



Sam Keener

Original “2-in-1” Designs for 3D Animals and People

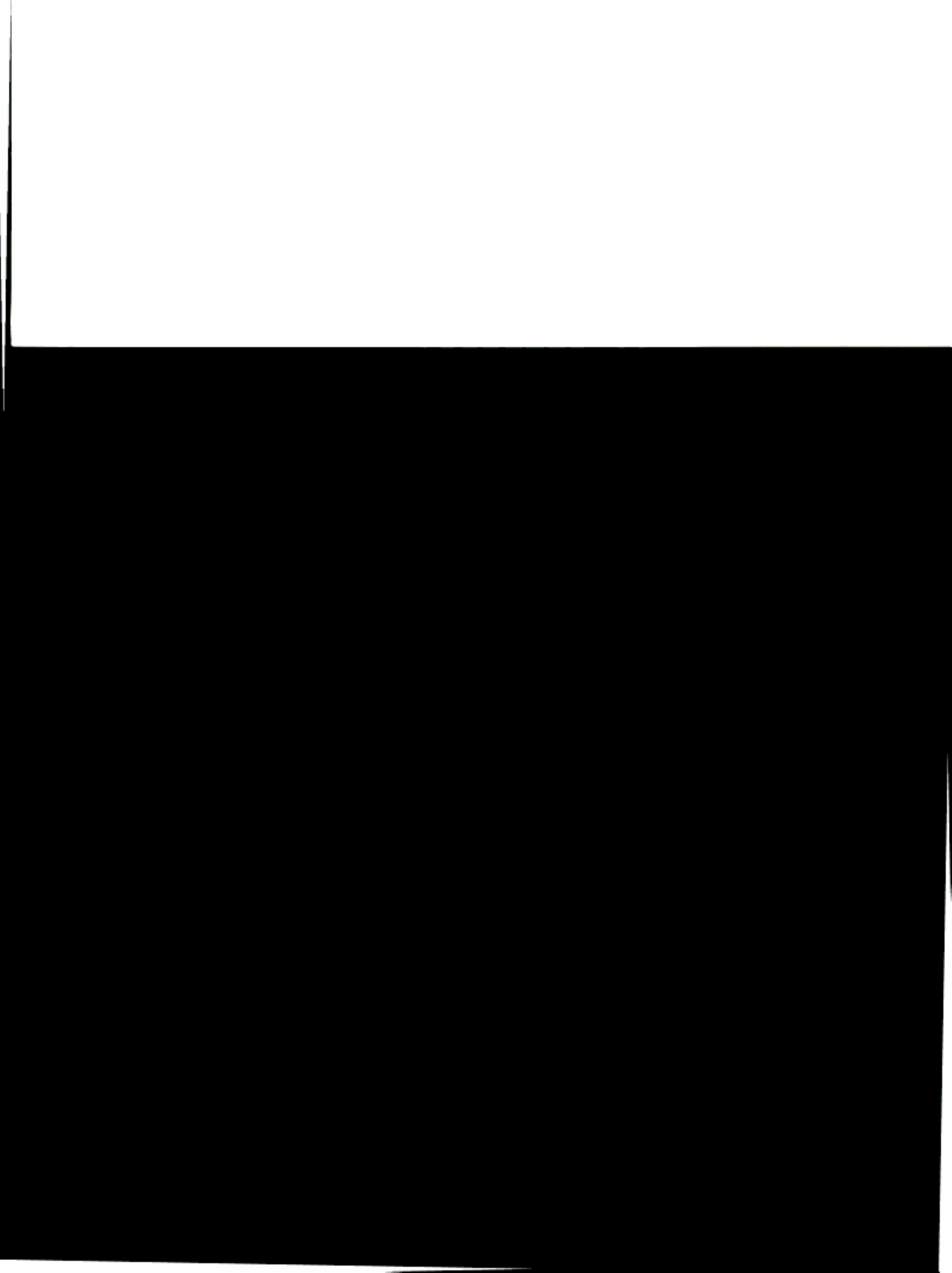


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This One



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Cutting Techniques

Compound scroll saw is a unique cutting technique that allows scrollers to go a step beyond conventional three-dimensional designs. Instead of cutting just one design in the round, you are actually cutting two separate designs for each compound piece. For example, as you'll see in the following sample, one side of the piece is a cactus while the other side is a howling coyote. Many more compound scroll saw designs, each a combination of two objects, follow these brief cutting instructions.

You will need the following tools and supplies to cut the compound figures in this book.

- Copies of the patterns
- Wood blocks approximately $1\frac{3}{4}$ in. by $1\frac{3}{4}$ in. by $4\frac{1}{4}$ in. long
- Hand or belt sander
- Adjustable square or 6-inch ruler
- Pencil
- Glue stick
- Transparent tape
- Hand drill or drill press (for inside cuts)
- $\frac{1}{8}$ in. drill bit (for inside cuts)
- Scroll saw
- Selection of scroll saw blades (#5, #7 and #9)
- Emery boards, small file or fine-grit sandpaper
- Scissors

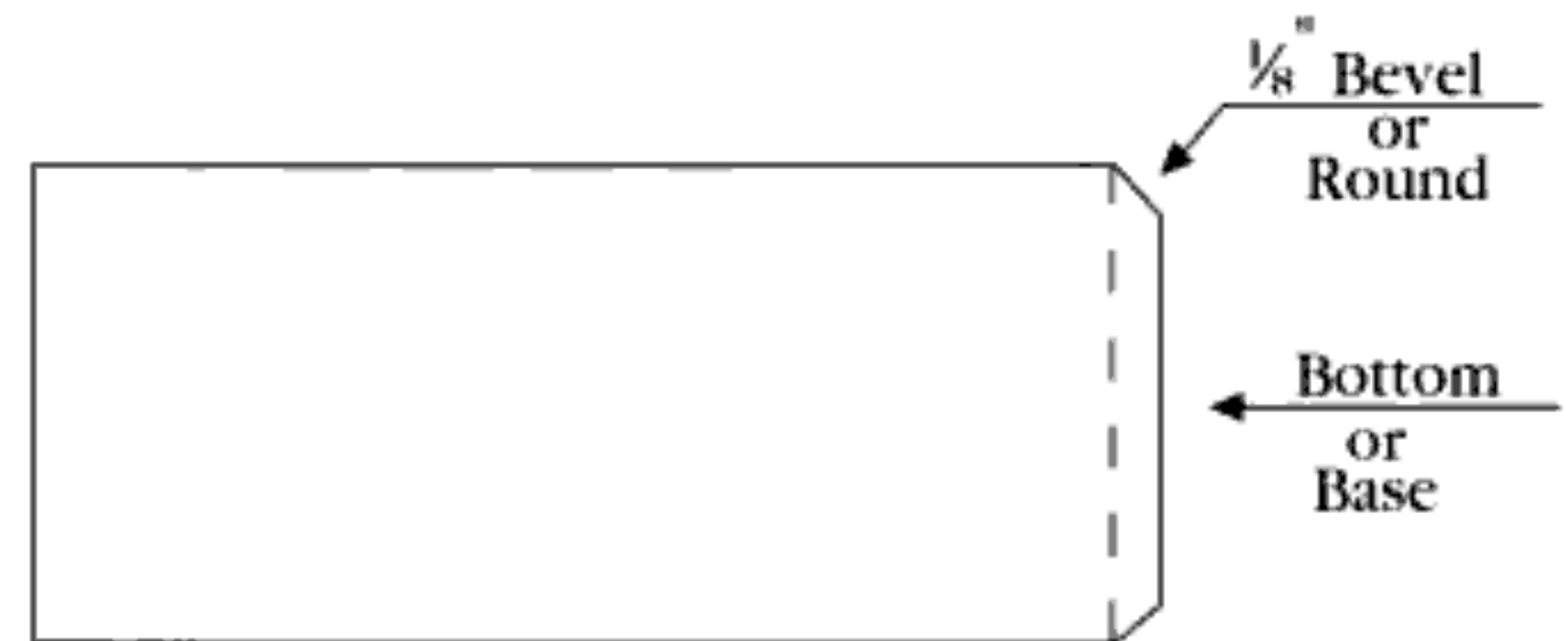
You are now ready to start.

Step 1: Block Preparation

Any type of wood may be used for cutting the compound figures, from softwoods, such as pine, to hardwoods, such as oak. Blocks should be cut to size. This can be done several ways. You can purchase 2-inch-thick wood and cut $1\frac{3}{4}$ -inch-wide strips or purchase 2-inch lathe-turning squares. When you have your strips, cut them to length, approximately $4\frac{1}{4}$ inches long.

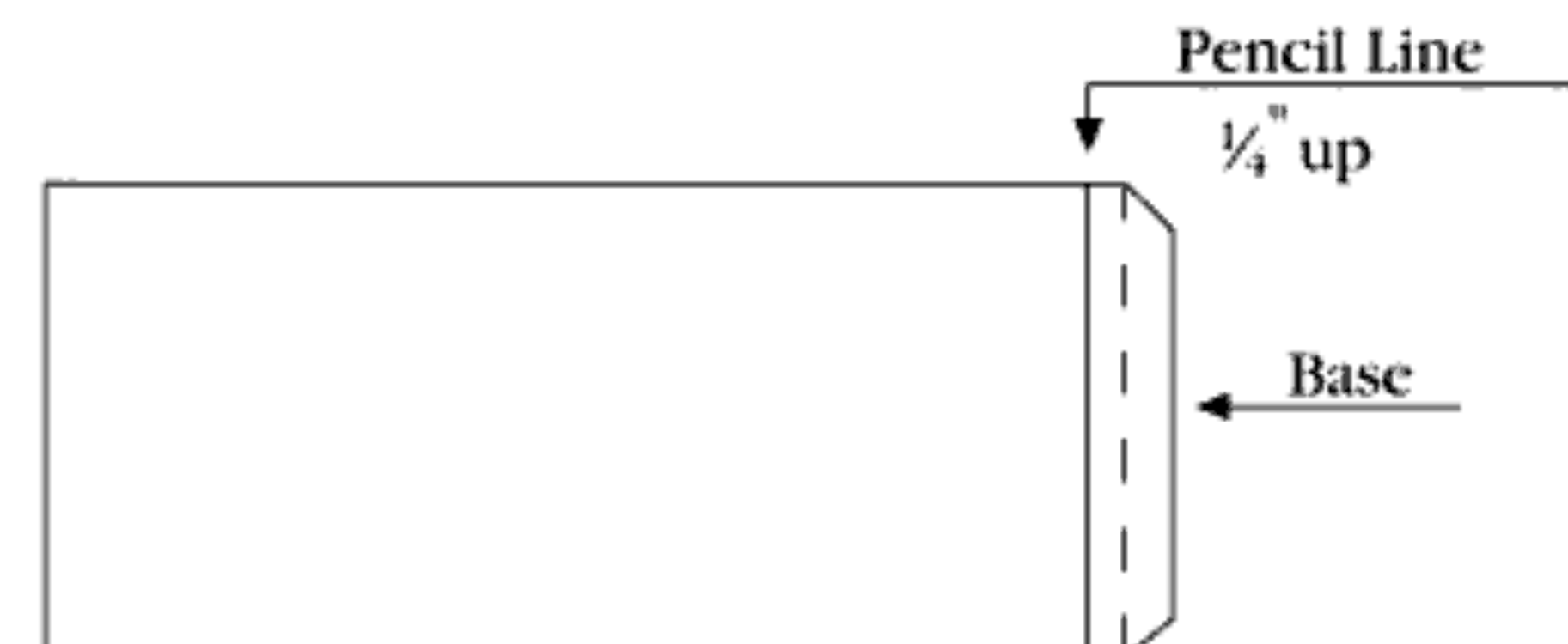
Step 2: Sand Surfaces and Round Edges

Lightly sand all four sides of the block and bevel or round the bottom edges. (See the illustration below.) This makes the piece more appealing to the eye. The beveled or rounded end will now become the base for the figure.



Step 3: Measure

Using the adjustable square or 6-inch ruler, measure up one quarter inch from the base of the block and draw a pencil line. (See the illustration below.) Repeat this procedure on all four sides. This line is used to line up the bottom edge of the pattern designs.

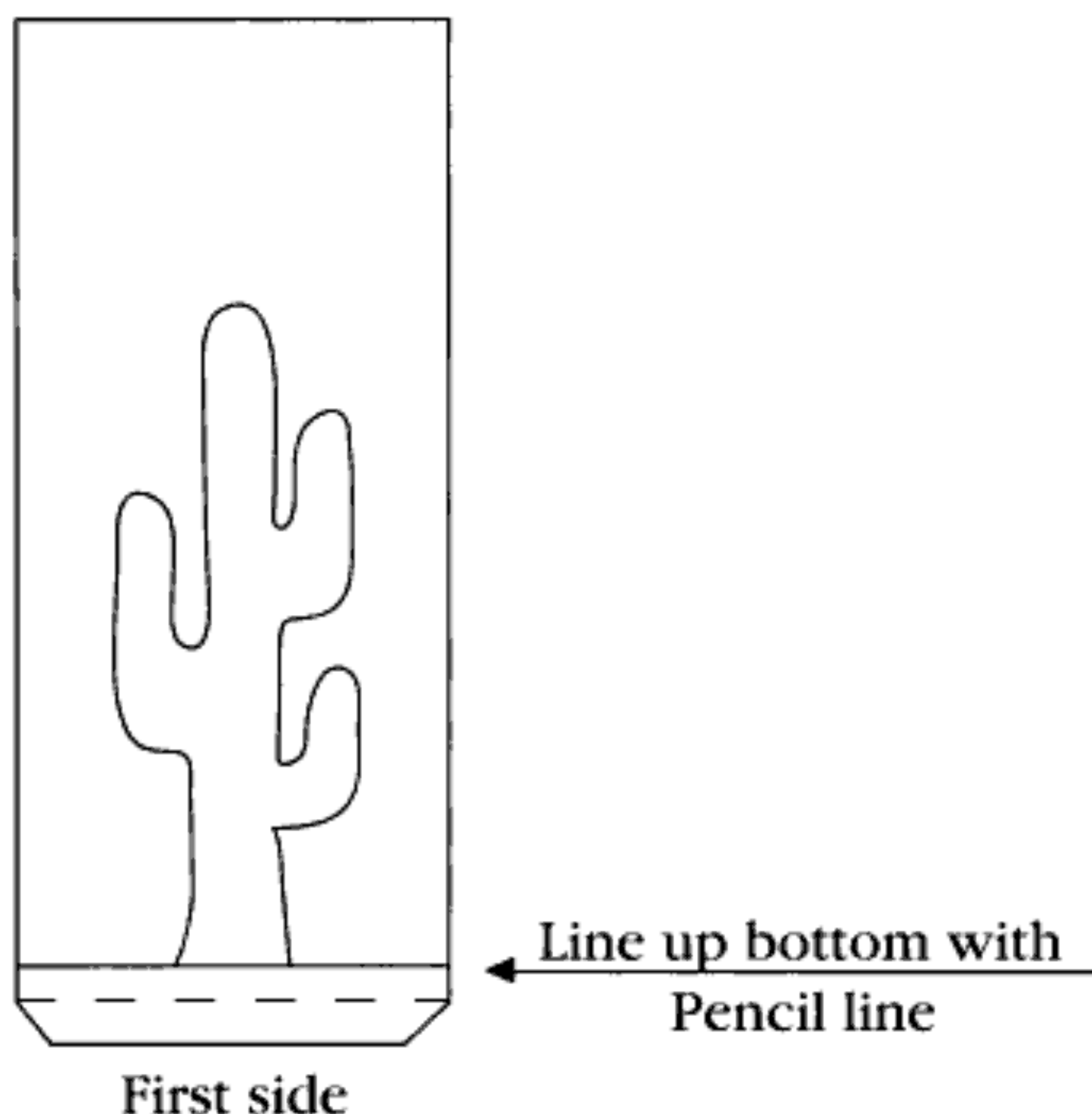


Step 4: Prepare Patterns

Photocopy or scan the patterns from the book. Using scissors, cut the patterns out to $1\frac{3}{4}$ in. wide, the approximate width of the wood blocks.

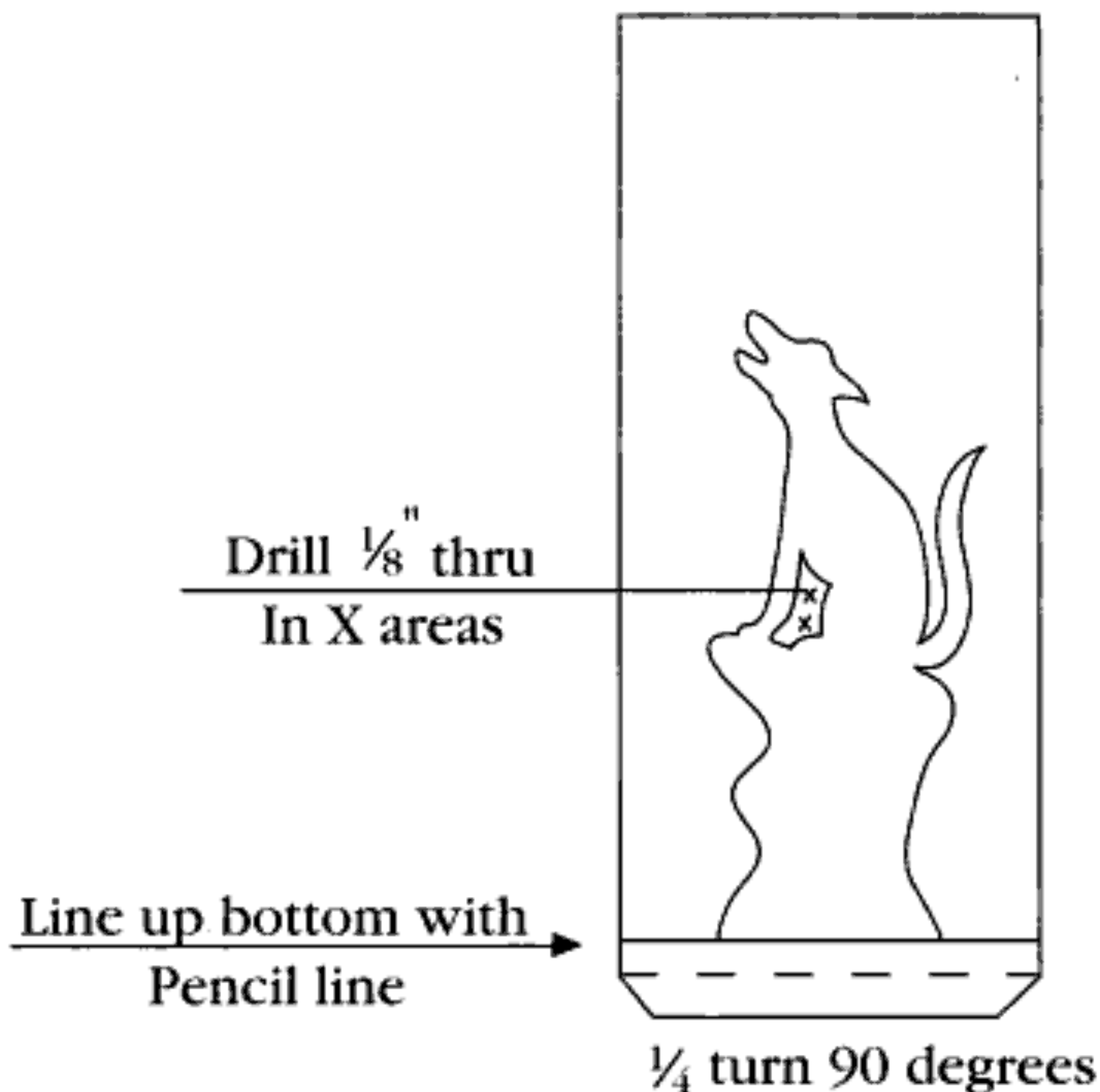
Step 5: Apply Patterns

Using the glue stick, apply glue to the back of pattern and place the pattern on the wood block. Line up the bottom of pattern design with the pencil line that you drew on the block in Step 3. Rotate the wood block 90 degrees, or one-quarter turn, and glue the other half of the pattern design to that side of the block. (See the illustration below.)



Step 6: Drill Starter Holes

Some of the pattern designs will require inside cuts. These areas will be marked with an "X" on the patterns. Using a hand drill or a drill press with a $\frac{1}{8}$ in. drill bit, drill completely through the block in the areas marked with an "X." (See the illustration below.) These drill holes will enable you to insert the saw blade through the block to begin the inside cuts.

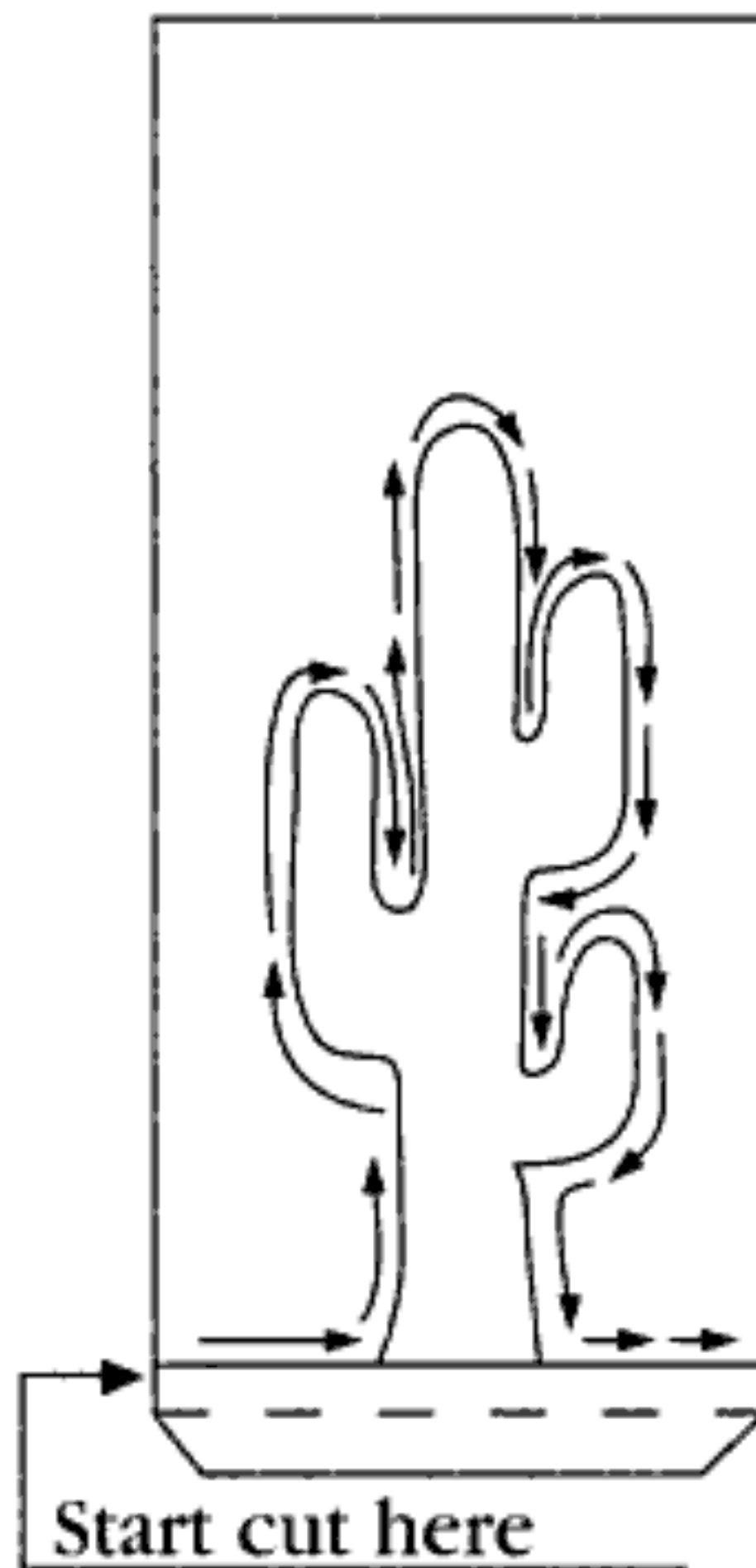


Step 7: Make the Inside Cuts

You are now ready to start cutting. Make all of the inside cuts first. Using the $\frac{1}{8}$ in. holes as starters, carefully insert your blade in the starter hole and cut around the inside lines of the pattern.

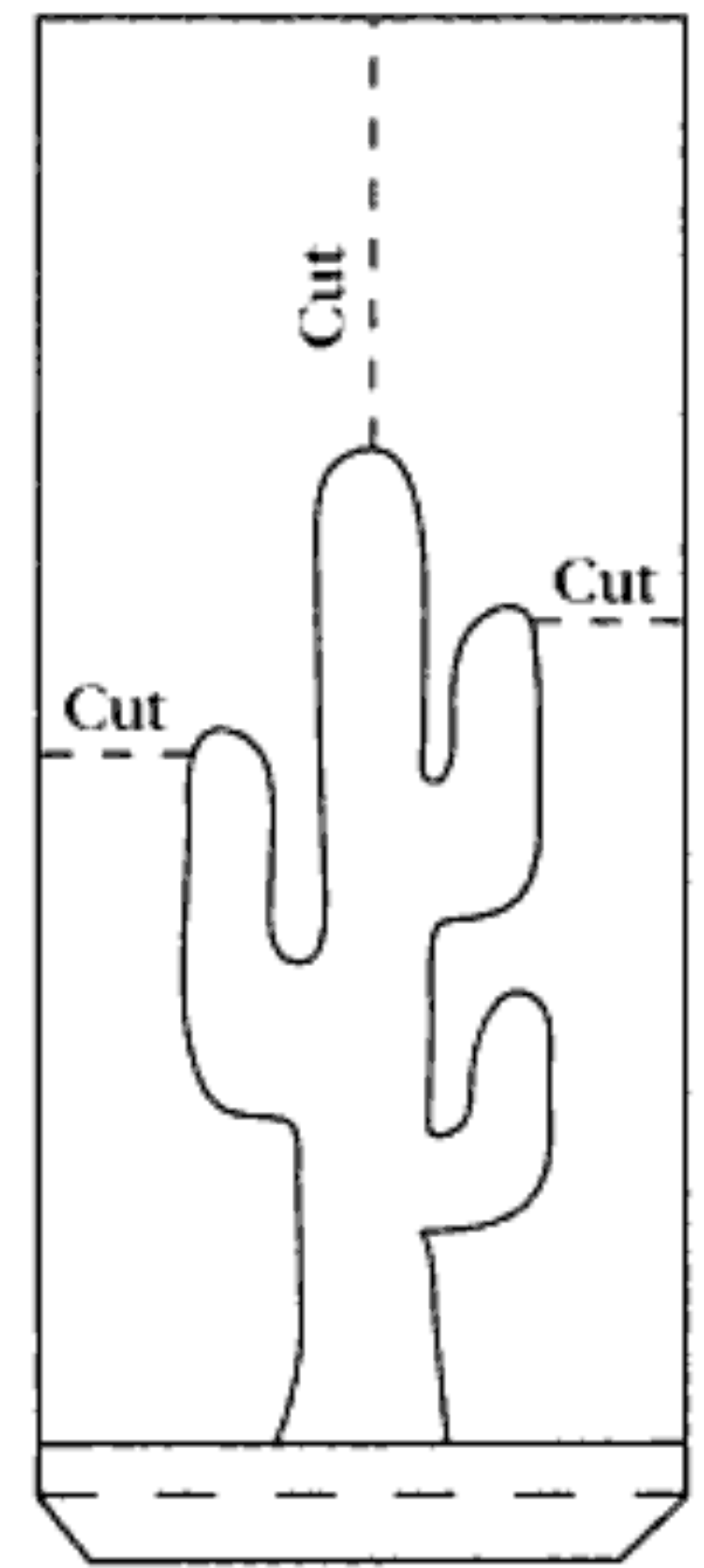
Step 8: Make the Outside Cut

Next, make the outside cut. Start your cut from the bottom of the block line, saw the pattern line, then follow the contour of the pattern to the opposite side. Bring your saw out on block line. (See the illustration at right.)



