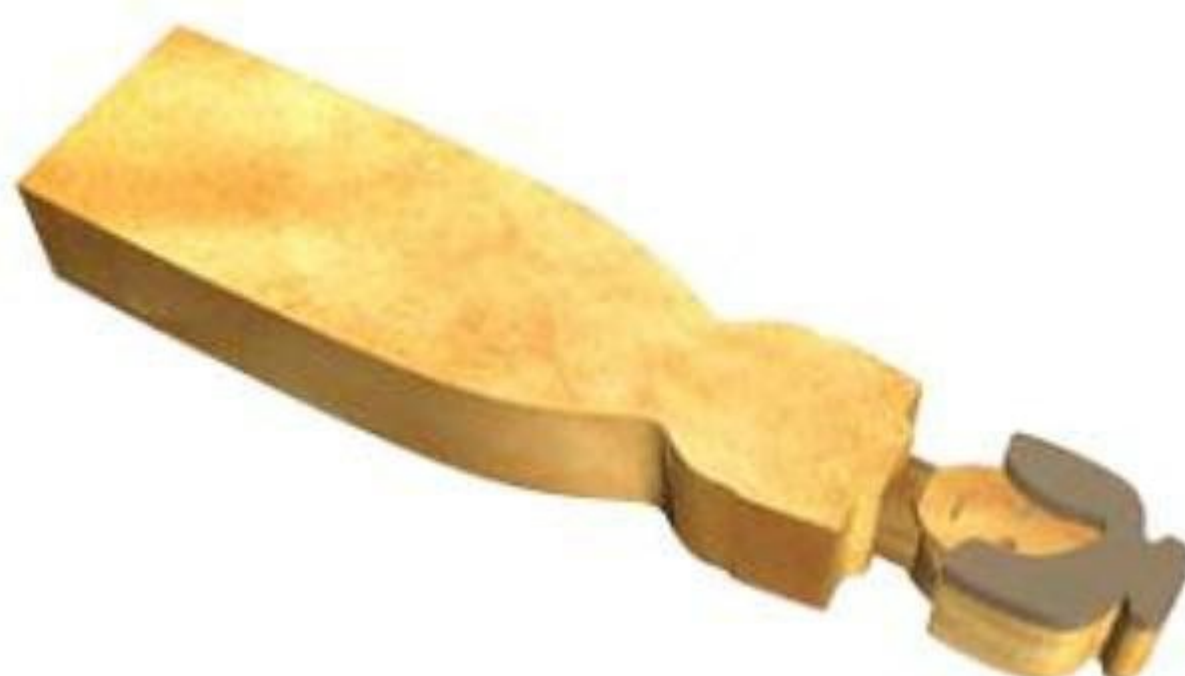
3. Apply glue to the contact surface of the bottom surface of the neck. Press part down and slide around on the body to spread glue evenly. Press firmly into place. Let glue dry thoroughly before proceeding to next step.



4. Apply glue to the bottom surface of the head. The bottom of the head should align with neck in center. You can tilt head left or right to add a little attitude. Squeeze head onto neck and hold in place tightly until the glue sets up.



5. Apply glue to one side of the hairpiece. Squeeze hairpiece into place on head as shown below. Hold assembly in place until glue sets up.



6. Apply glue to contact surface of each arm and the feet. Squeeze arms and feet into place on body making sure that arms align with each other at shoulder. Glue feet in place. Let dry.



FAIR-MAIDEN

scroll saw pattern

You can make a Court full of Fair Maidens using a little imagination and water-based artist's paints to decorate.





Create your own Medieval World and experience the thrill of producing a work of art that you crafted yourself from our easy to follow pattern sets. You can make each of the toys using common materials, supplies and a scroll saw. Every pattern set is a joy to make and safe for play. Make the entire set of Dragons, the War Horse, Brave Knight and Fair Maiden for fun and for sharing with your friends and family.



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