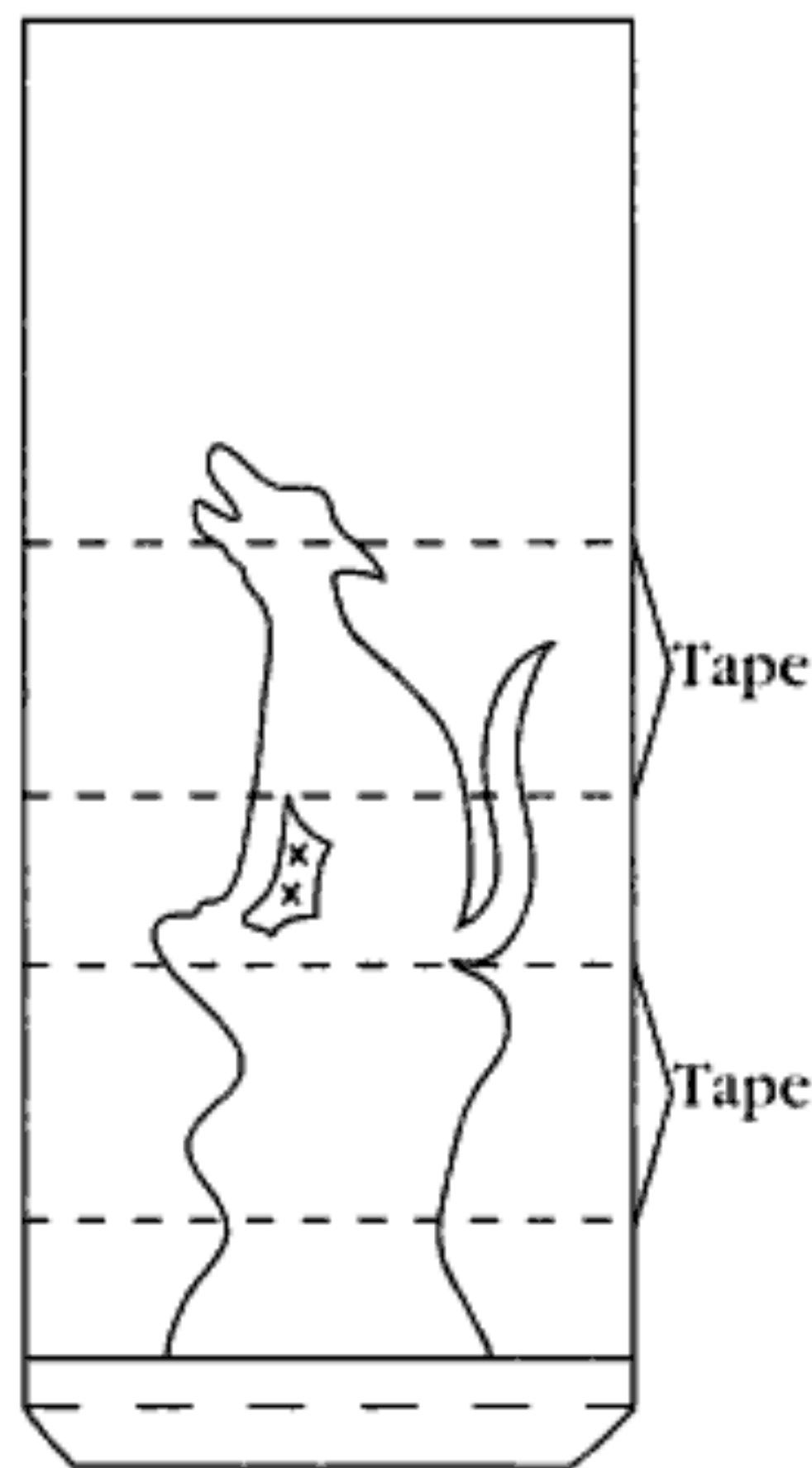
Step 10: Cut the Second Side

You can now cut out the other side of the design. Follow the same procedures you used to cut the first side. When you are finished cutting, if the figure doesn't slide out, cut away waste areas from around the pattern lines to free the figure. (See the illustration at right.)



Step 9: Secure the Piece

After sawing out the first side, use two strips of transparent tape to tape completely around the top of the block and the bottom of the block. (See the illustration at right.) The tape will help keep the cut piece from sliding back and forth.

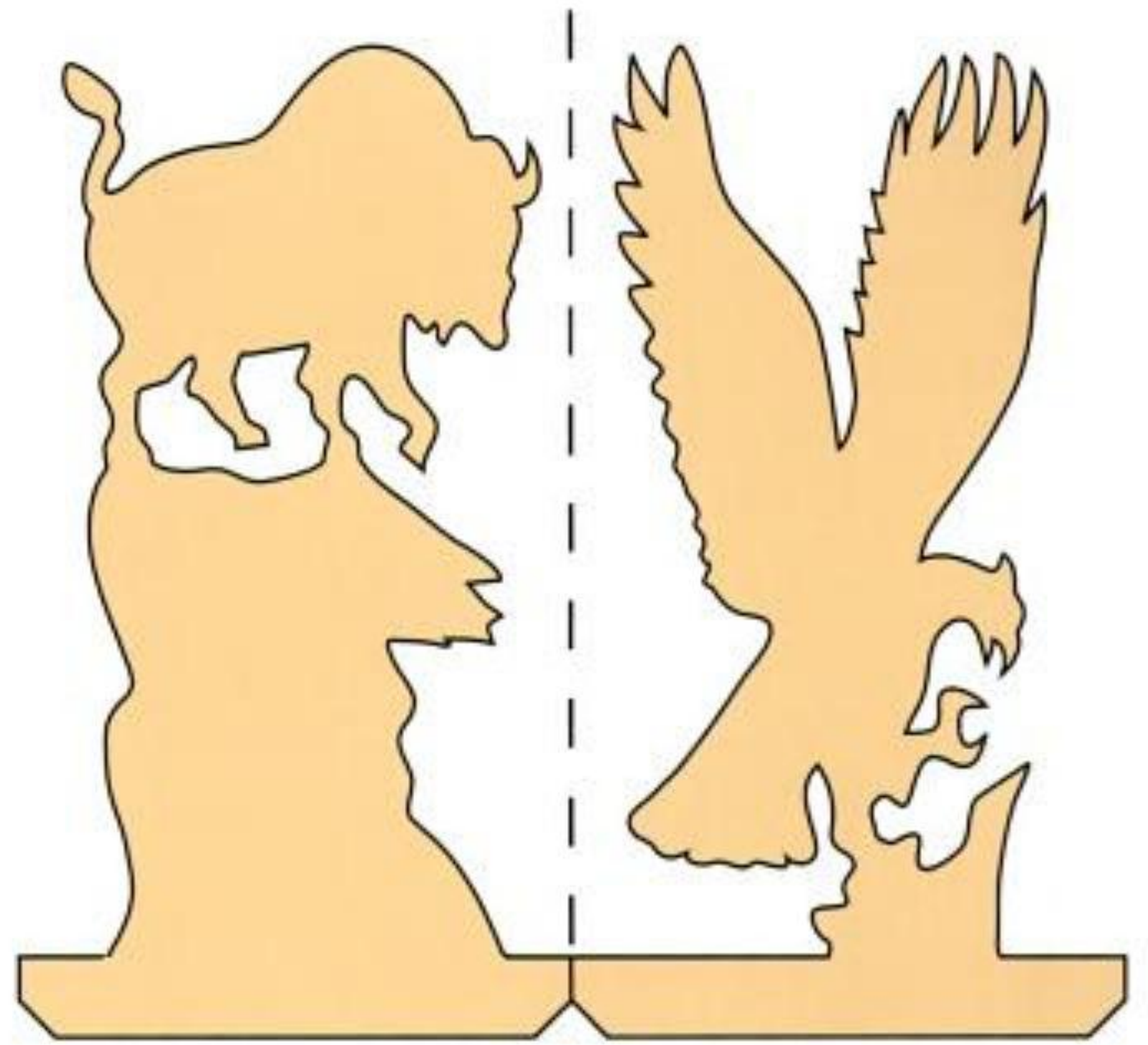


Finishing

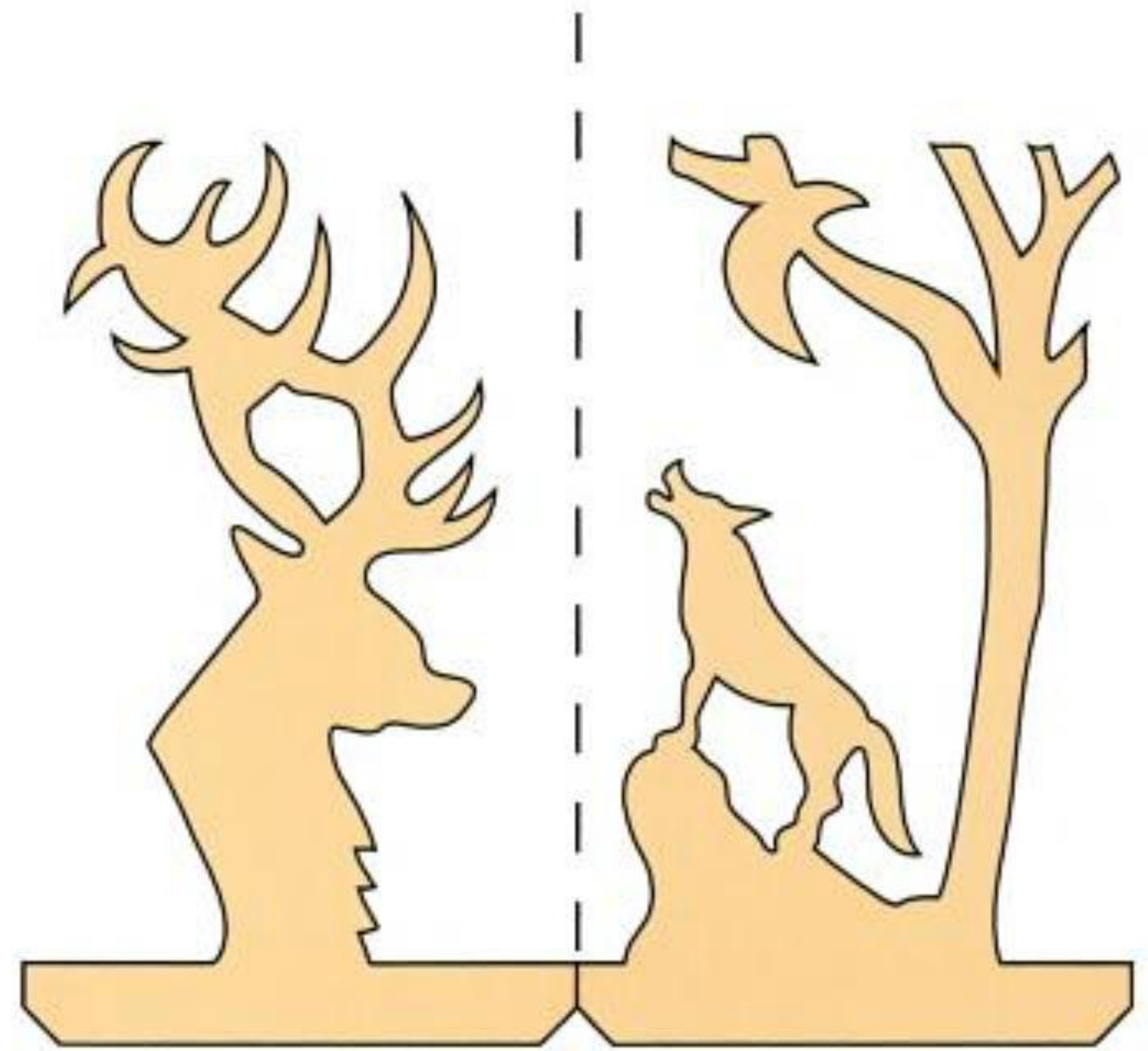
You are now ready to finish your figure. First, remove the saw fuzz with an emery board, a small file or a strip of fine-grit sandpaper. Use care in this step as some of the figures are very delicate. When you have completed the sanding, remove all dust from the figure by using a container of compressed air or a soft-bristled paint brush. Add a final finish to your piece with tung oil, clear spray or tole paint. You may also decide to leave the figures natural. This is your decision.

You now have a completed compound figure. Use the patterns on the following pages to create more compound figures, or design your own.

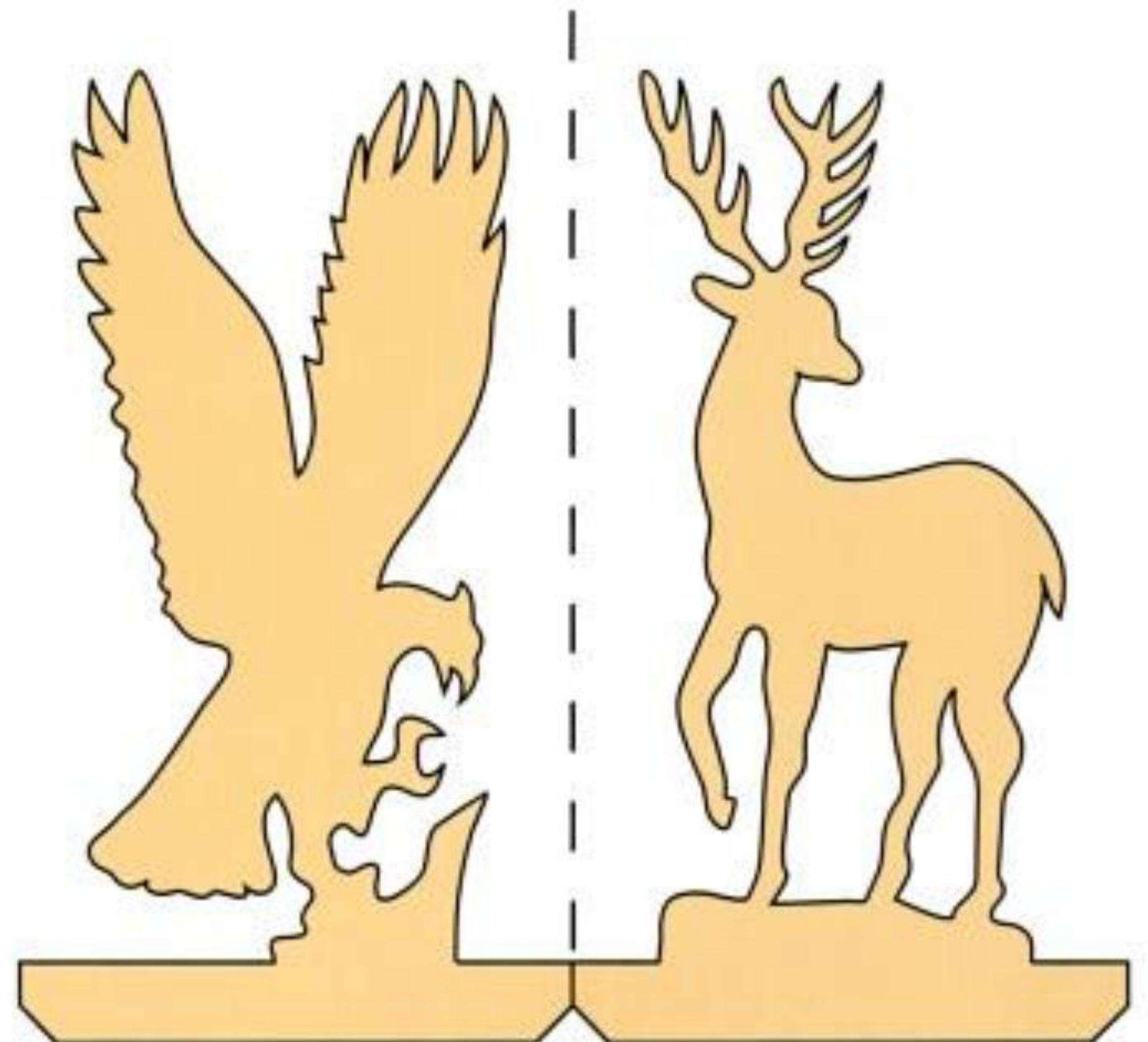
Buffalo & Swooping Eagle



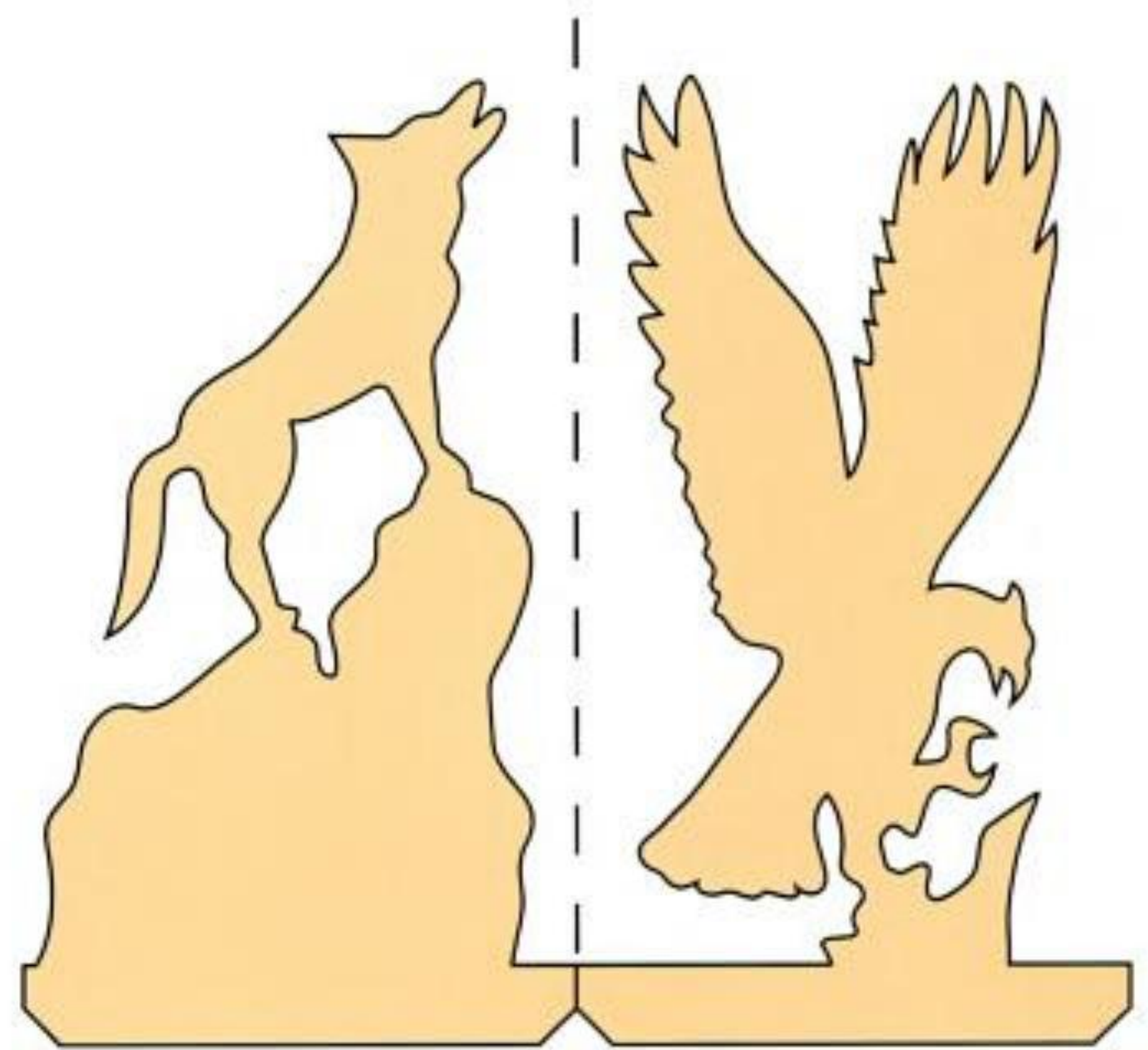
Deer Bust & Moonlight Wolf

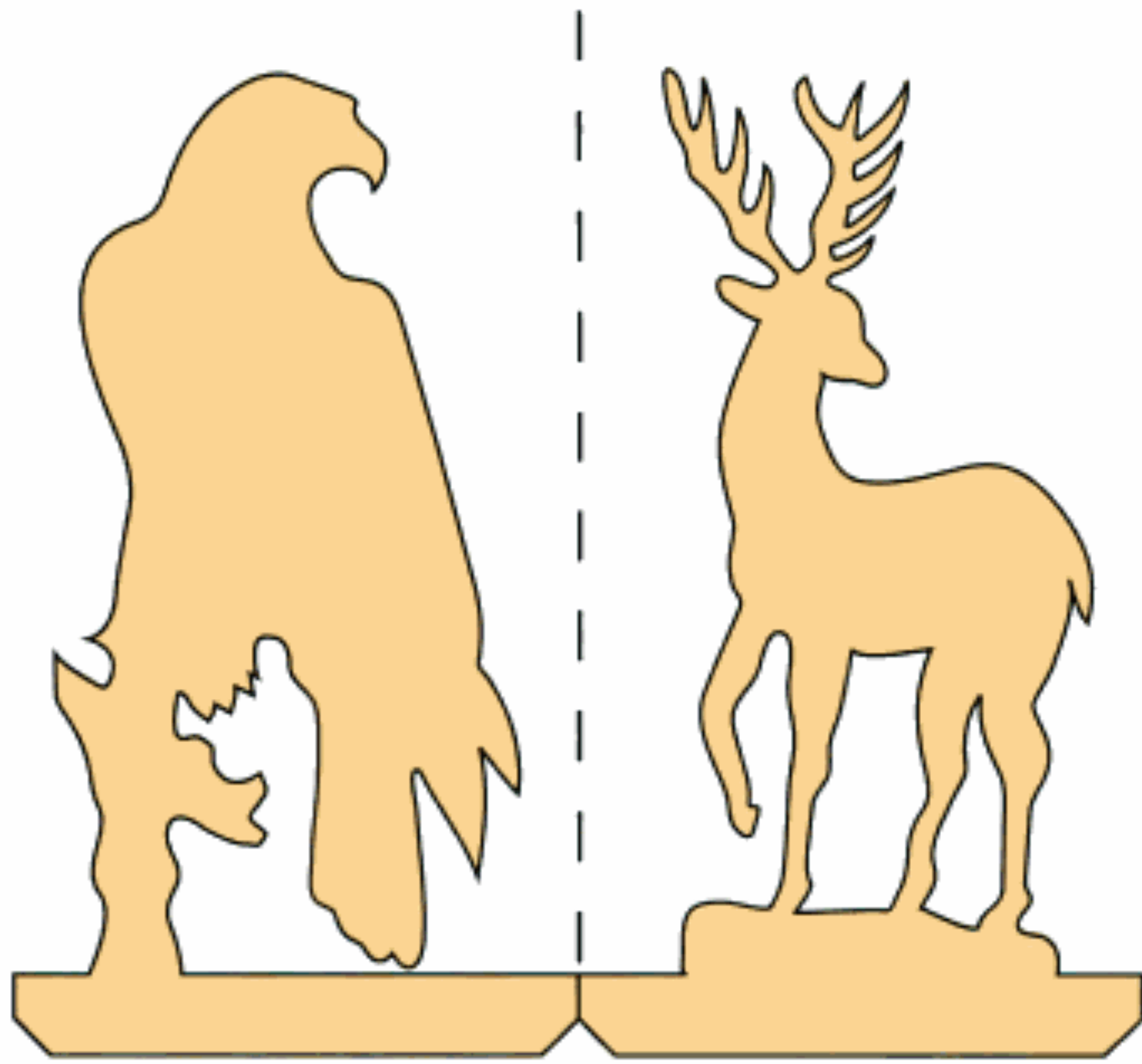


Standing Deer & Swooping Eagle

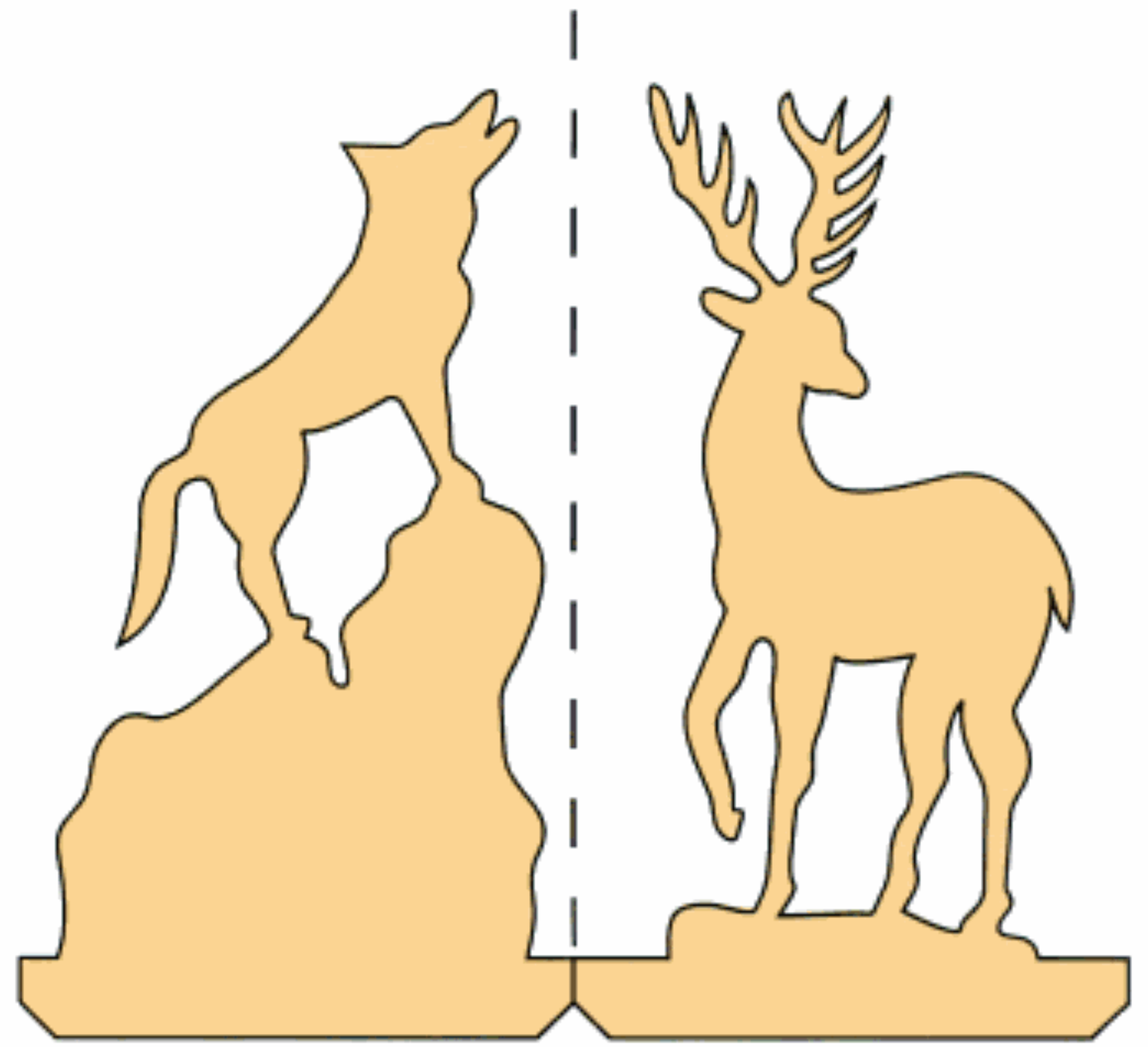


Swooping Eagle & Howling Wolf

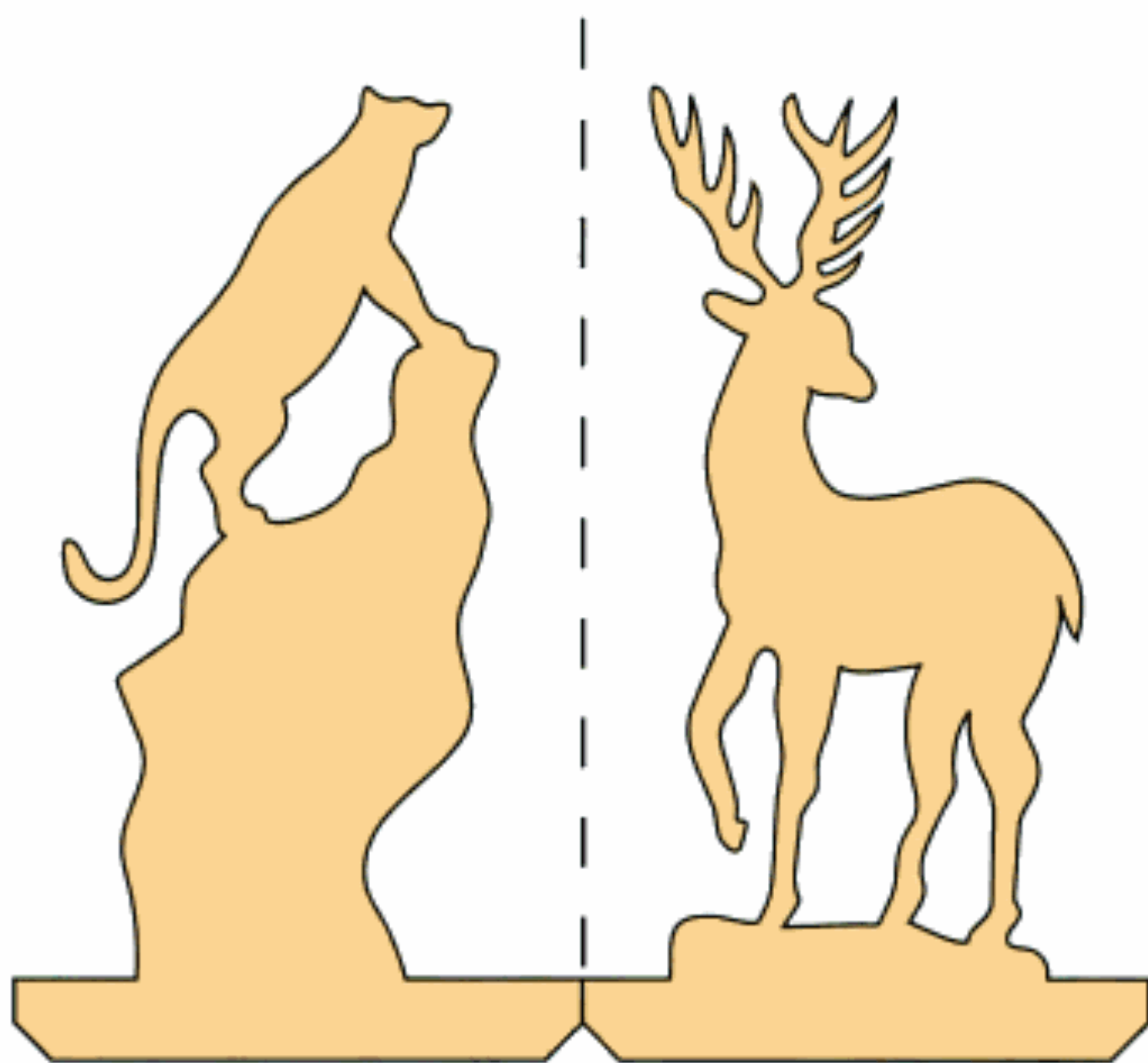




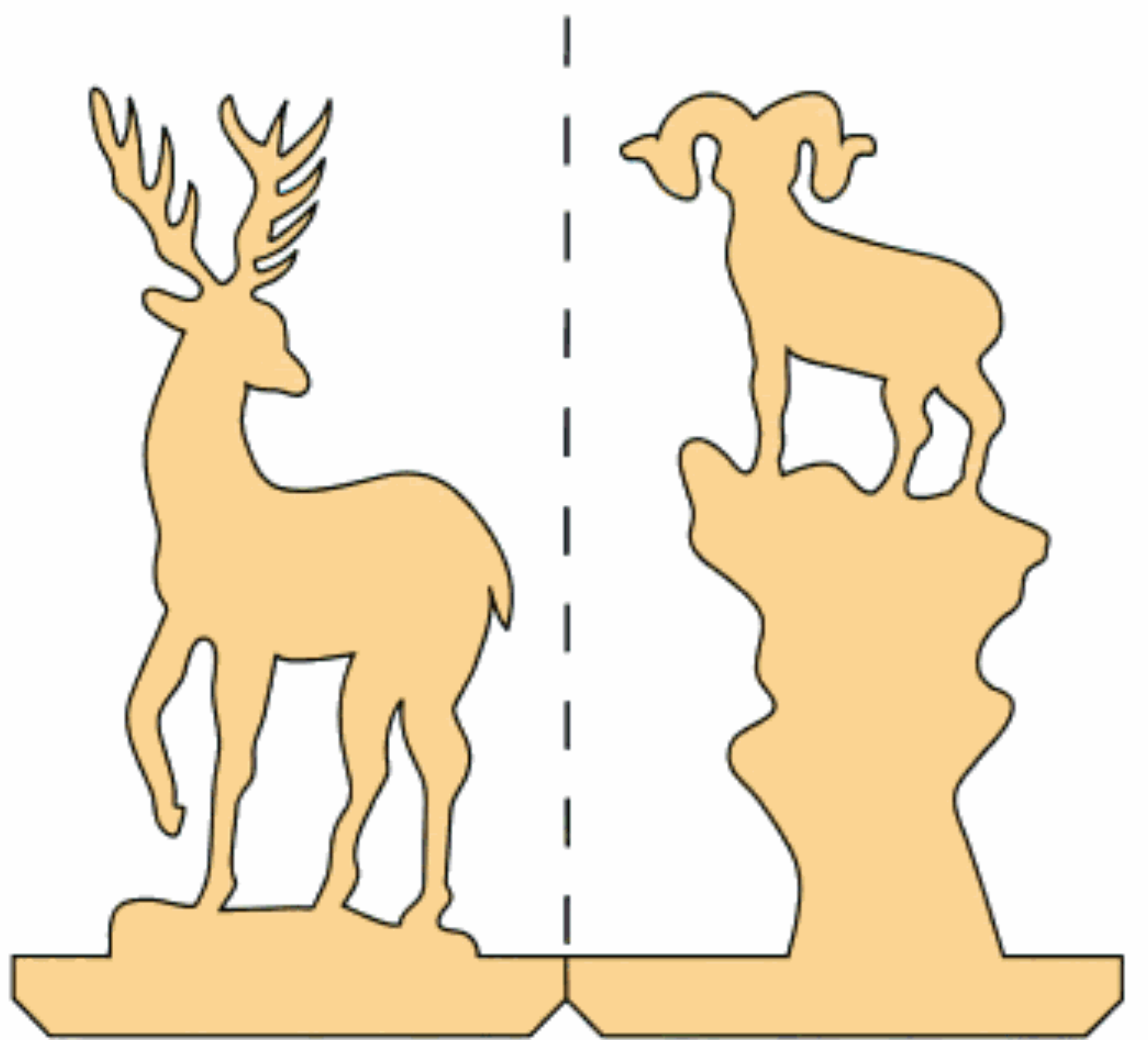
Perched Eagle & Standing Deer



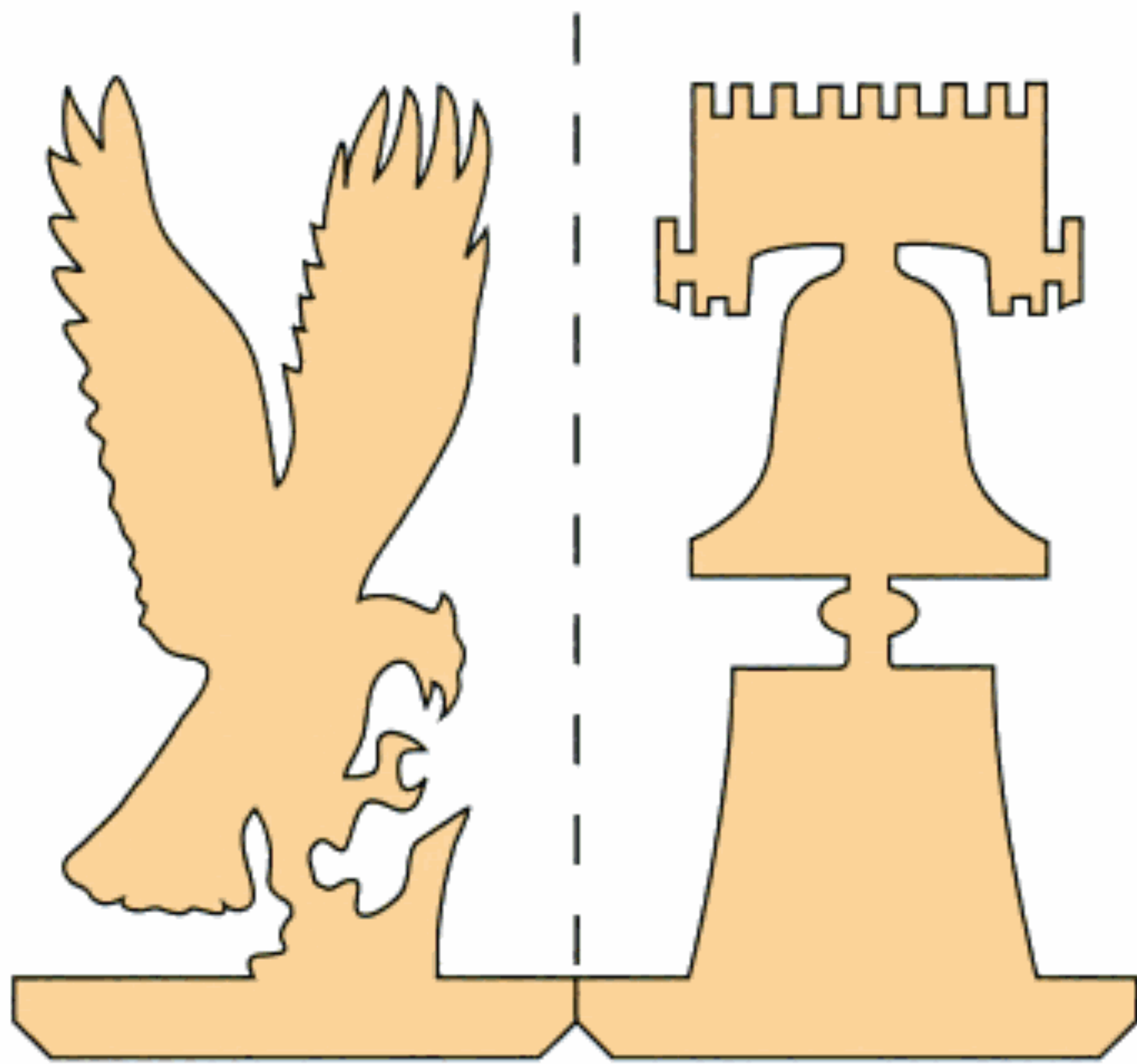
Howling Wolf & Standing Deer



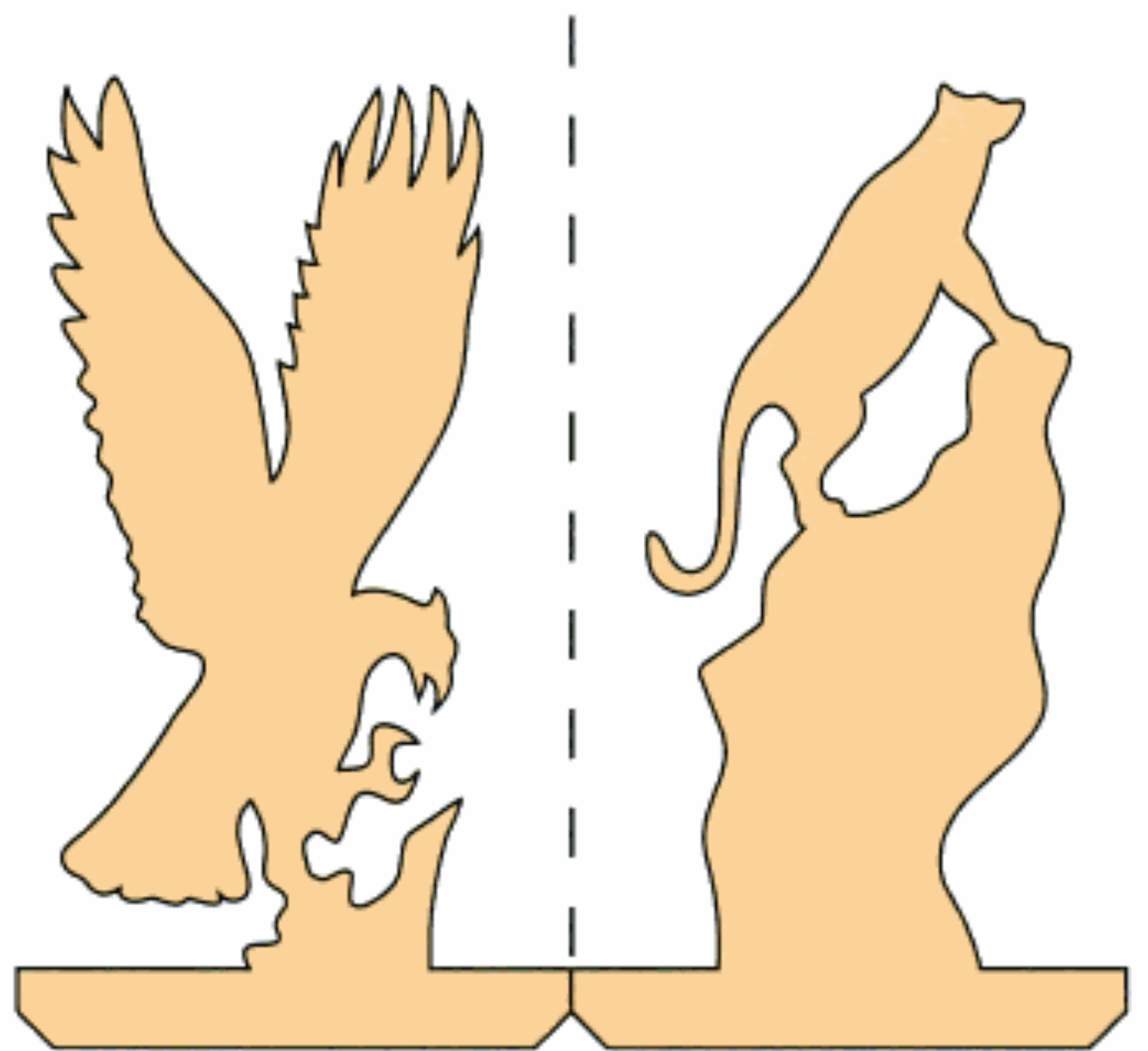
Cougar & Standing Deer



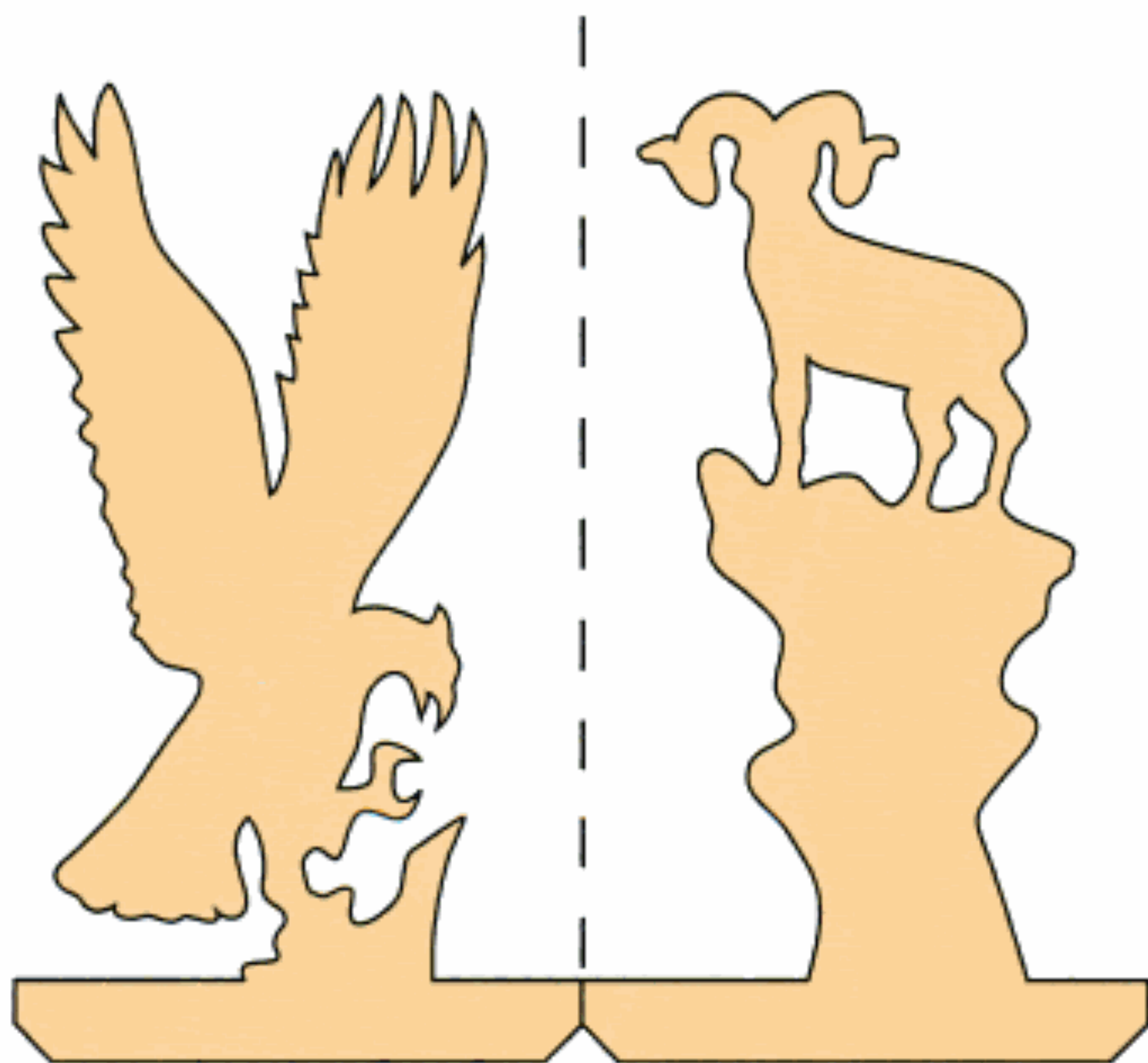
Standing Deer & Mountaintop Ram



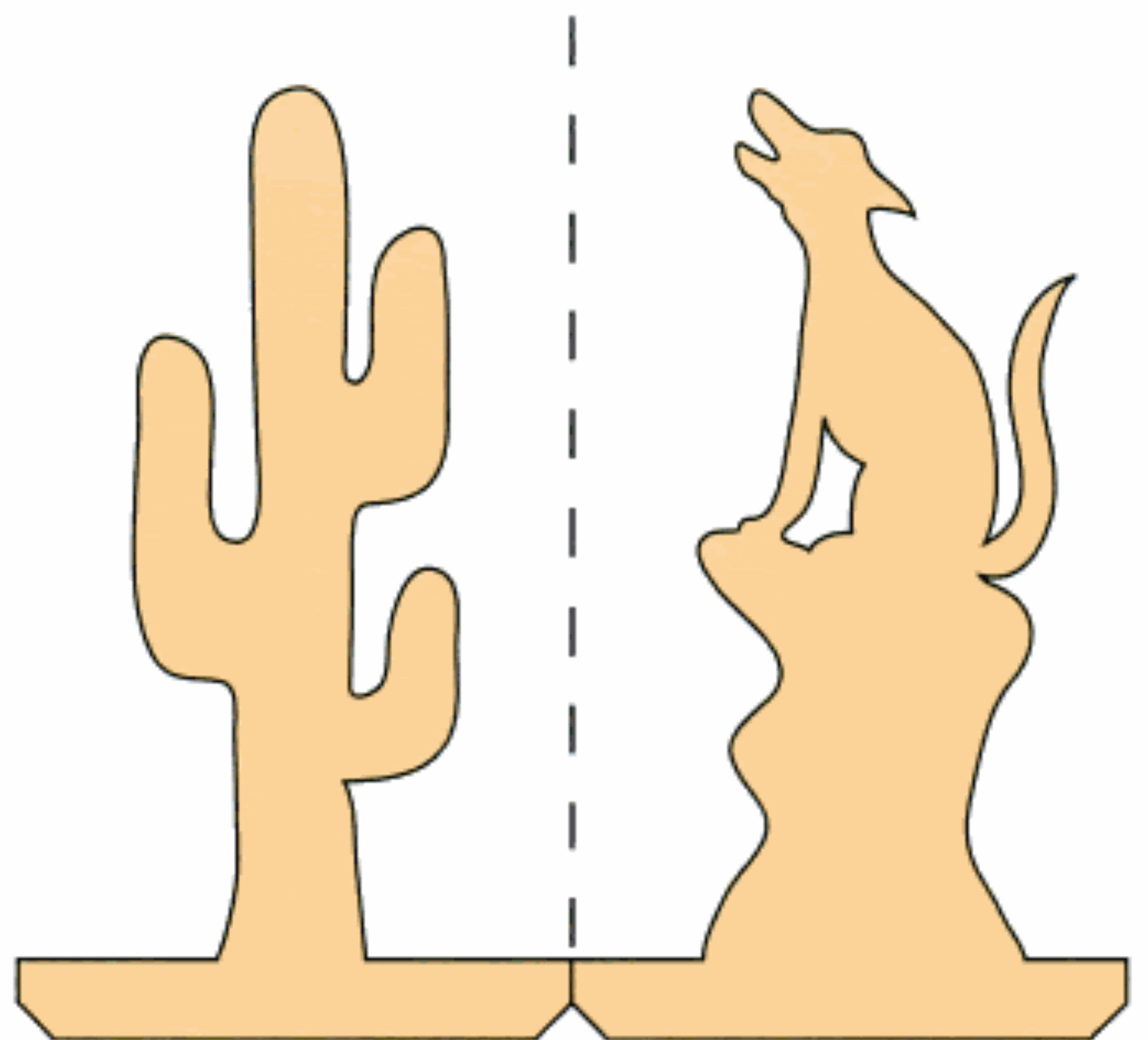
Swooping Eagle & Liberty Bell



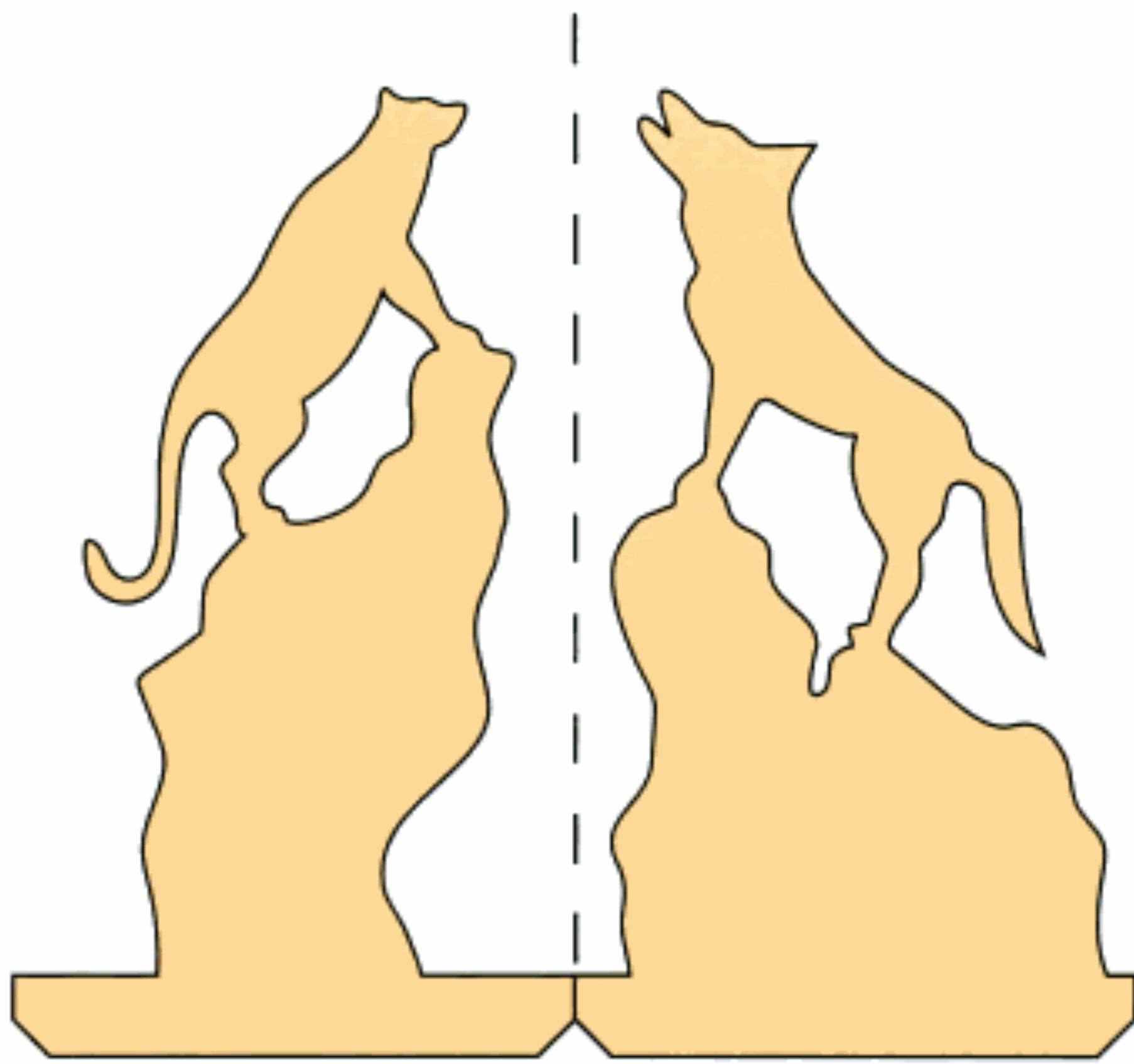
Swooping Eagle & Cougar



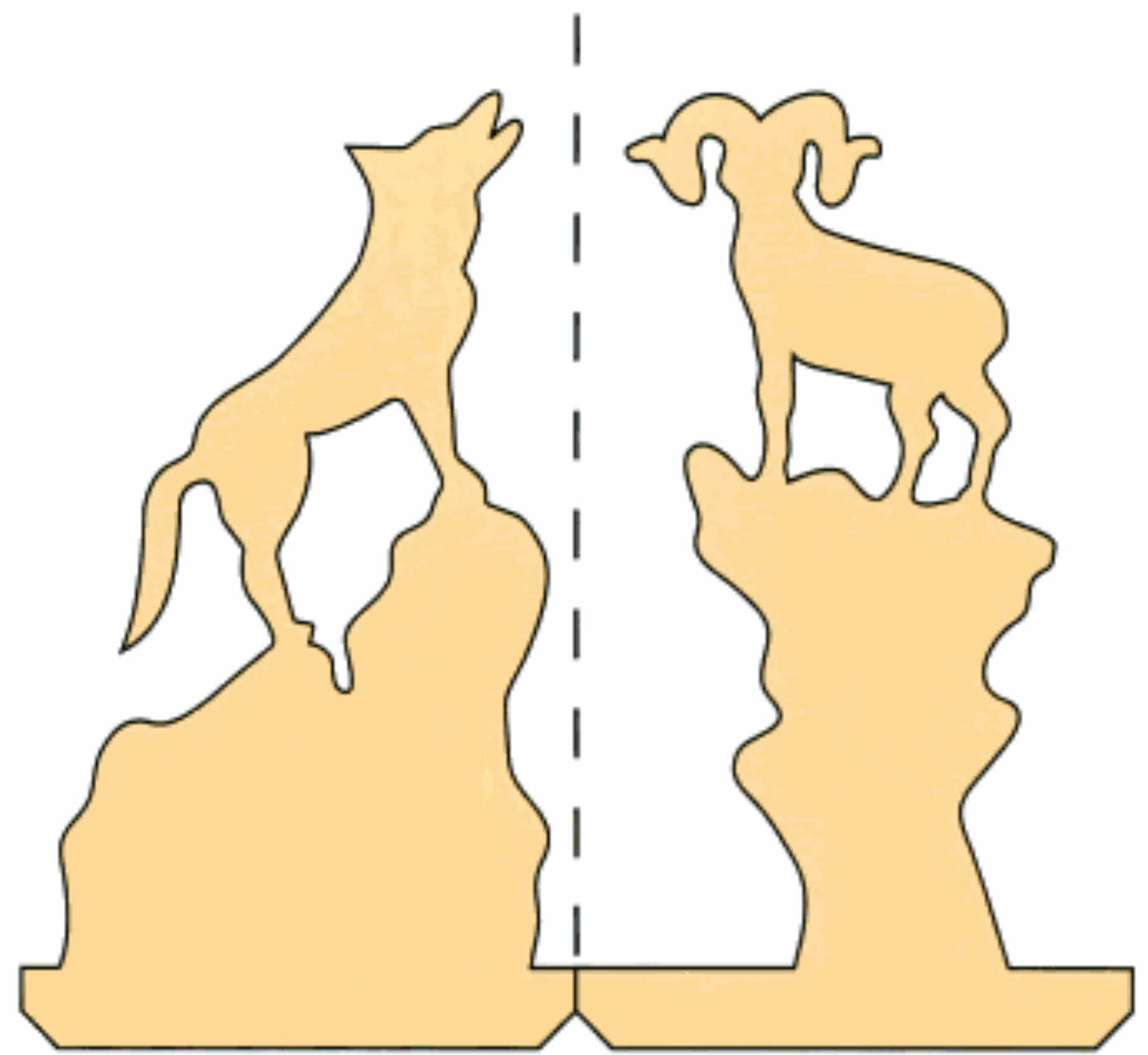
Swooping Eagle & Mountaintop Ram



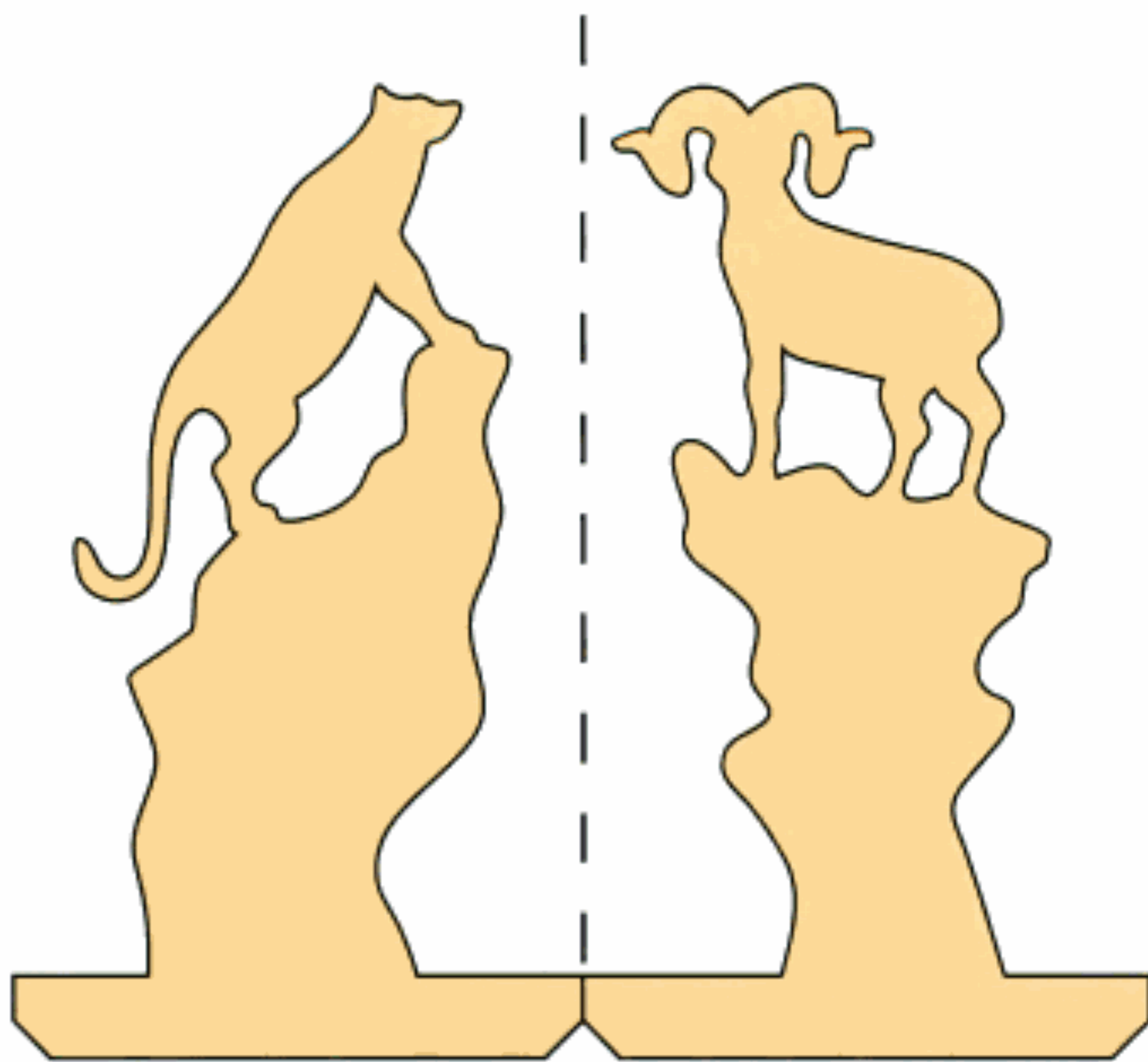
Cactus & Desert Coyote



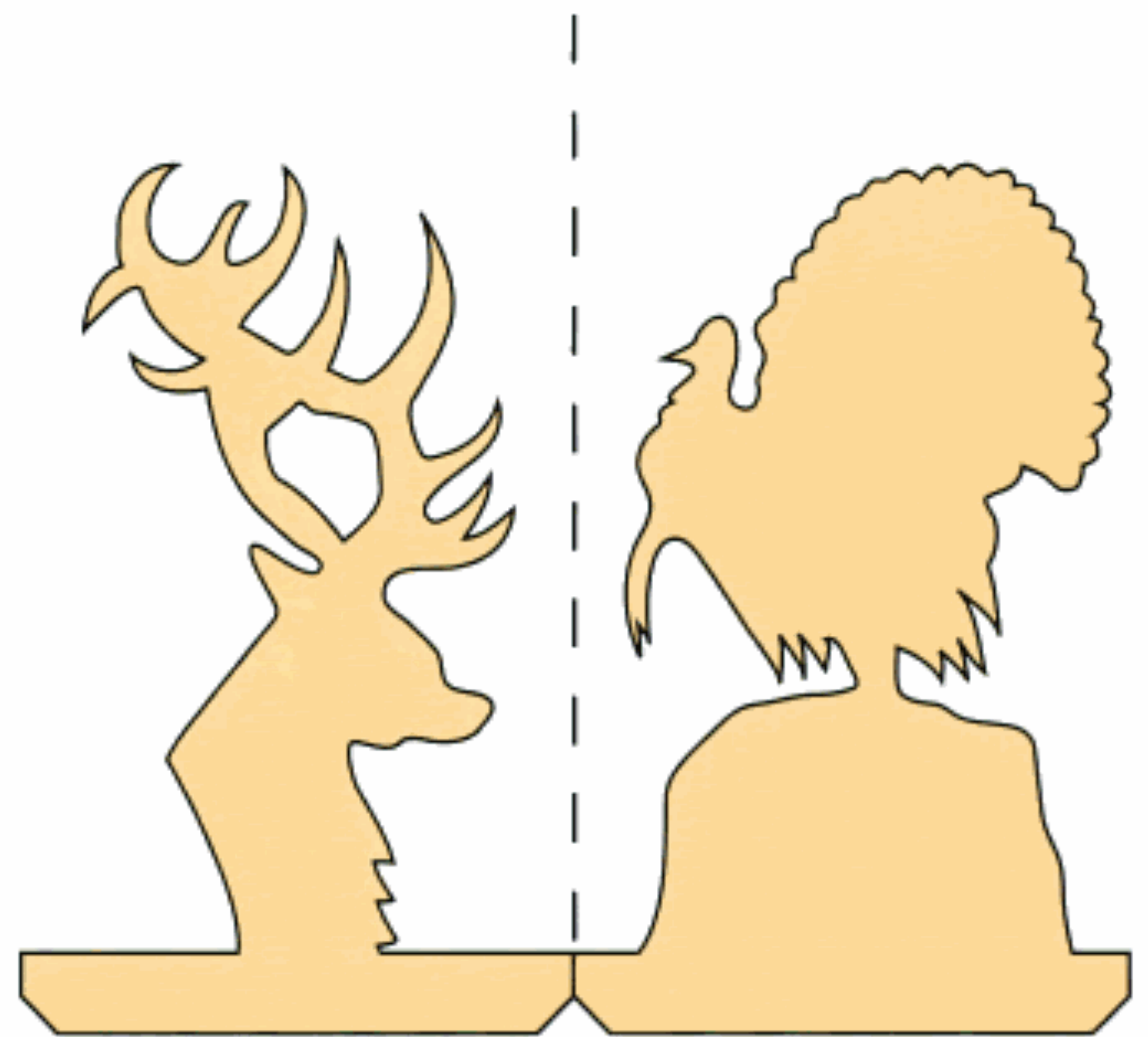
Cougar & Howling Wolf



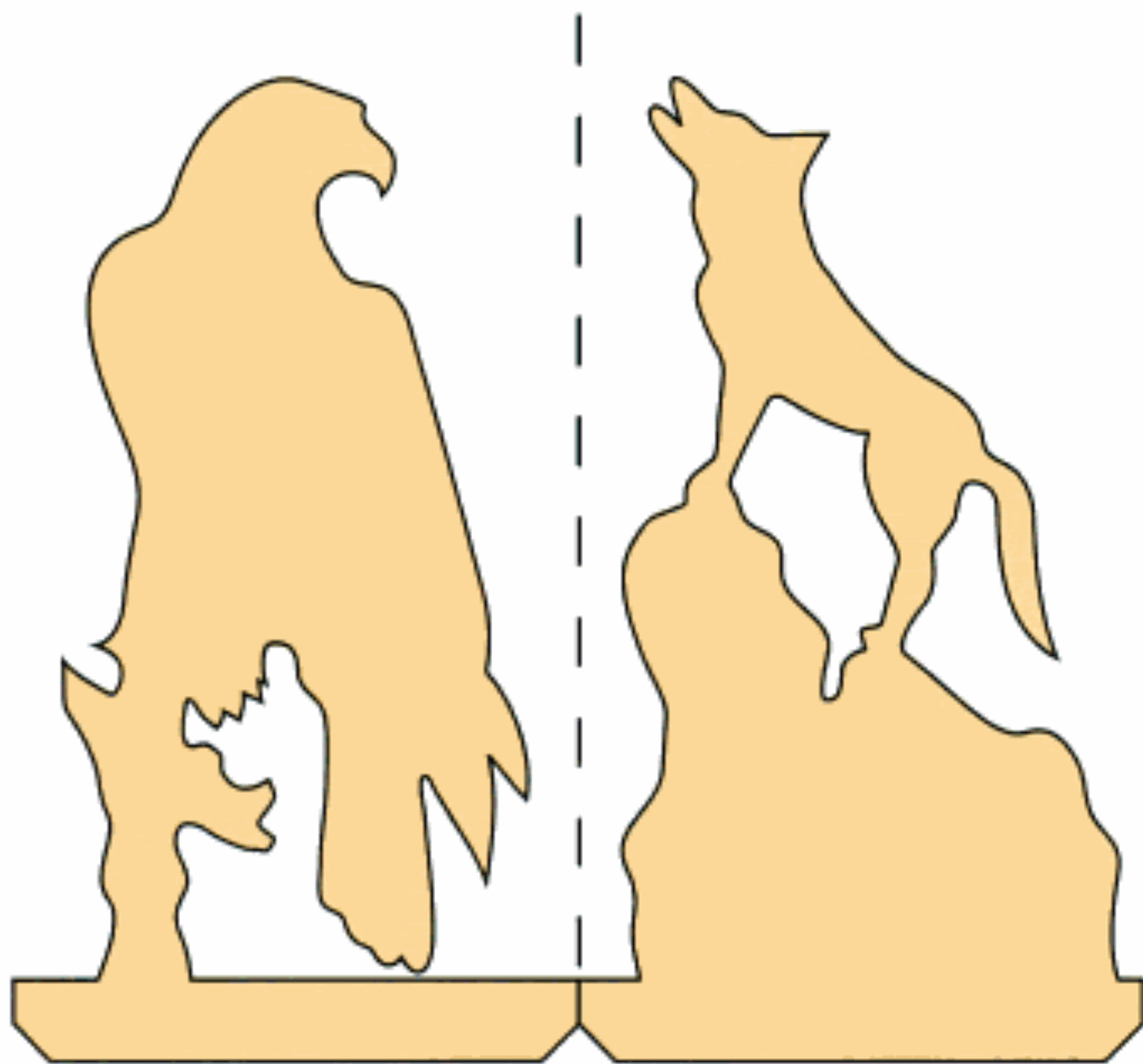
Howling Wolf & Mountaintop Ram



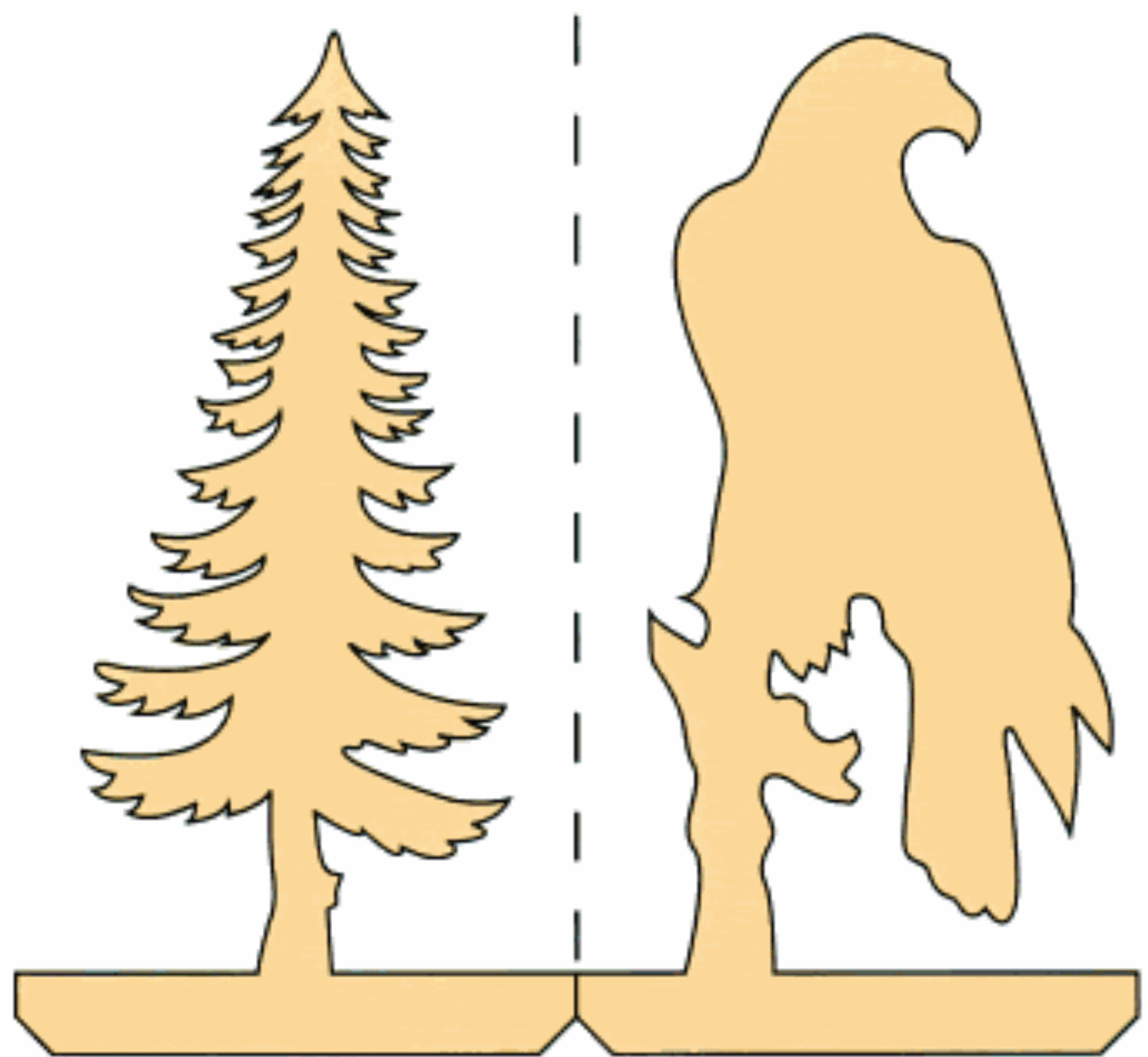
Cougar & Mountaintop Ram



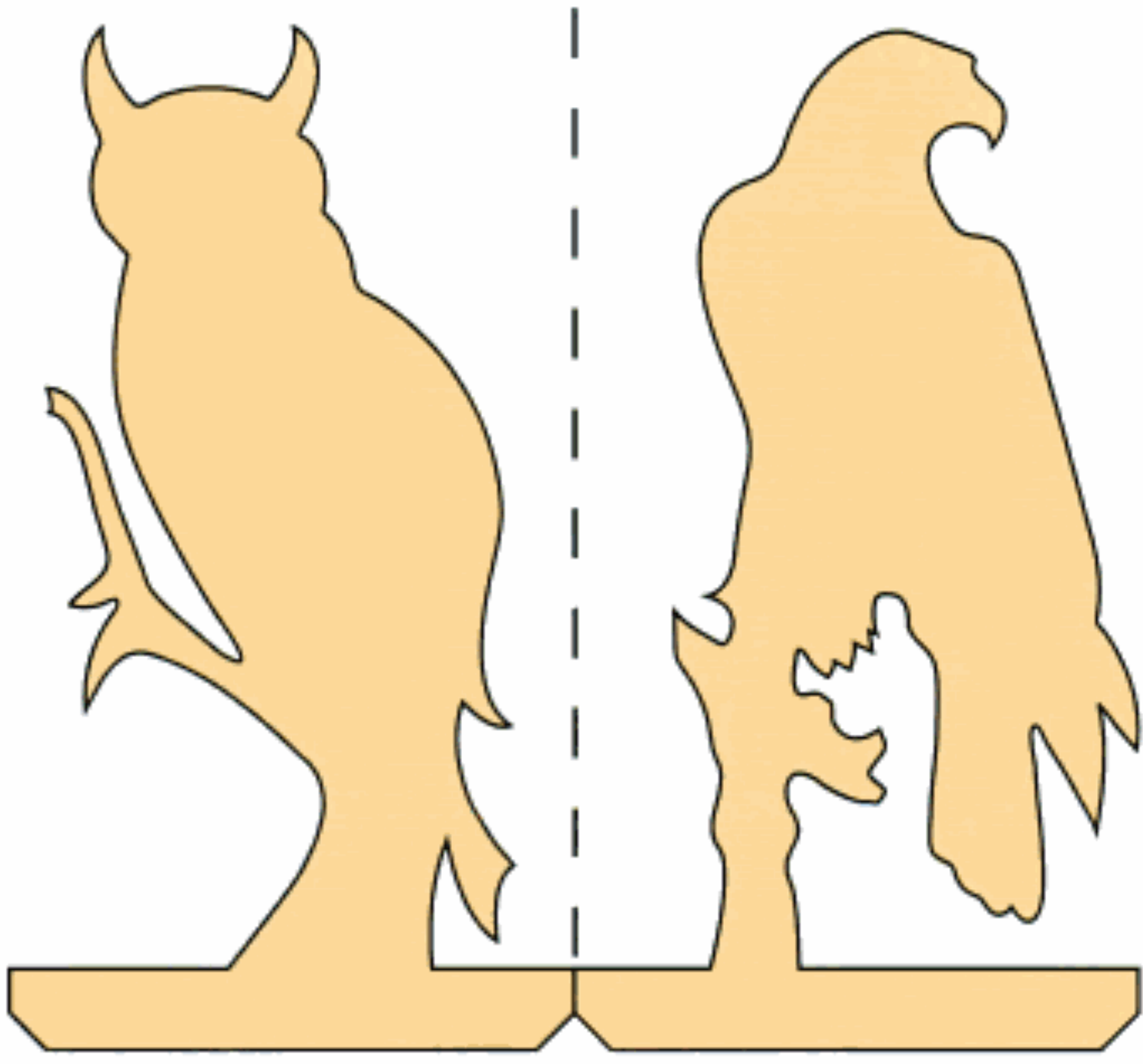
Deer Bust & Wild Turkey



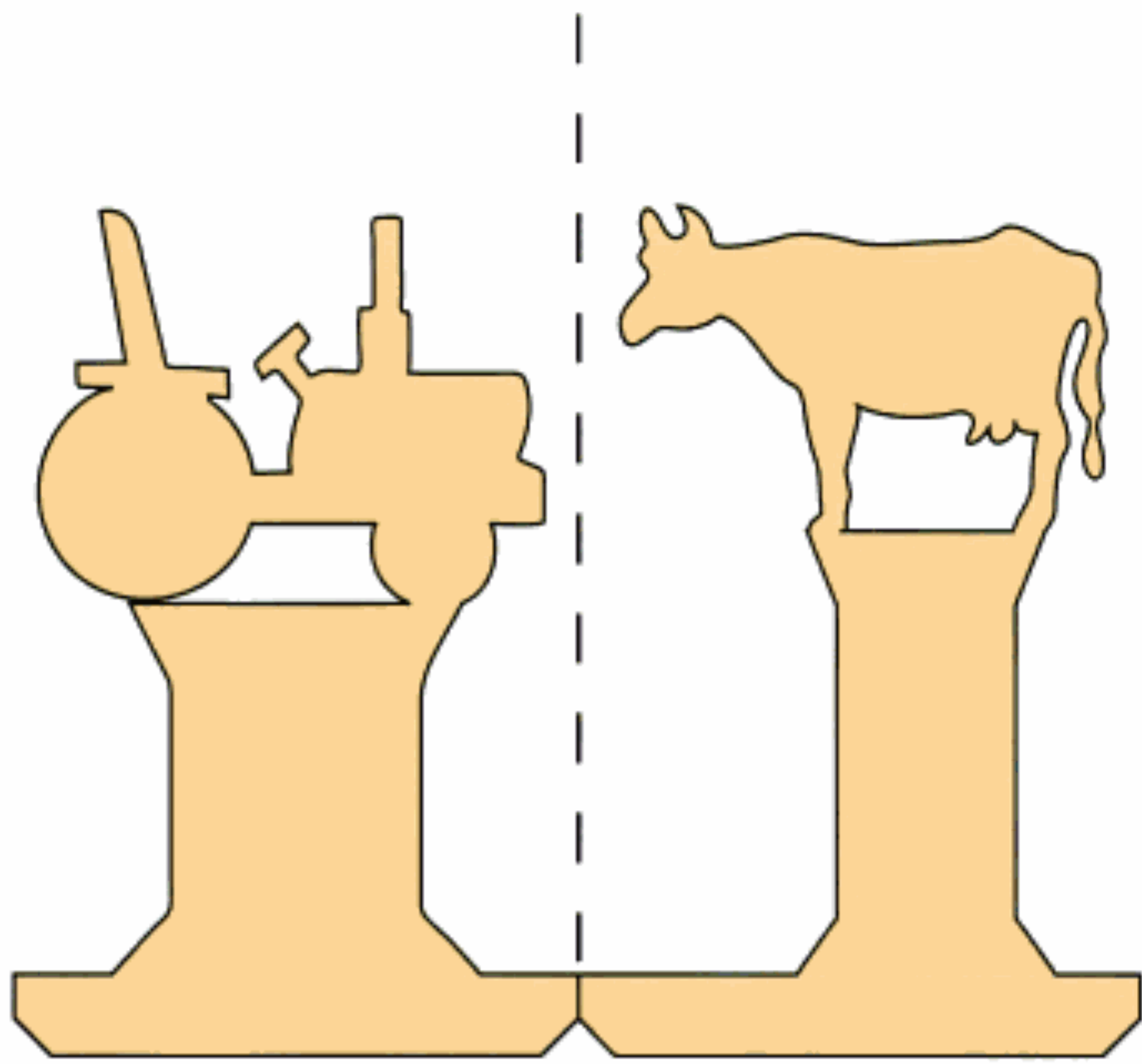
Perched Eagle & Howling Wolf



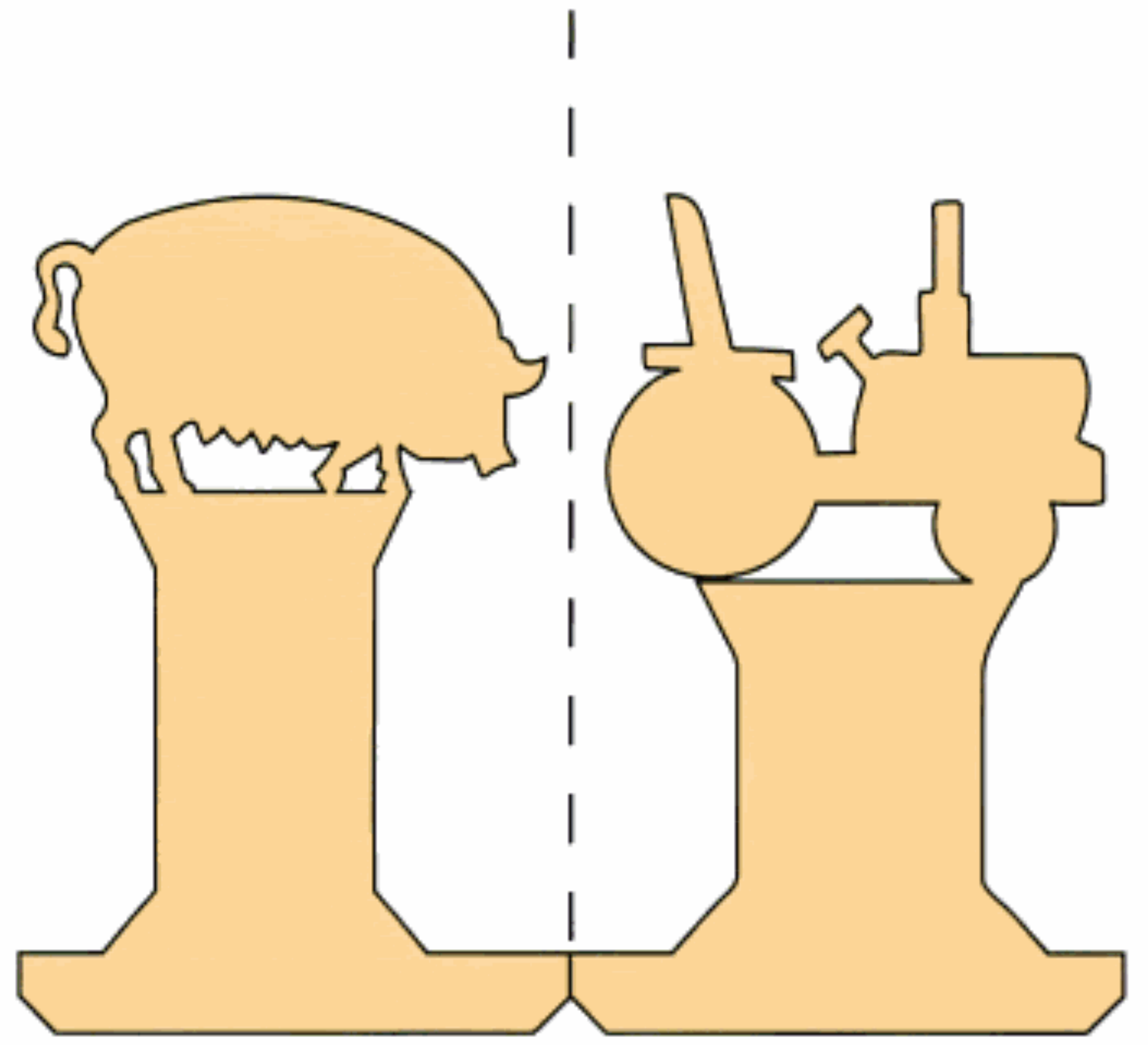
Pine Tree & Perched Eagle



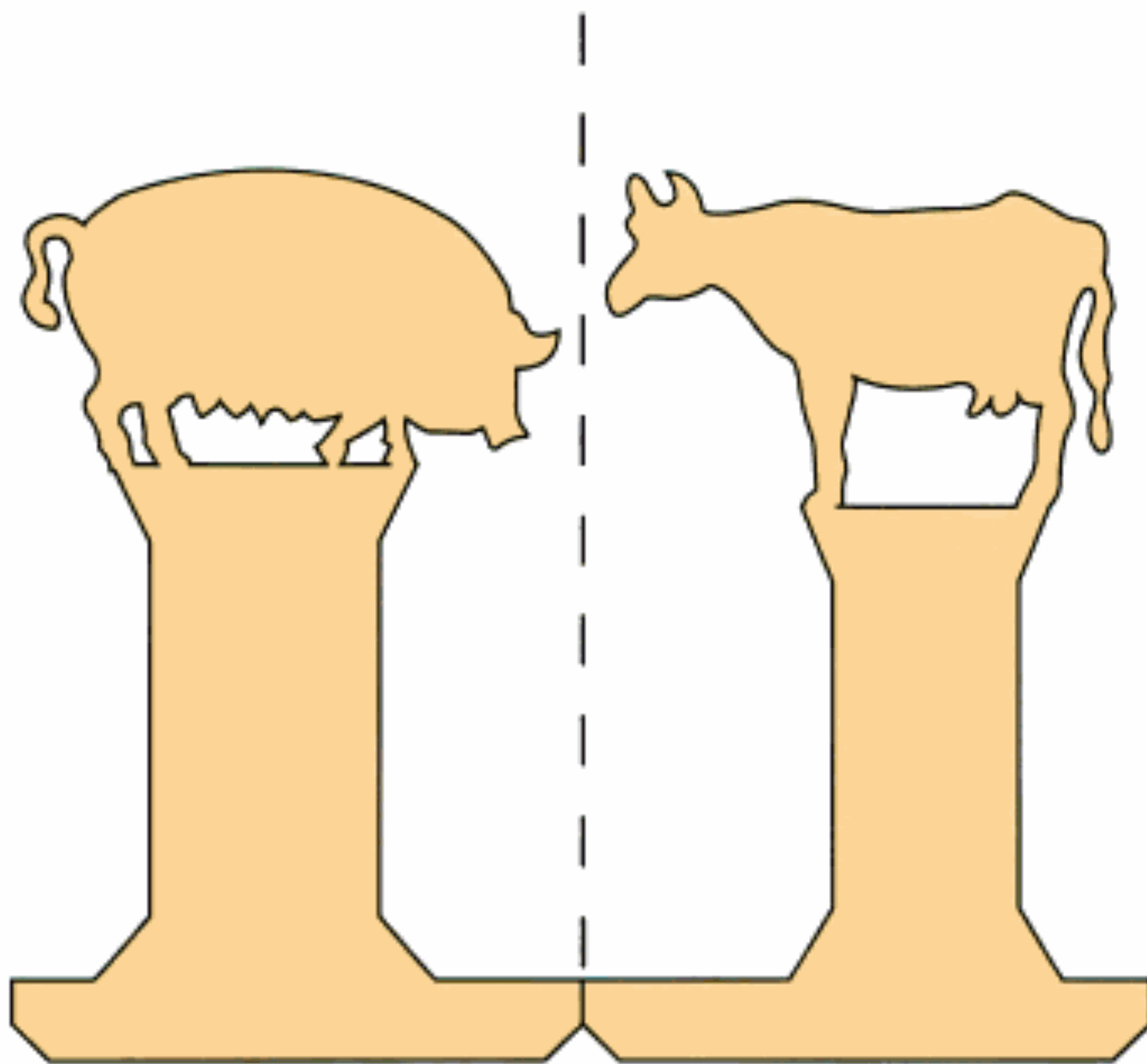
Owl & Perched Eagle



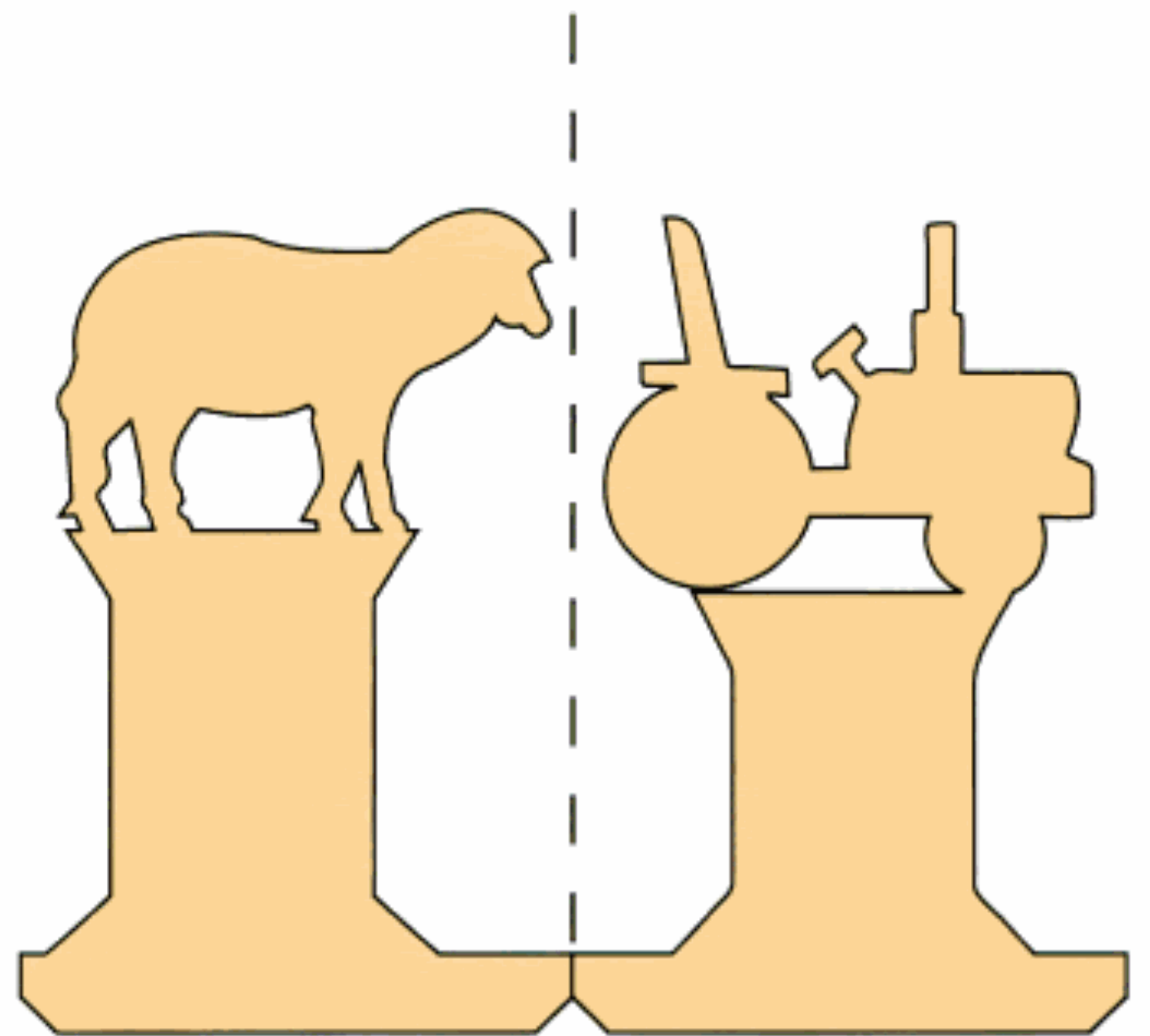
Tractor & Cow



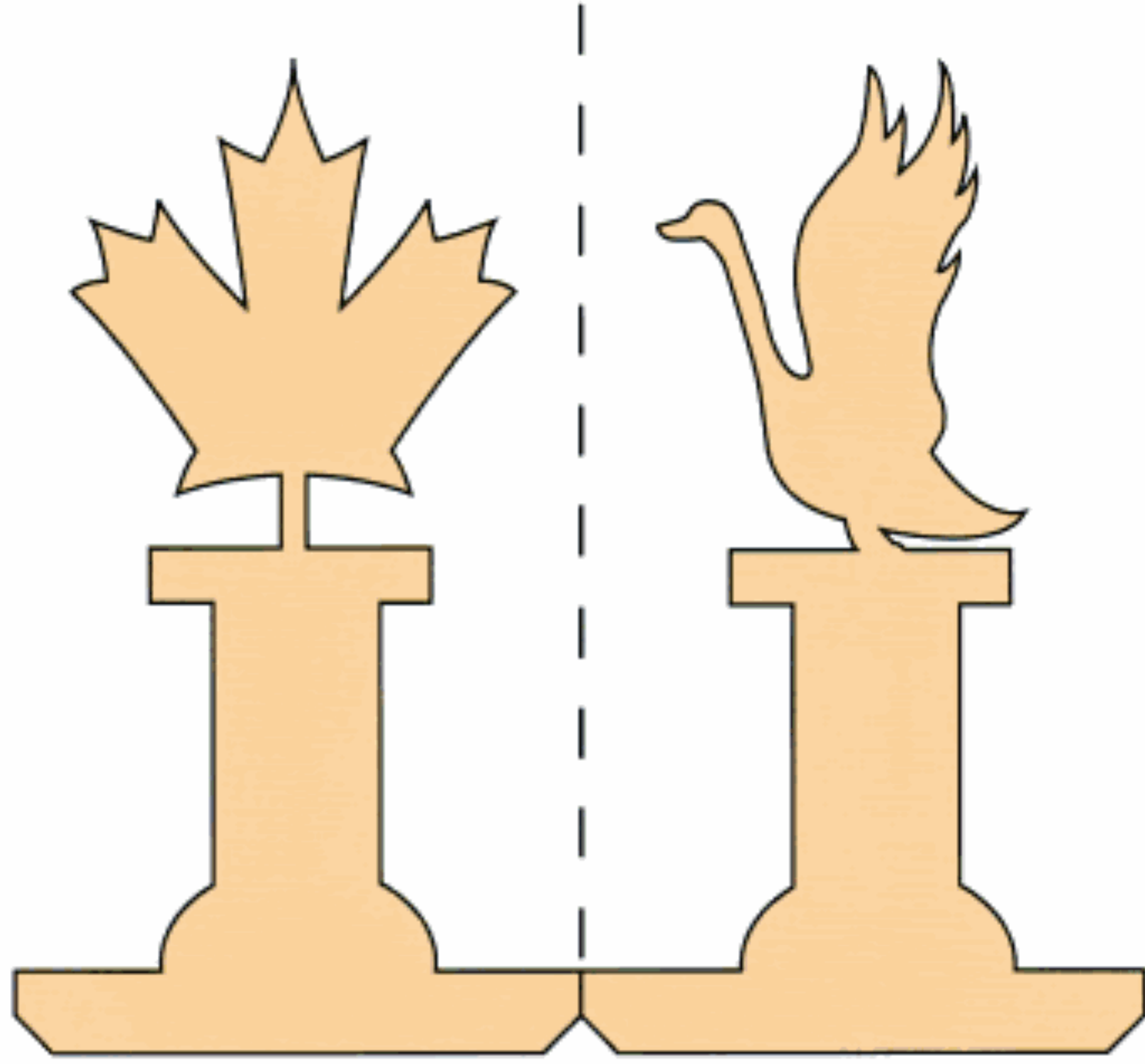
Pig & Tractor



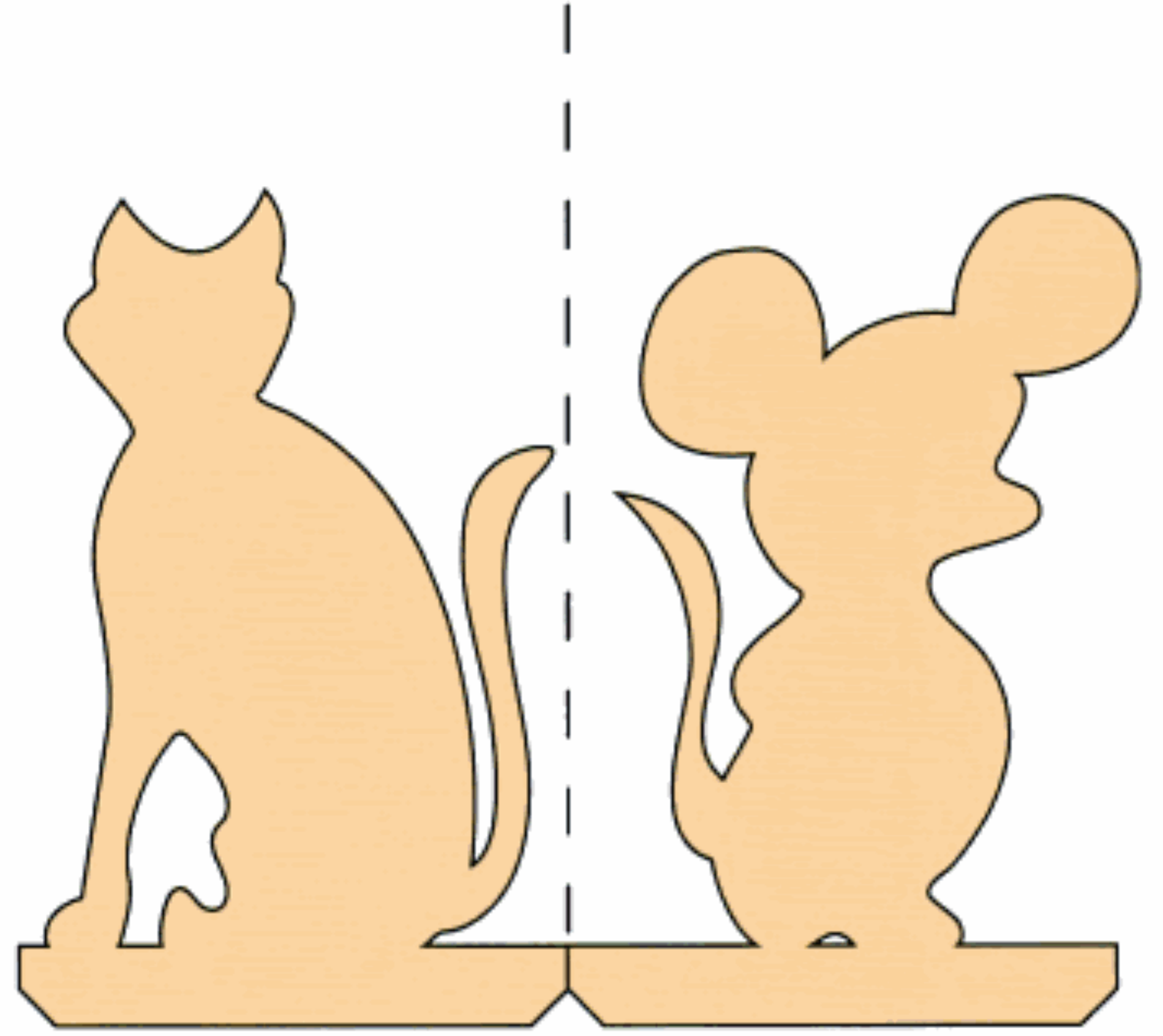
Pig & Cow



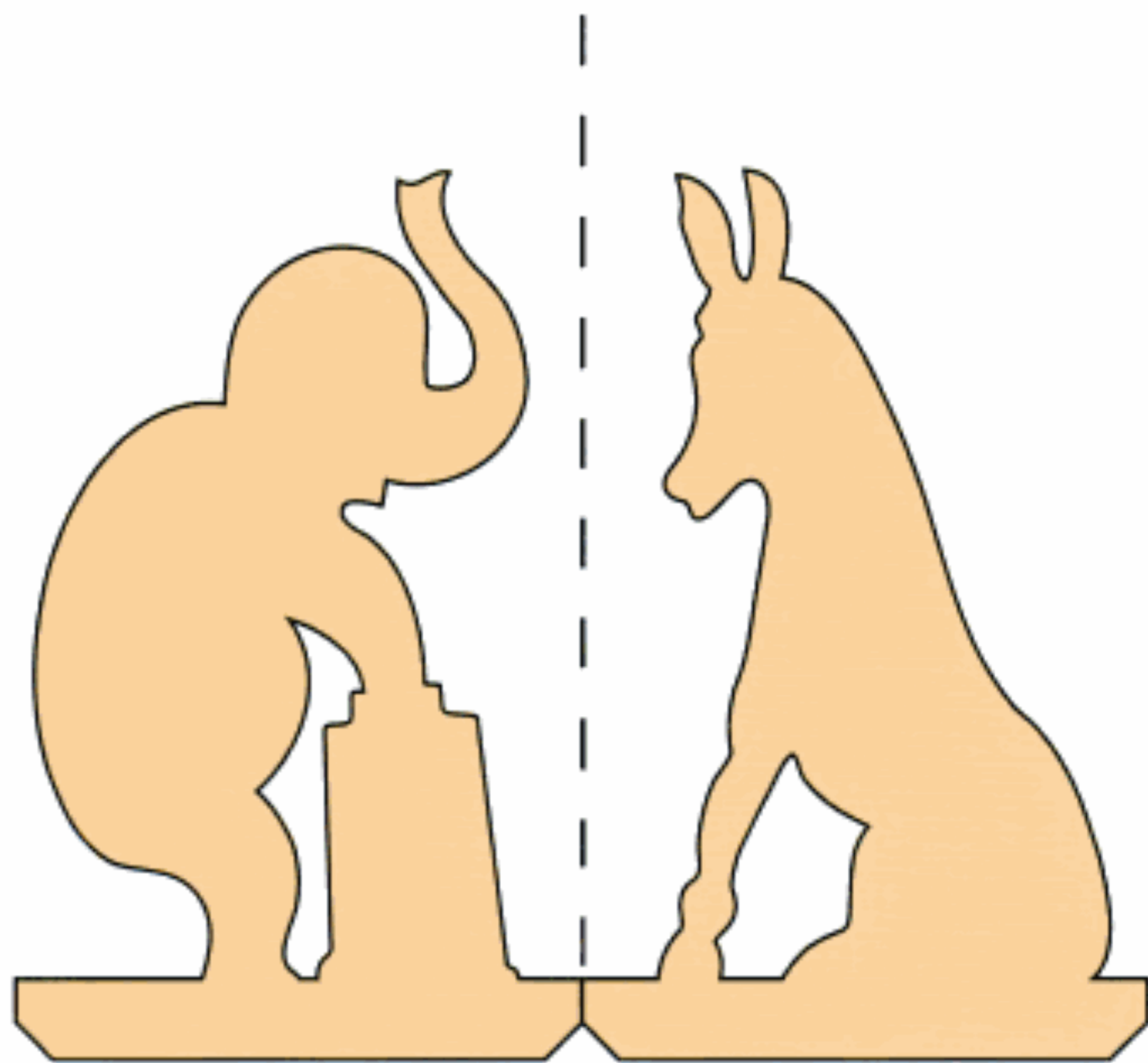
Sheep & Tractor



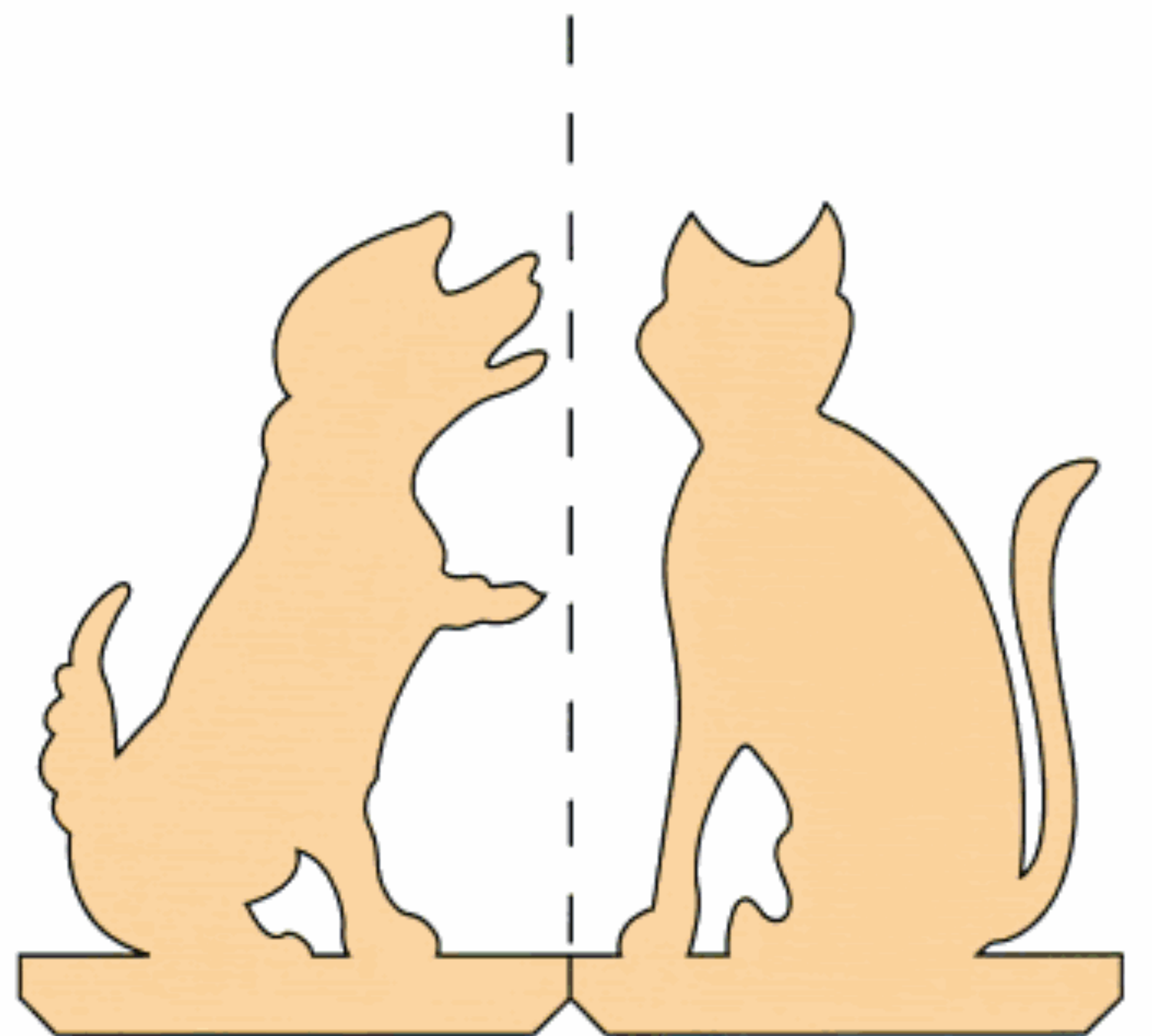
Maple Leaf & Goose



Cat & Mouse

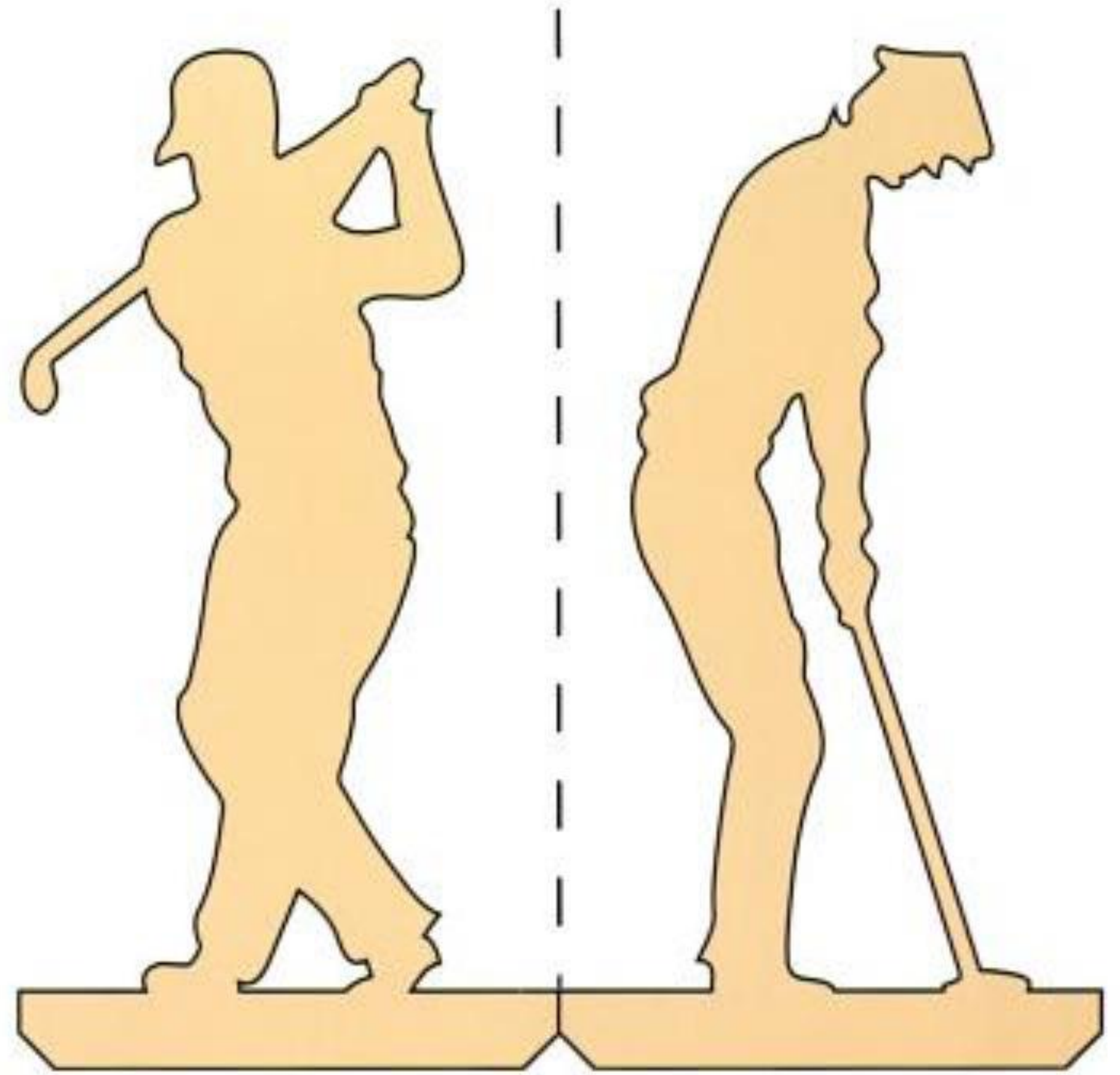


Elephant & Donkey

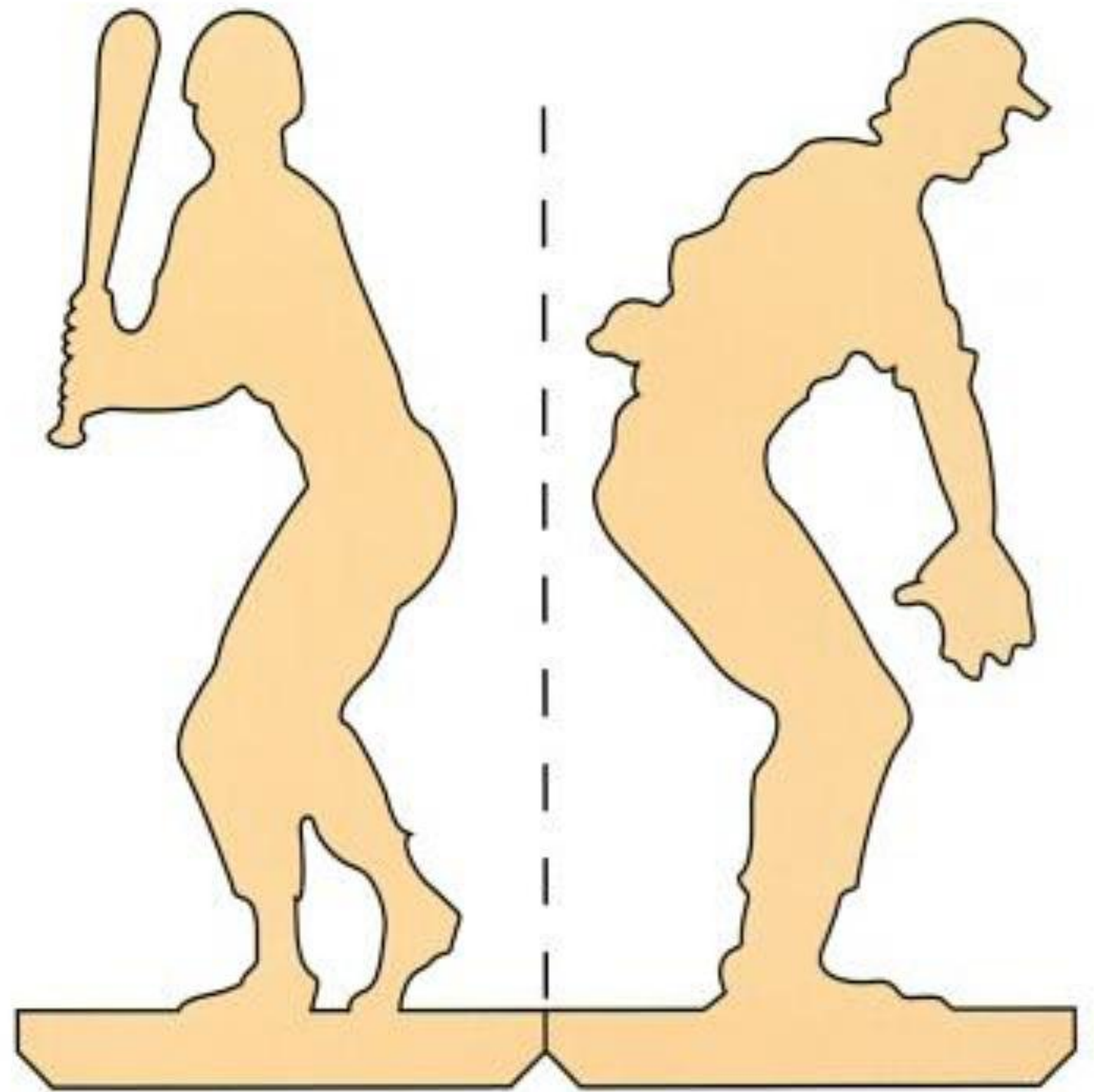


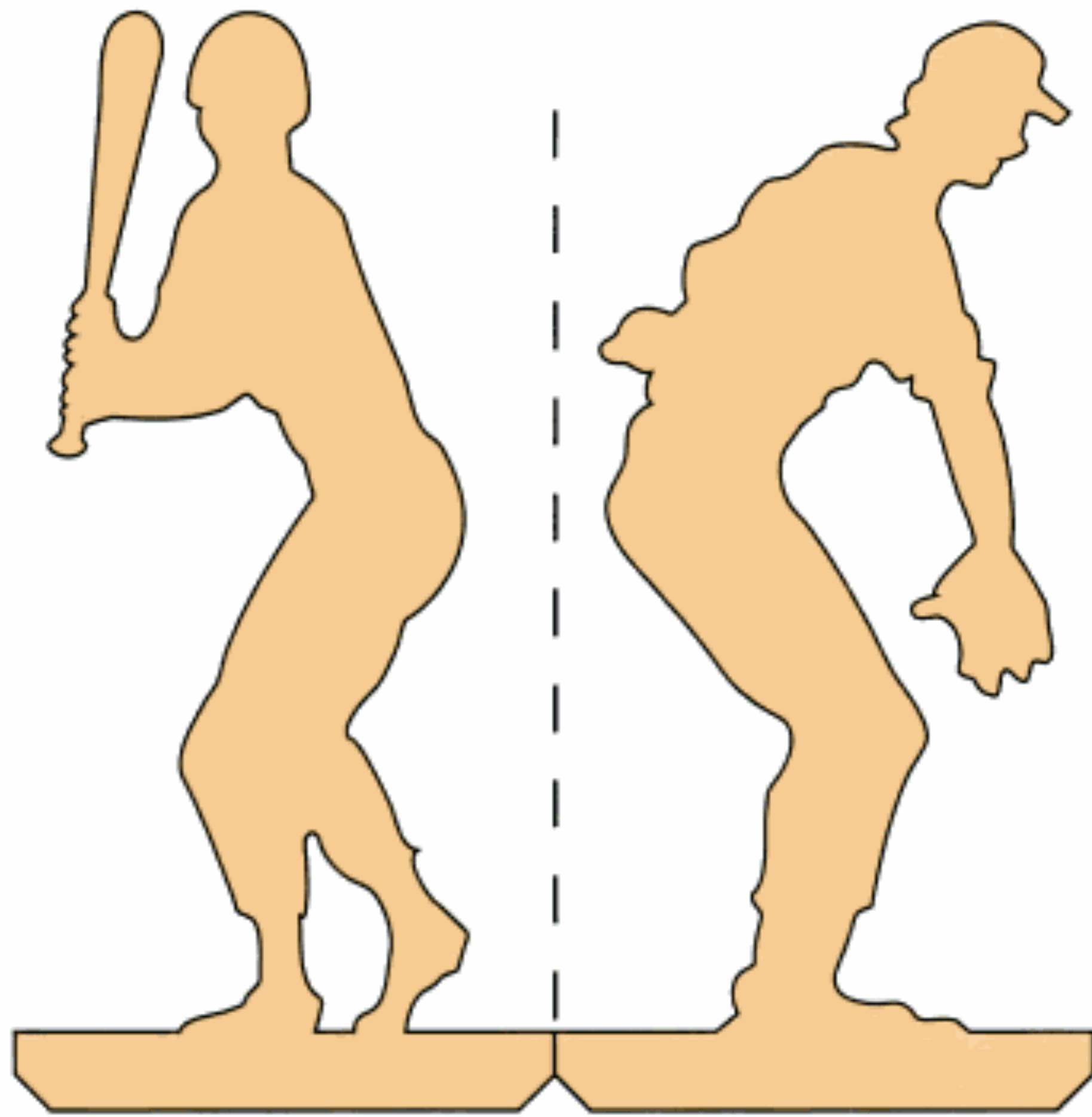
Dog & Cat

Golfer

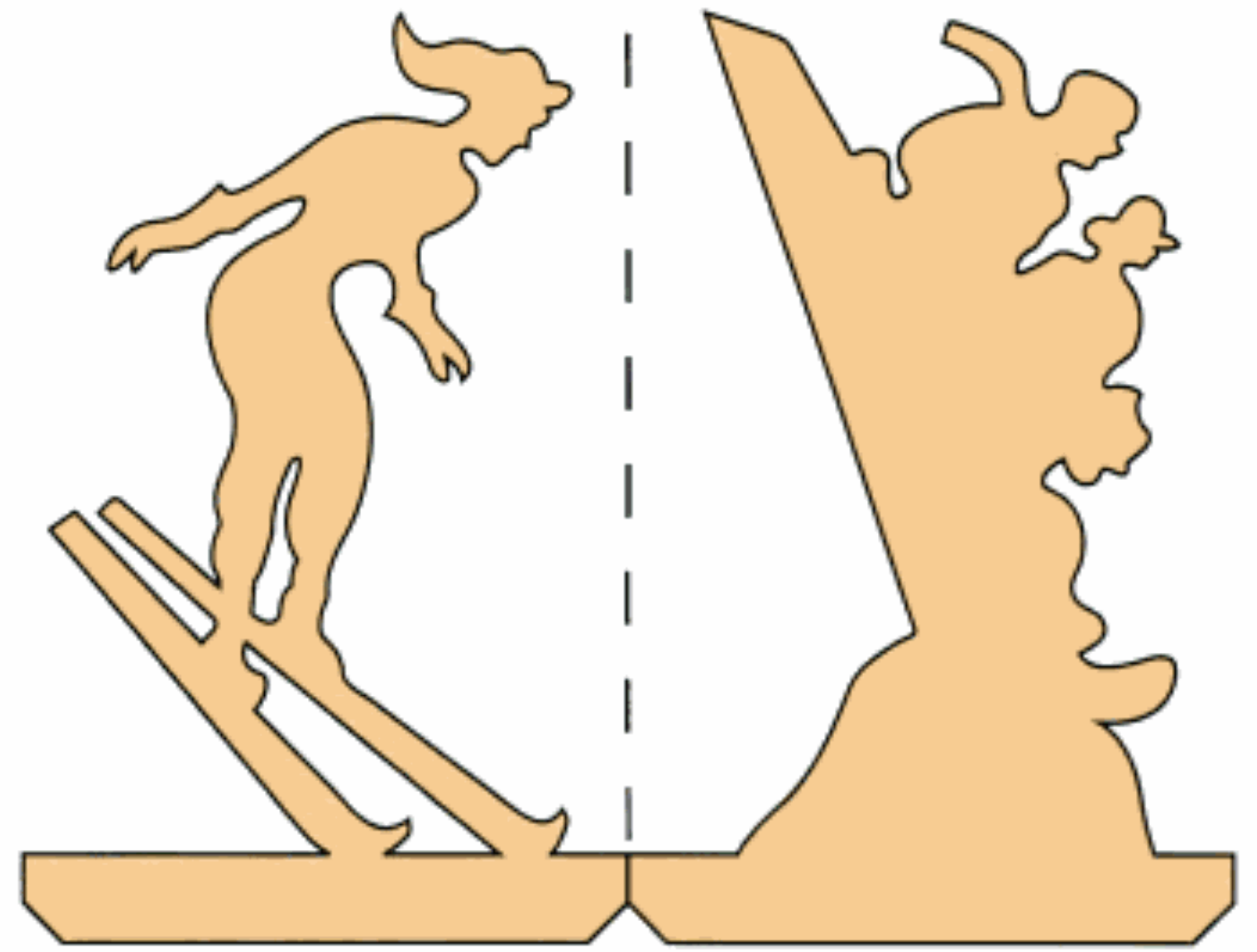


Baseball Player

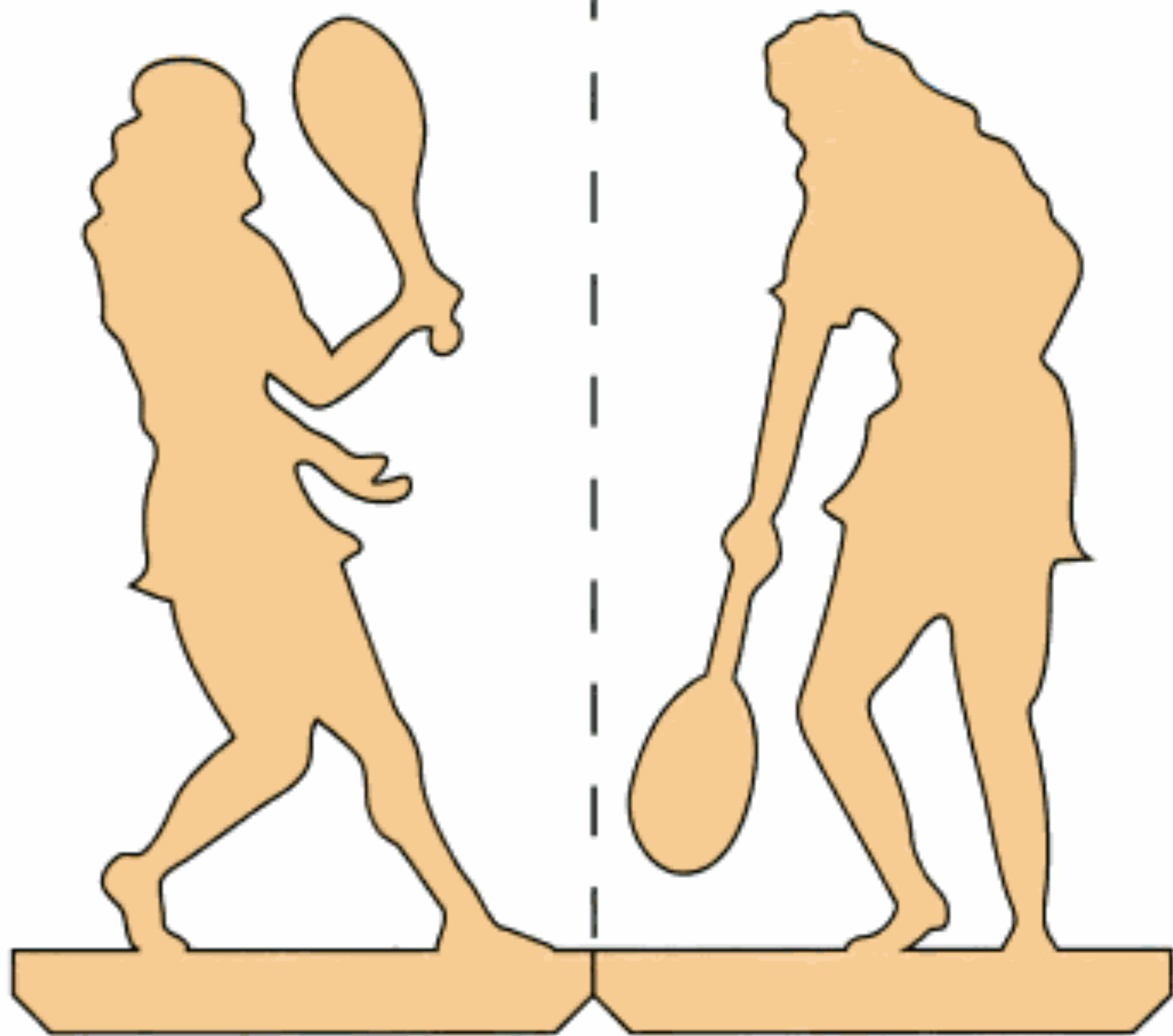




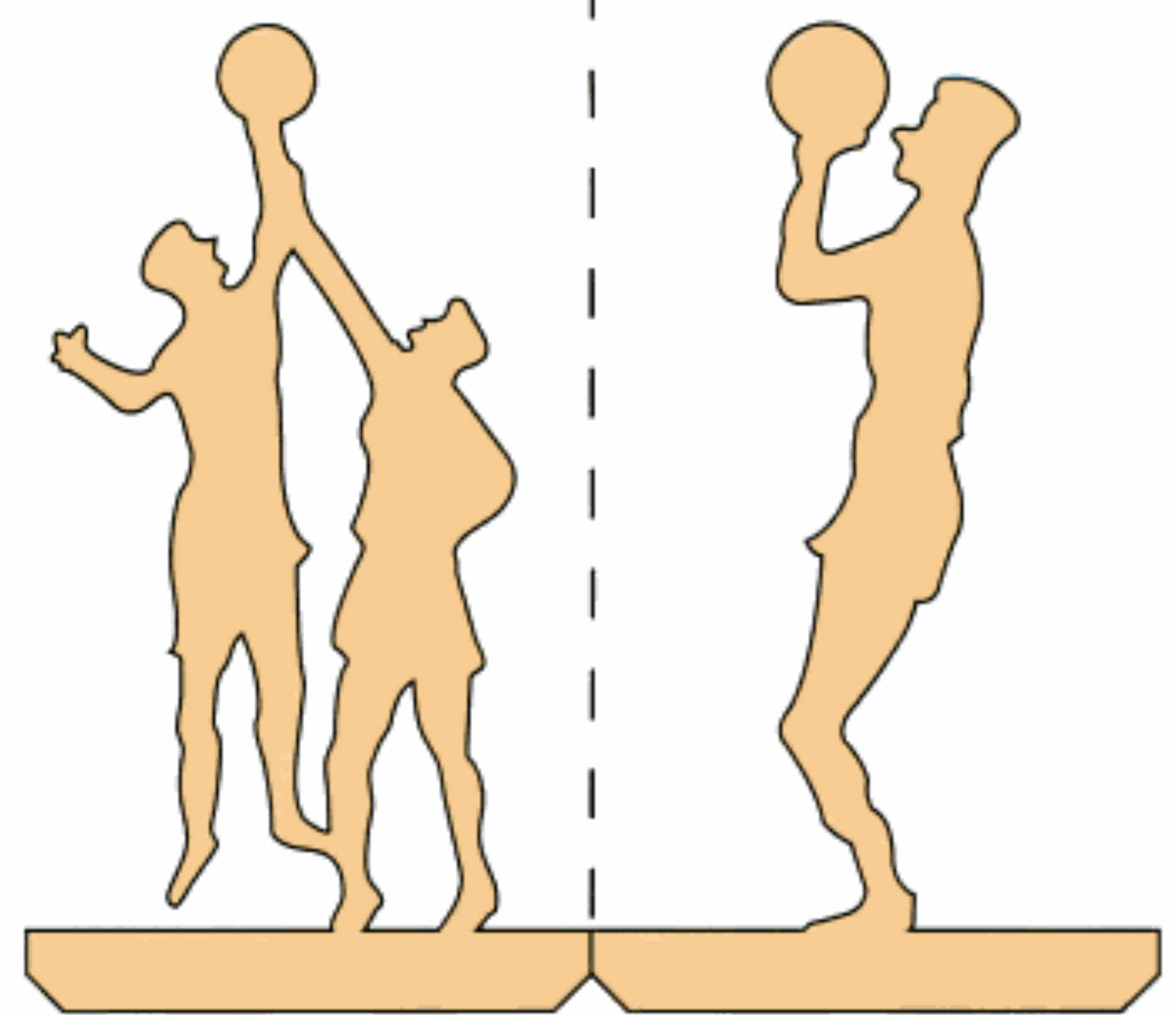
Batter & Pitcher



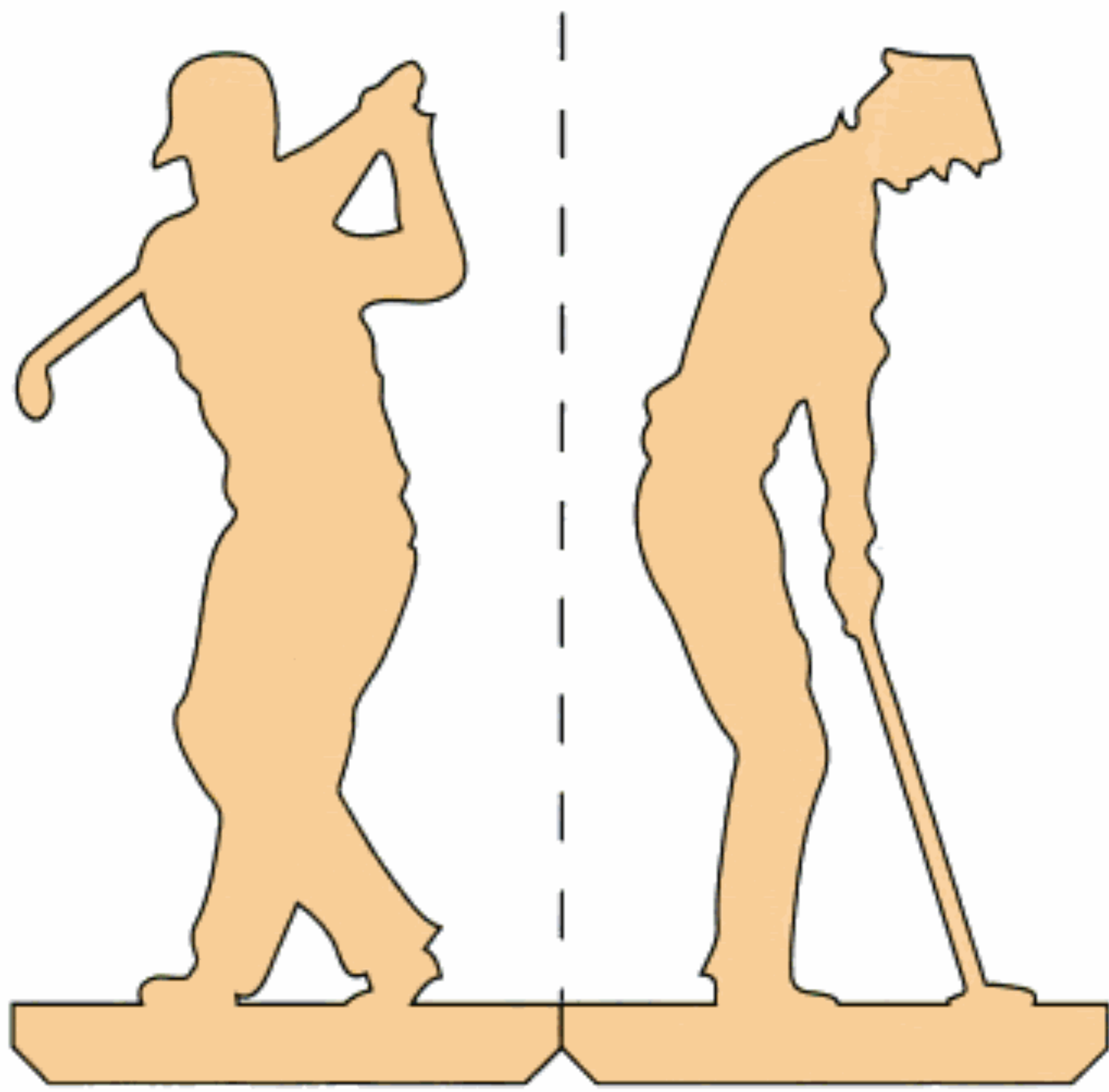
Skier & Bobsled



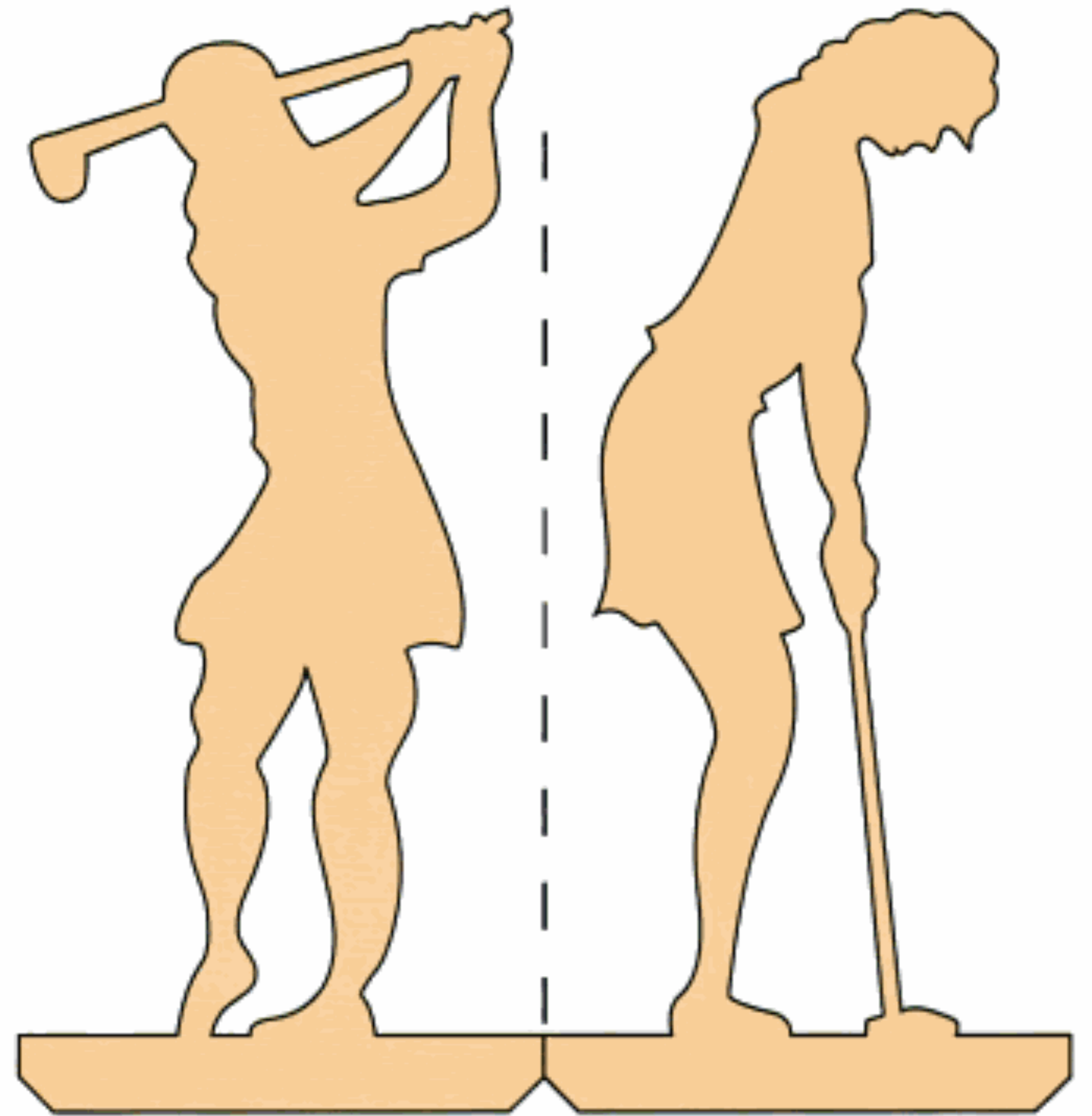
Tennis Serve & Tennis Backhand



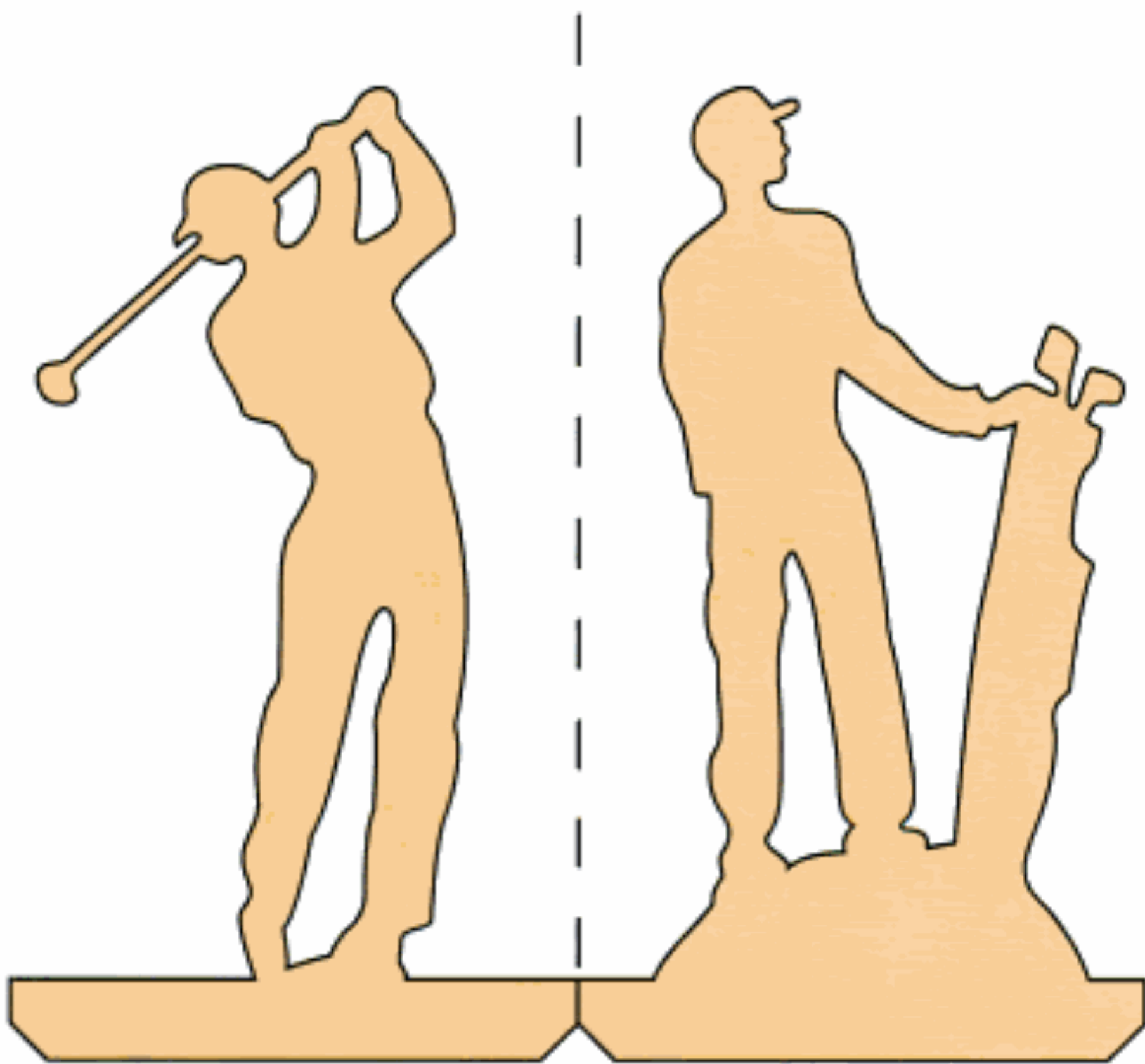
The Foul & Foul Shot



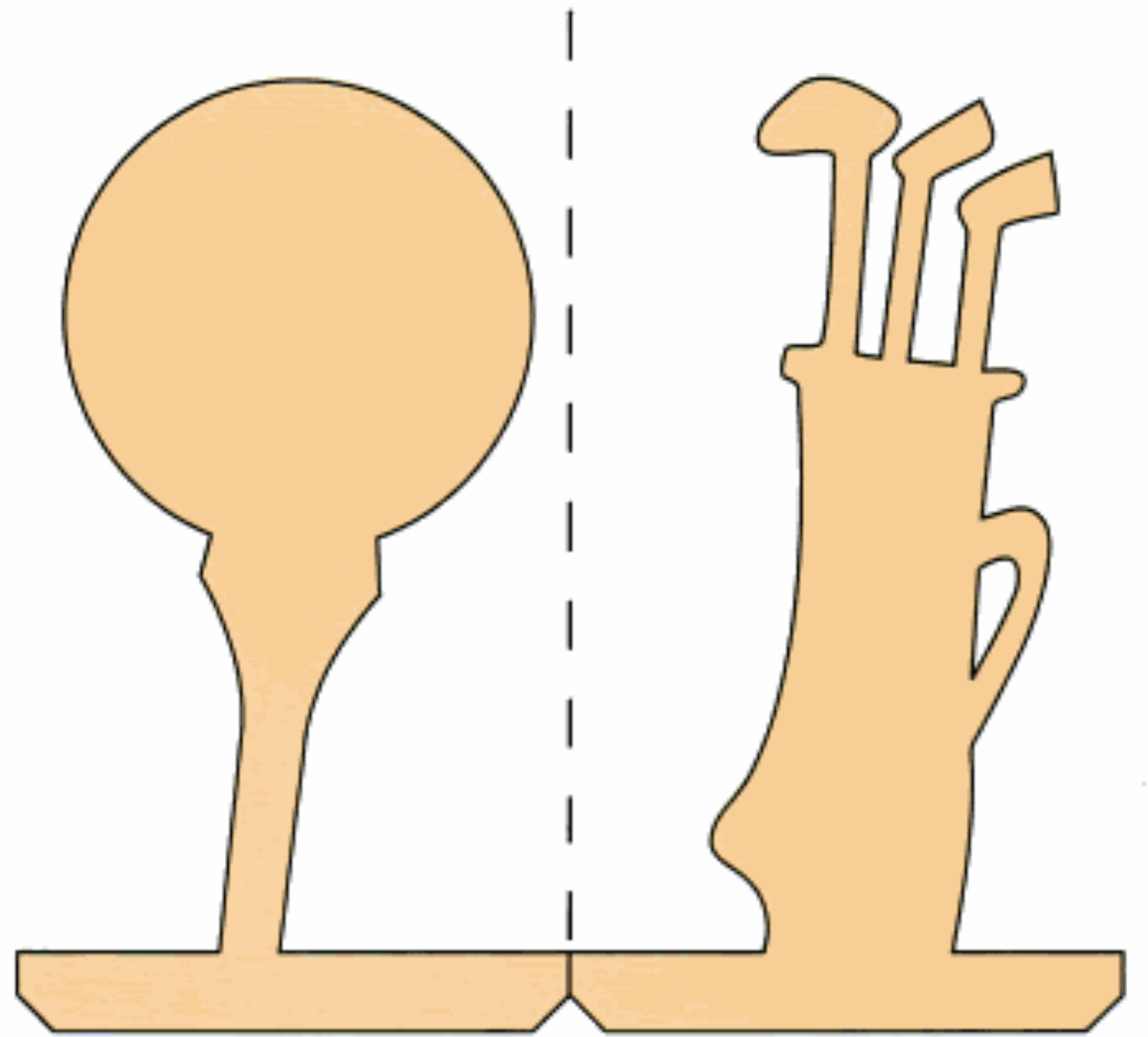
Man Golfer Approach & Putt



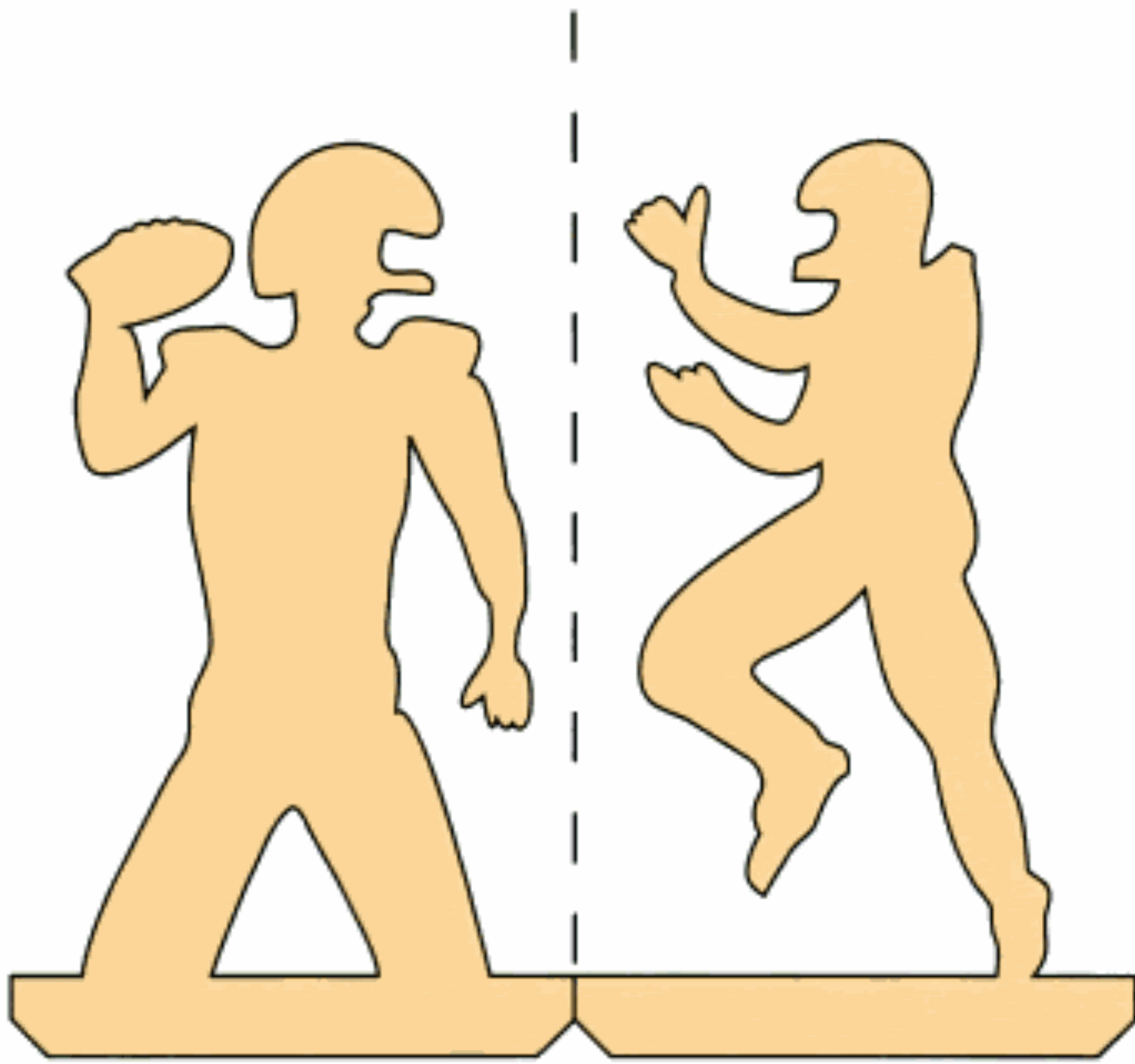
Lady Golfer Approach & Putt



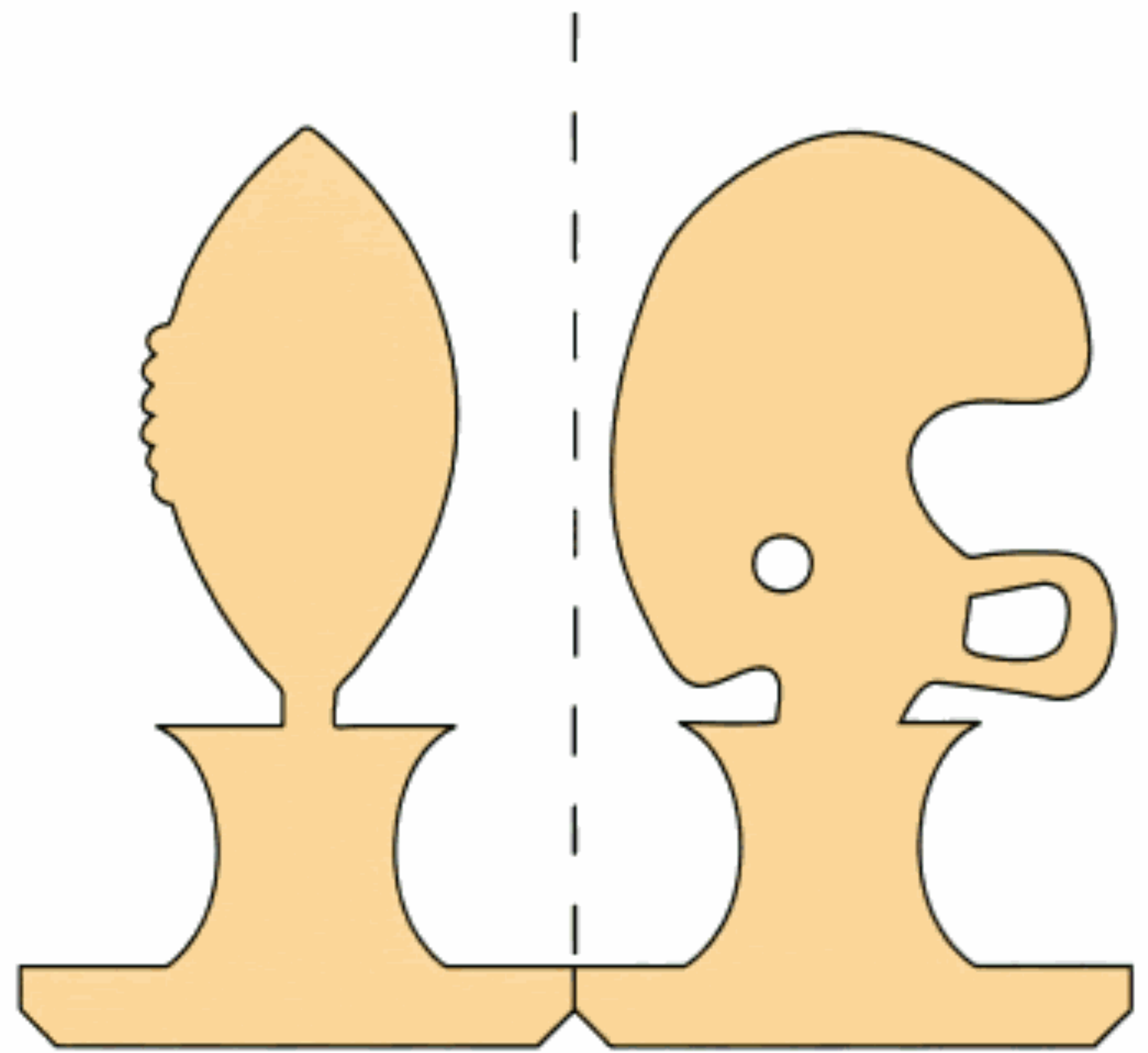
Golfer & Caddy



Golf Ball Tee & Golf Bag

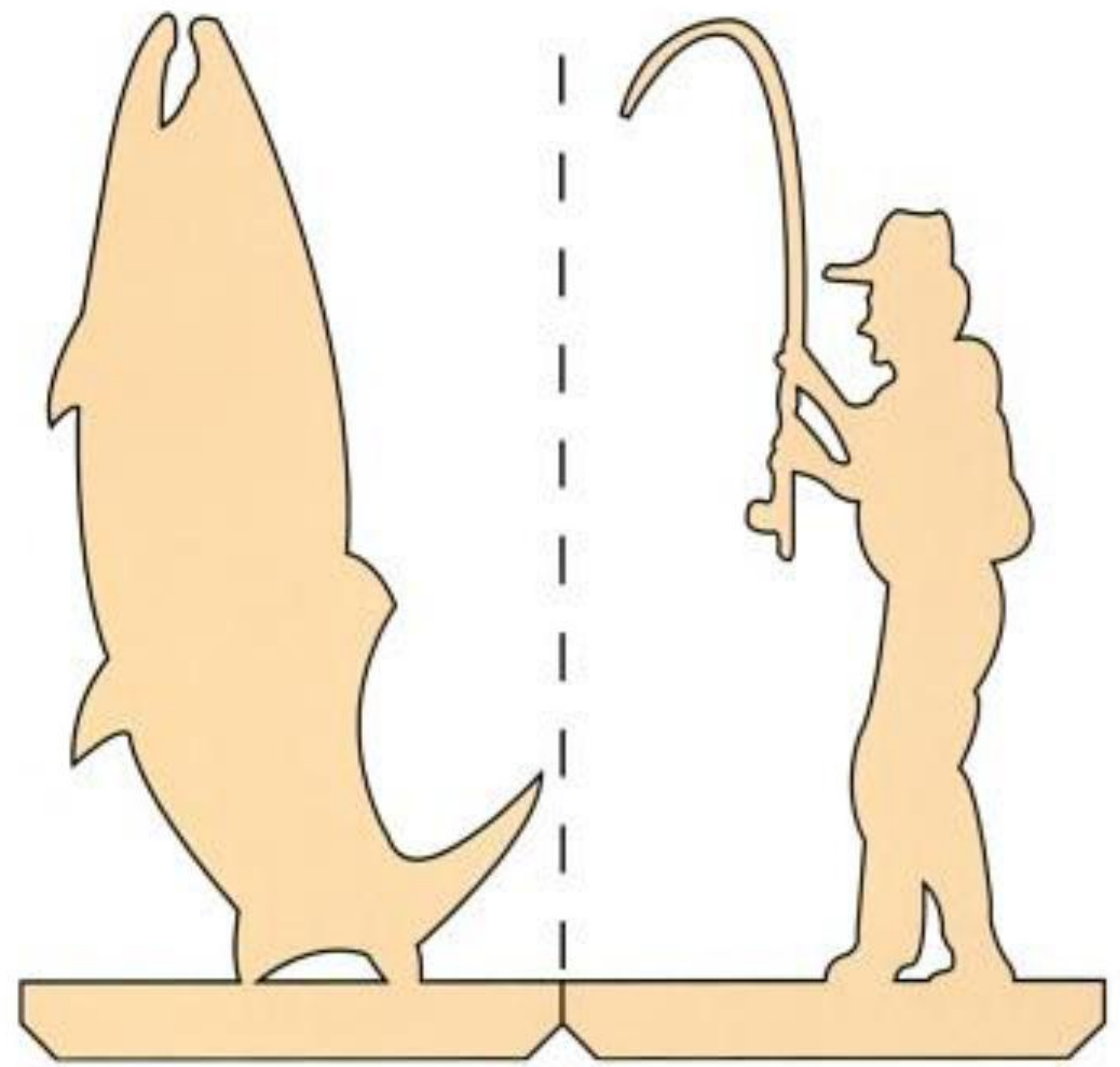


Quarterback & Receiver

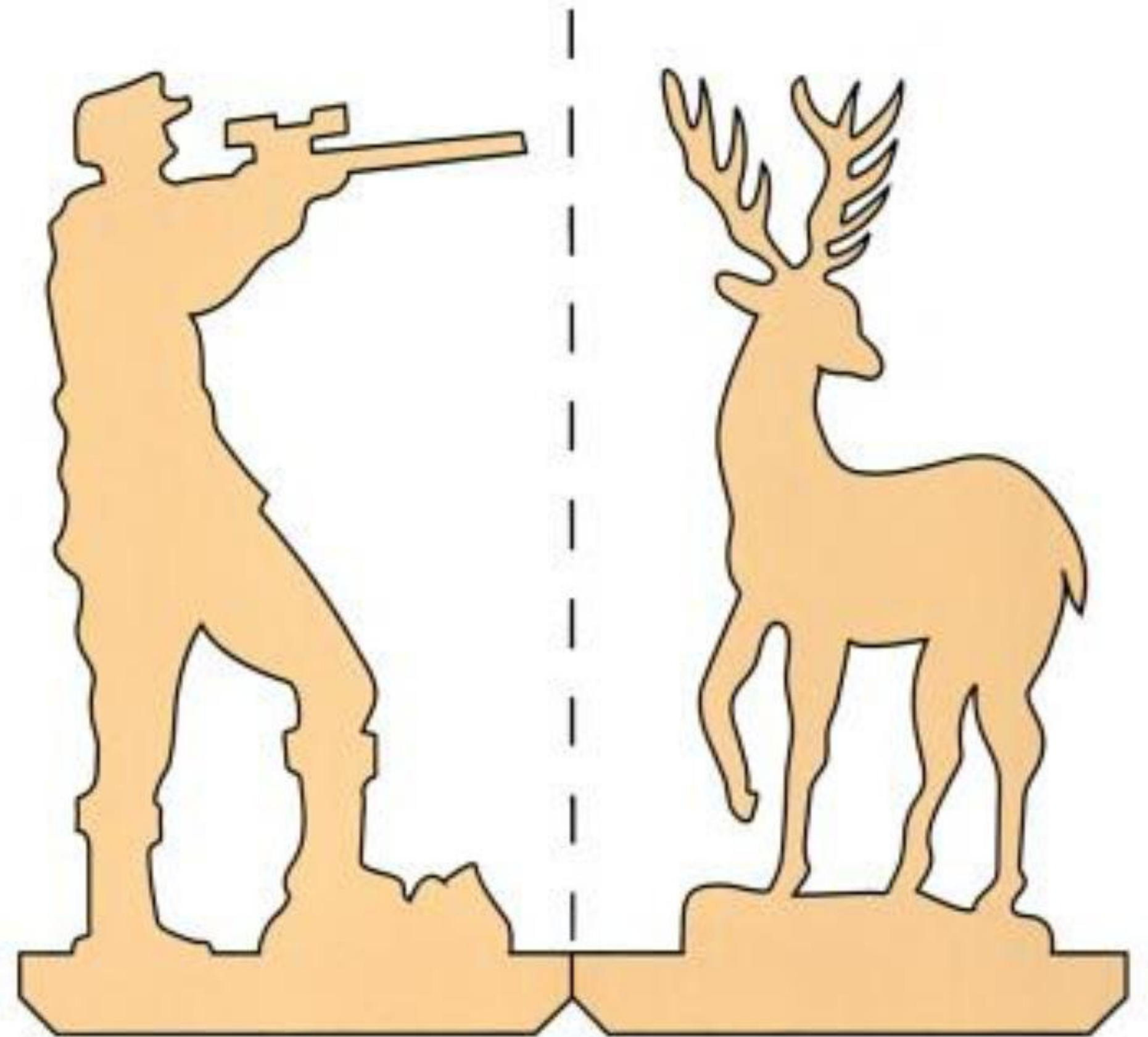


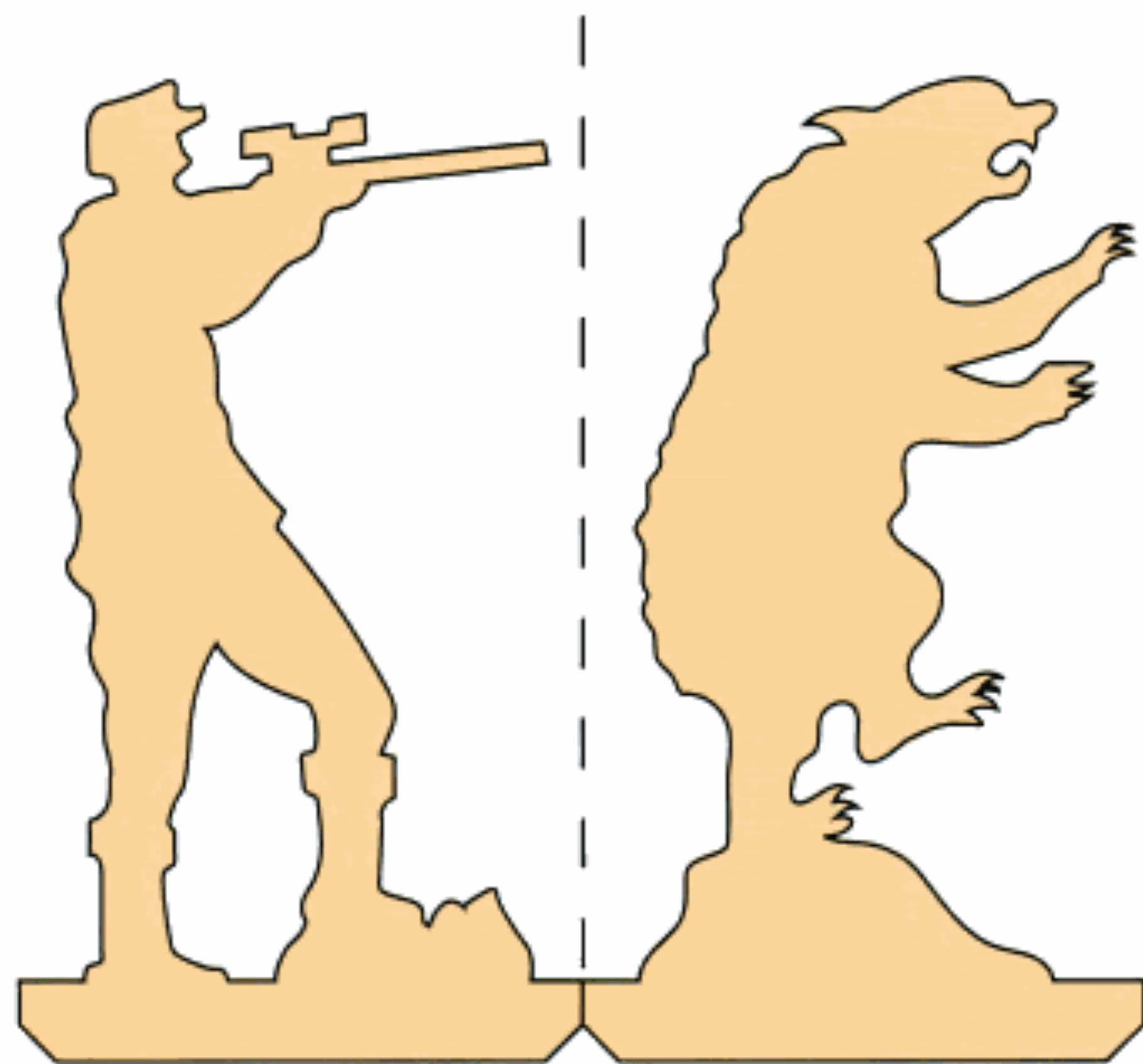
Football & Helmet

Fisherman

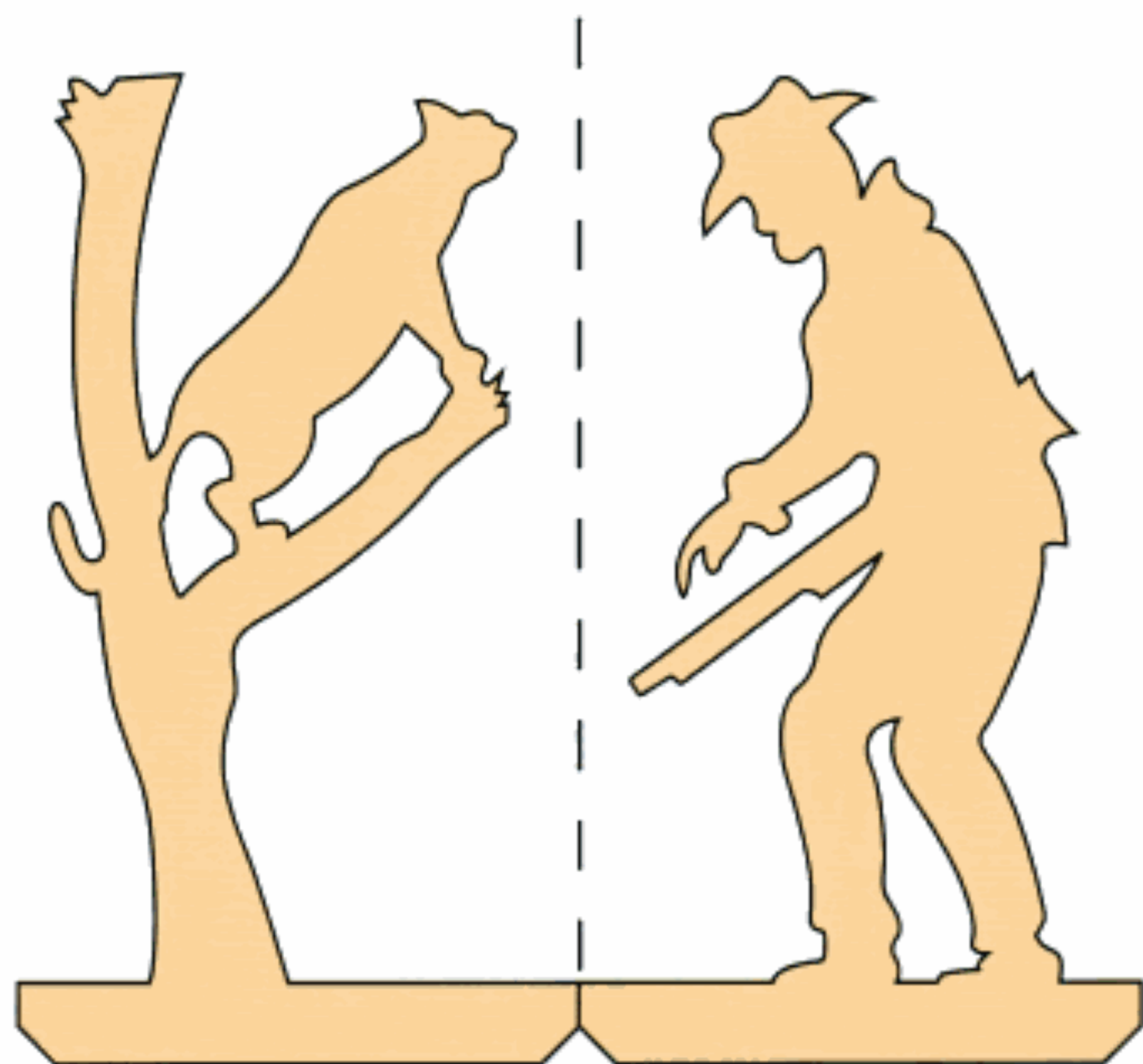


Hunter & Standing Deer

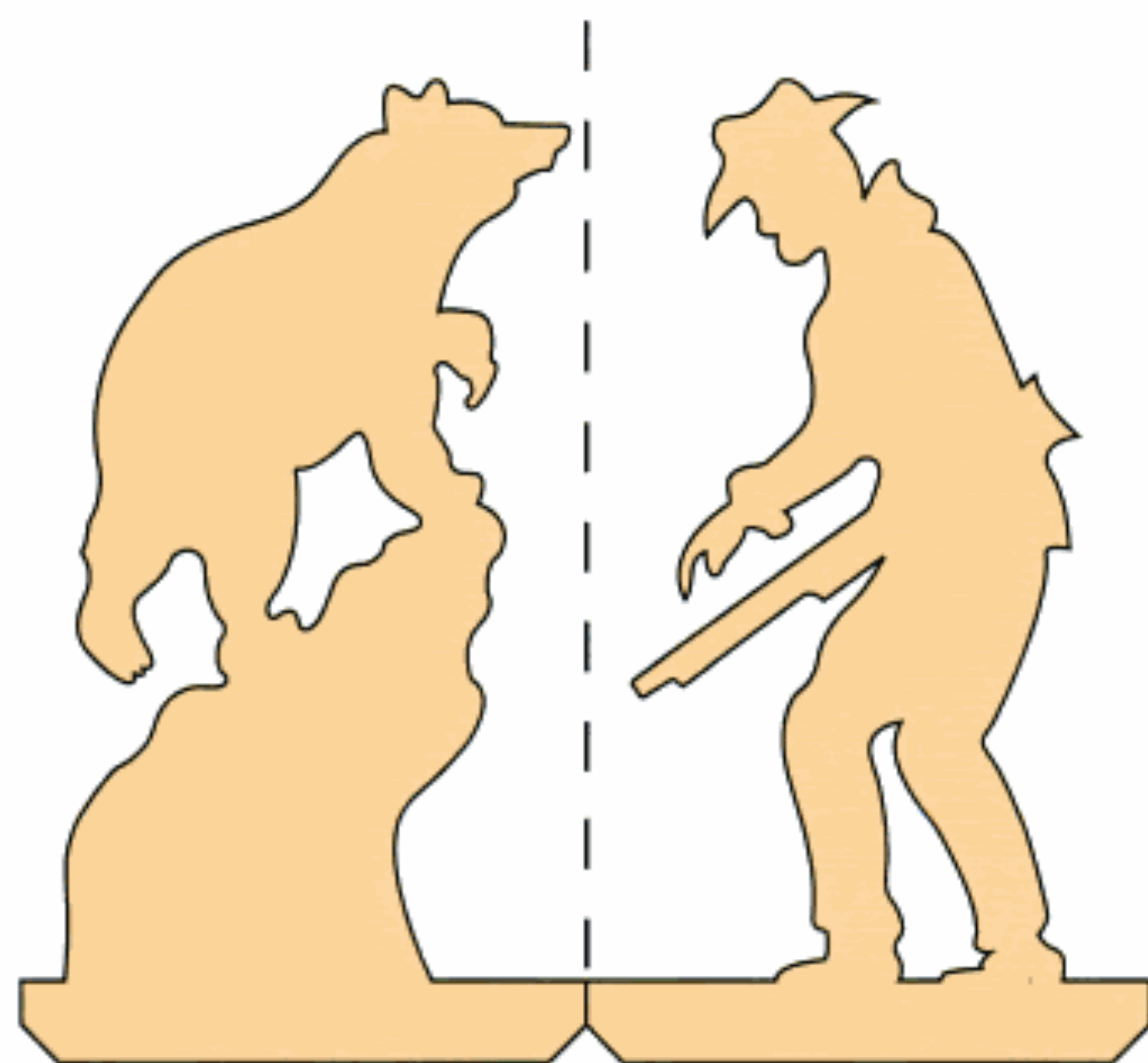




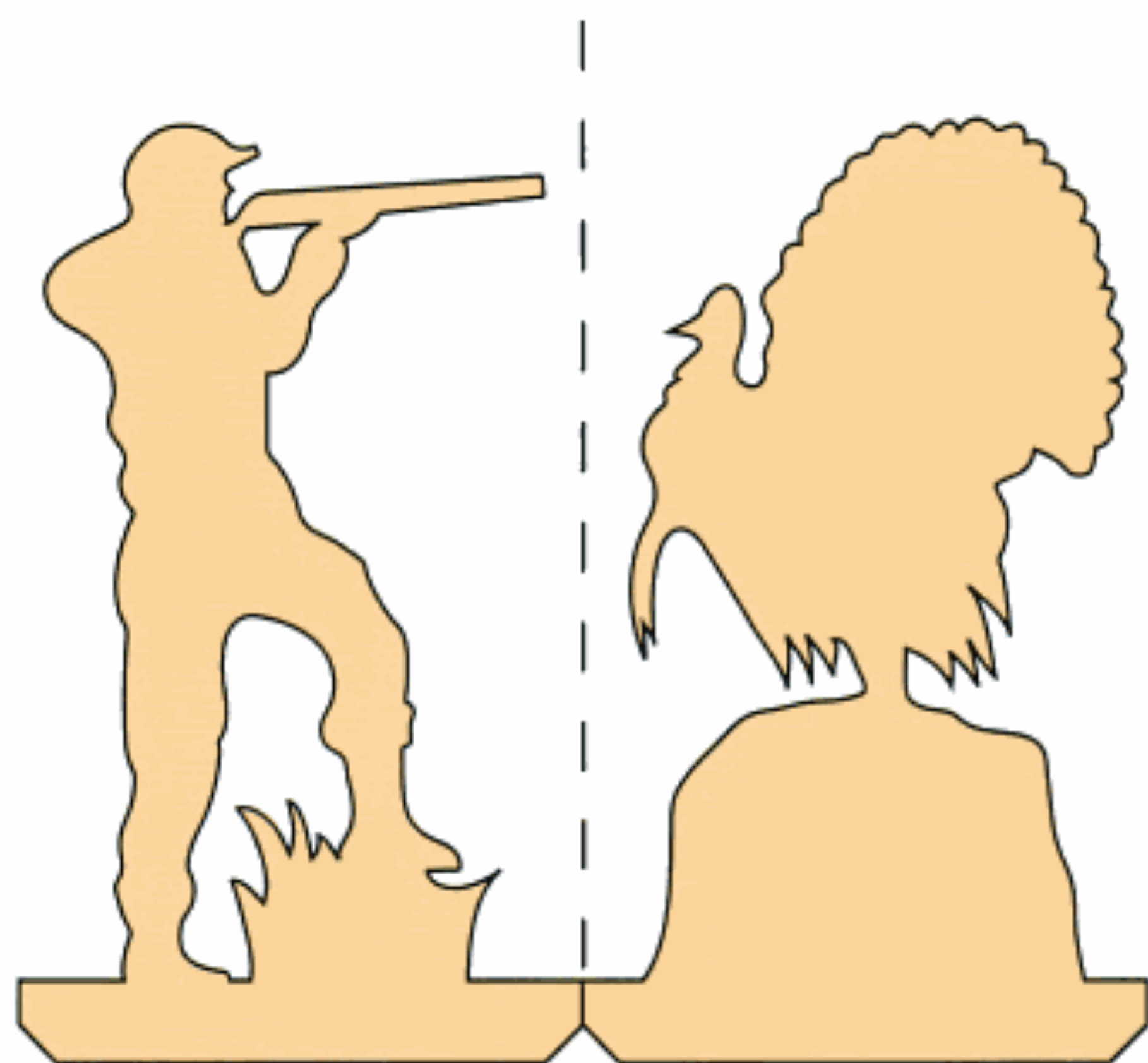
Hunter & Grizzly Bear



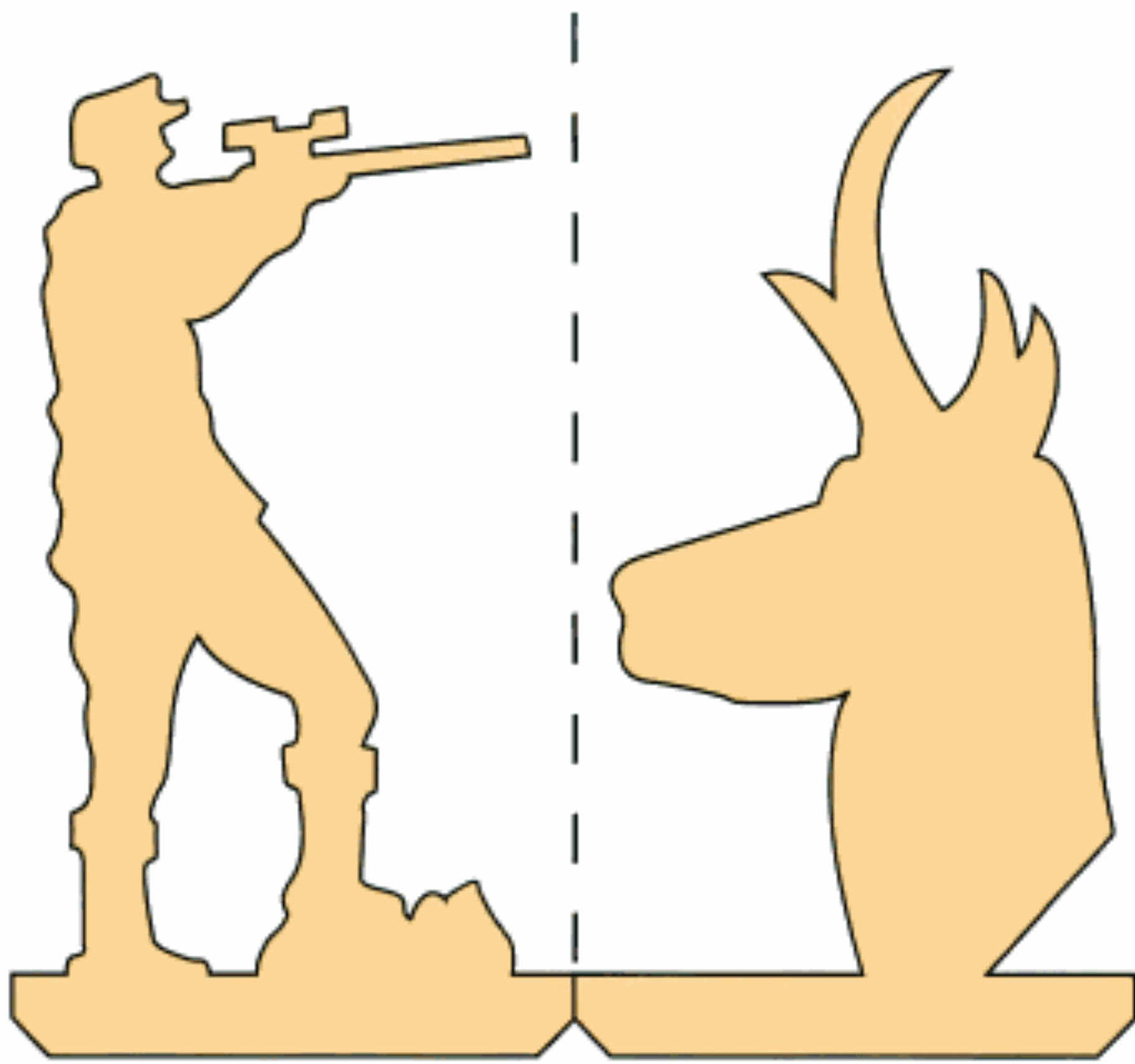
Cougar & Tracker



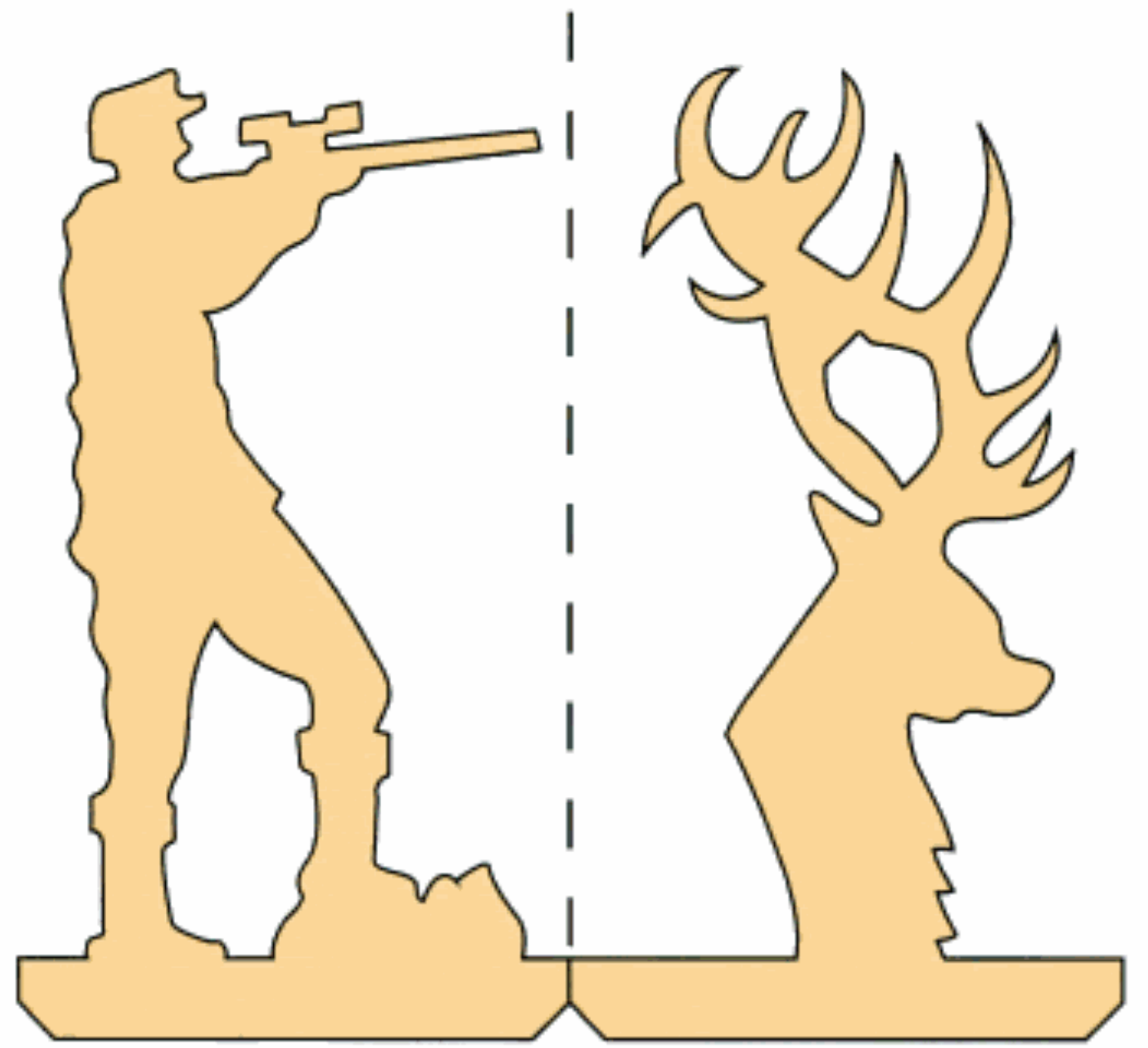
Bear & Tracker



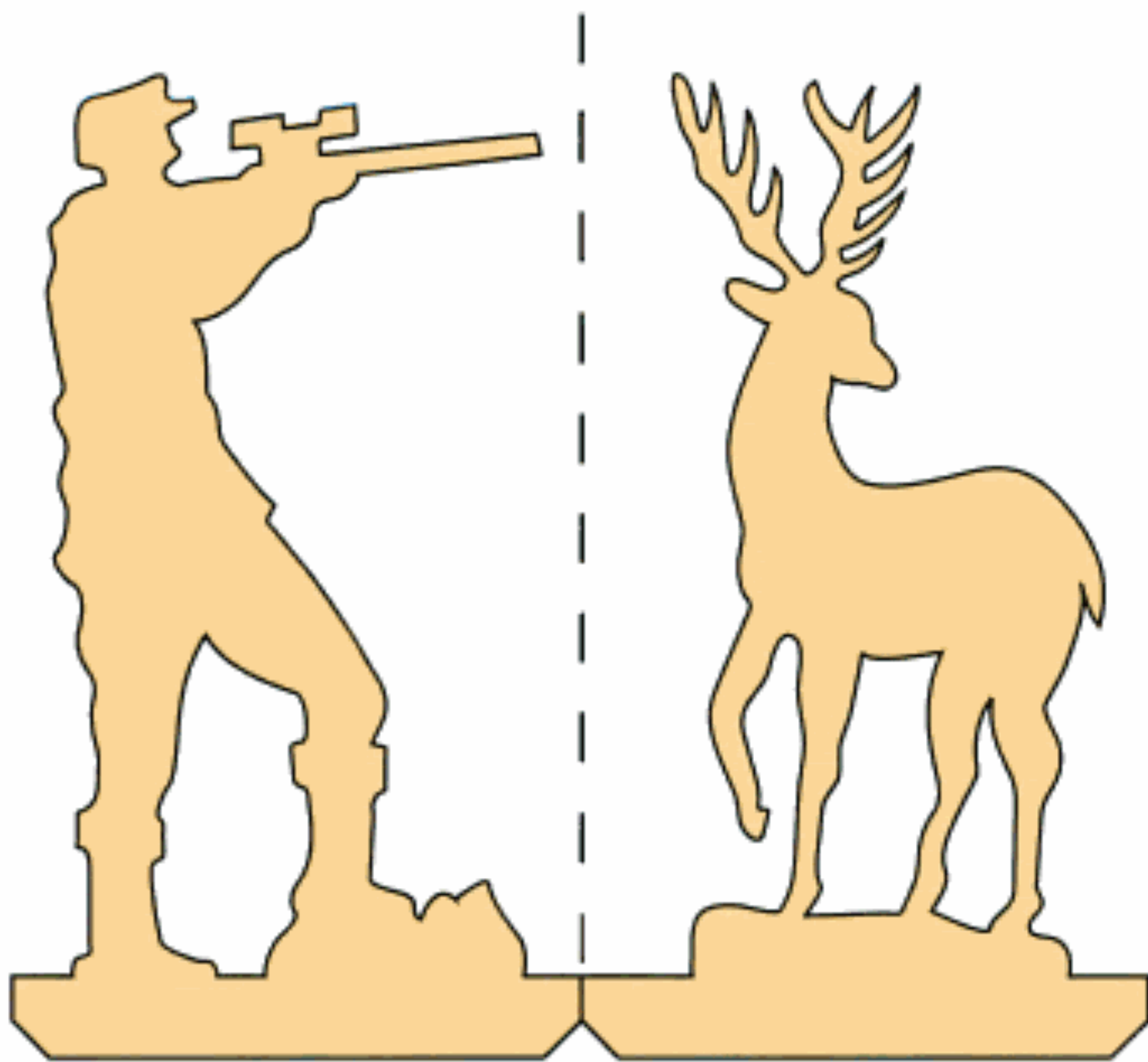
Hunter & Wild Turkey



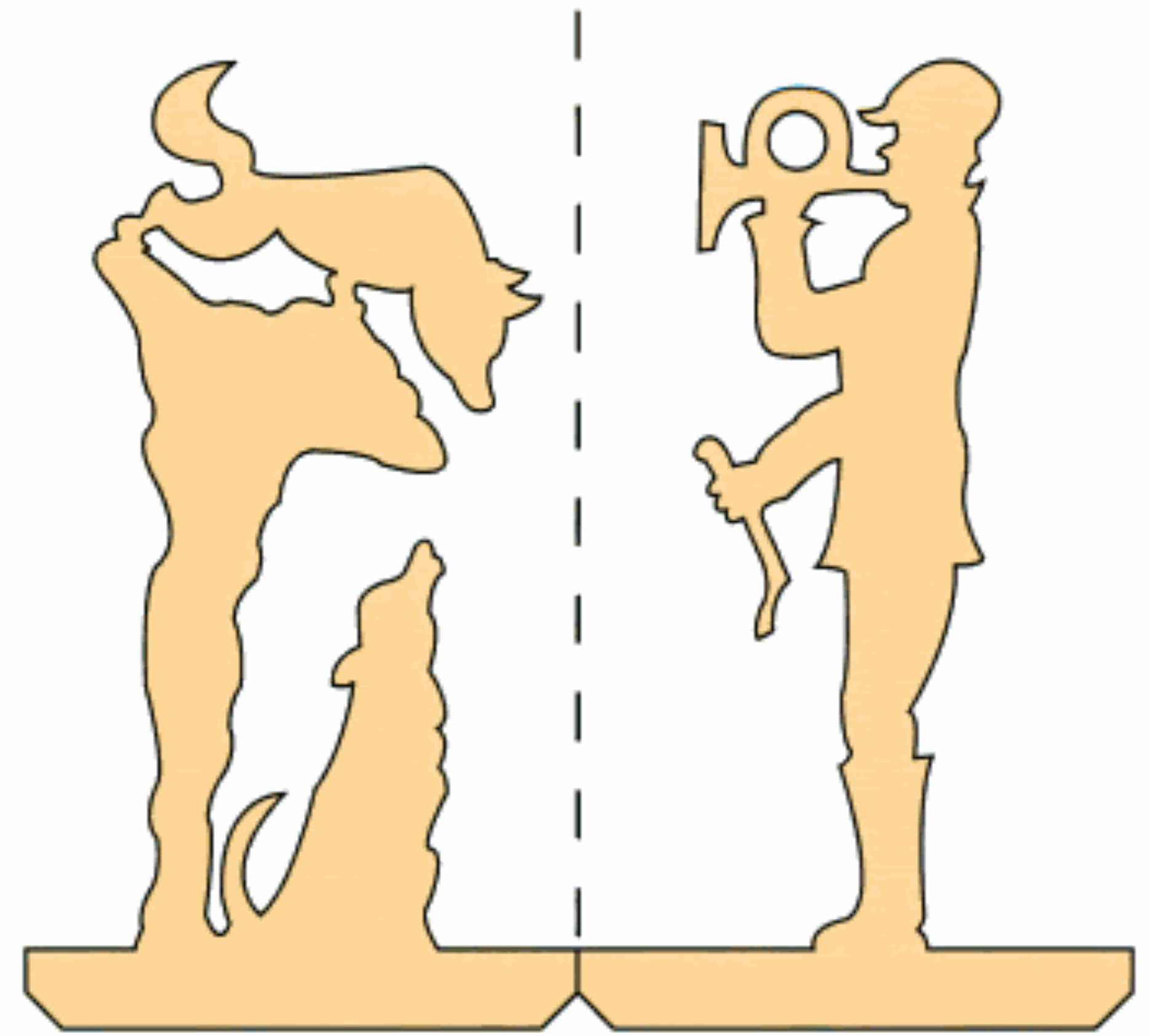
Hunter & Antelope Head



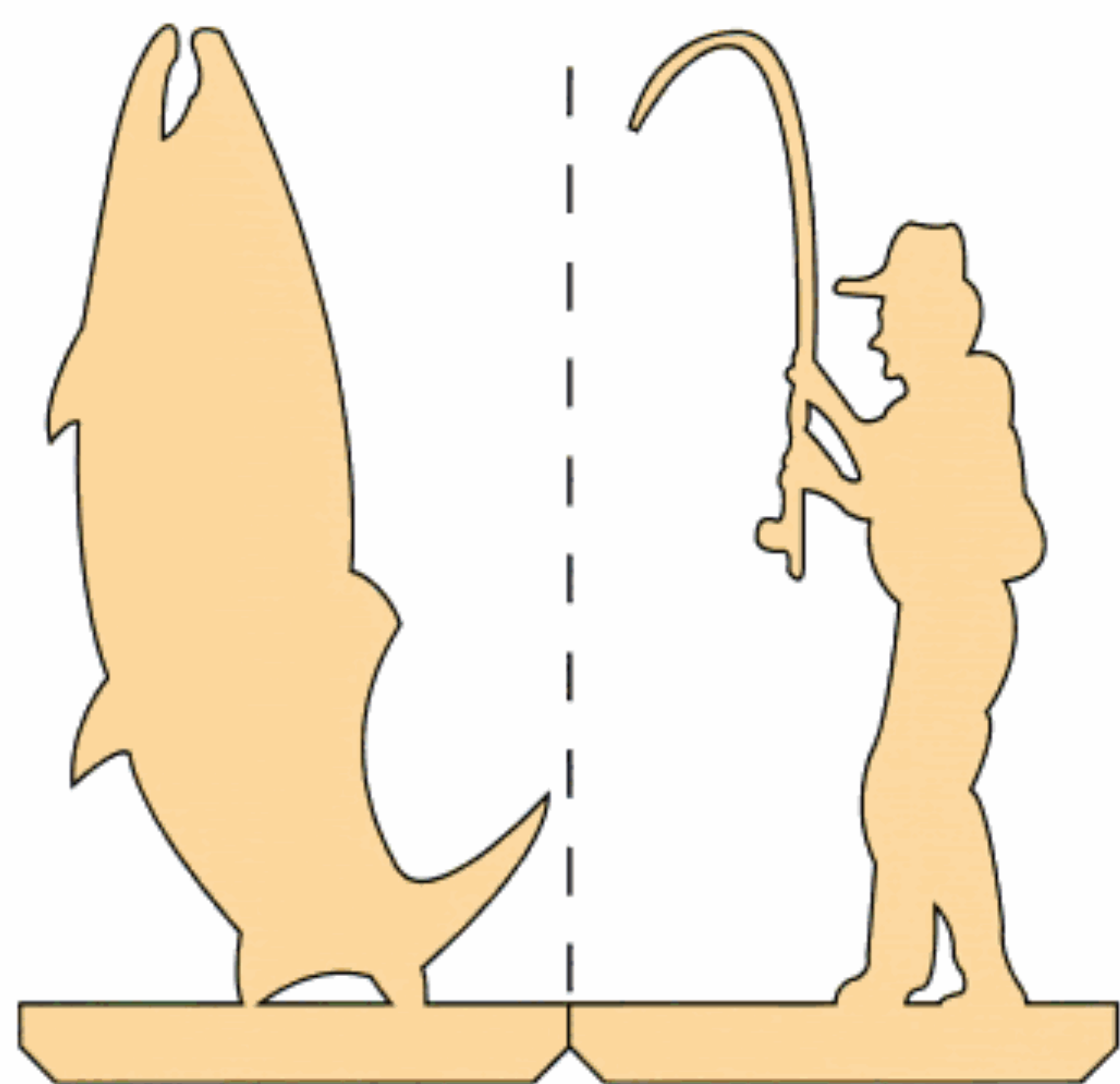
Hunter & Stag Head



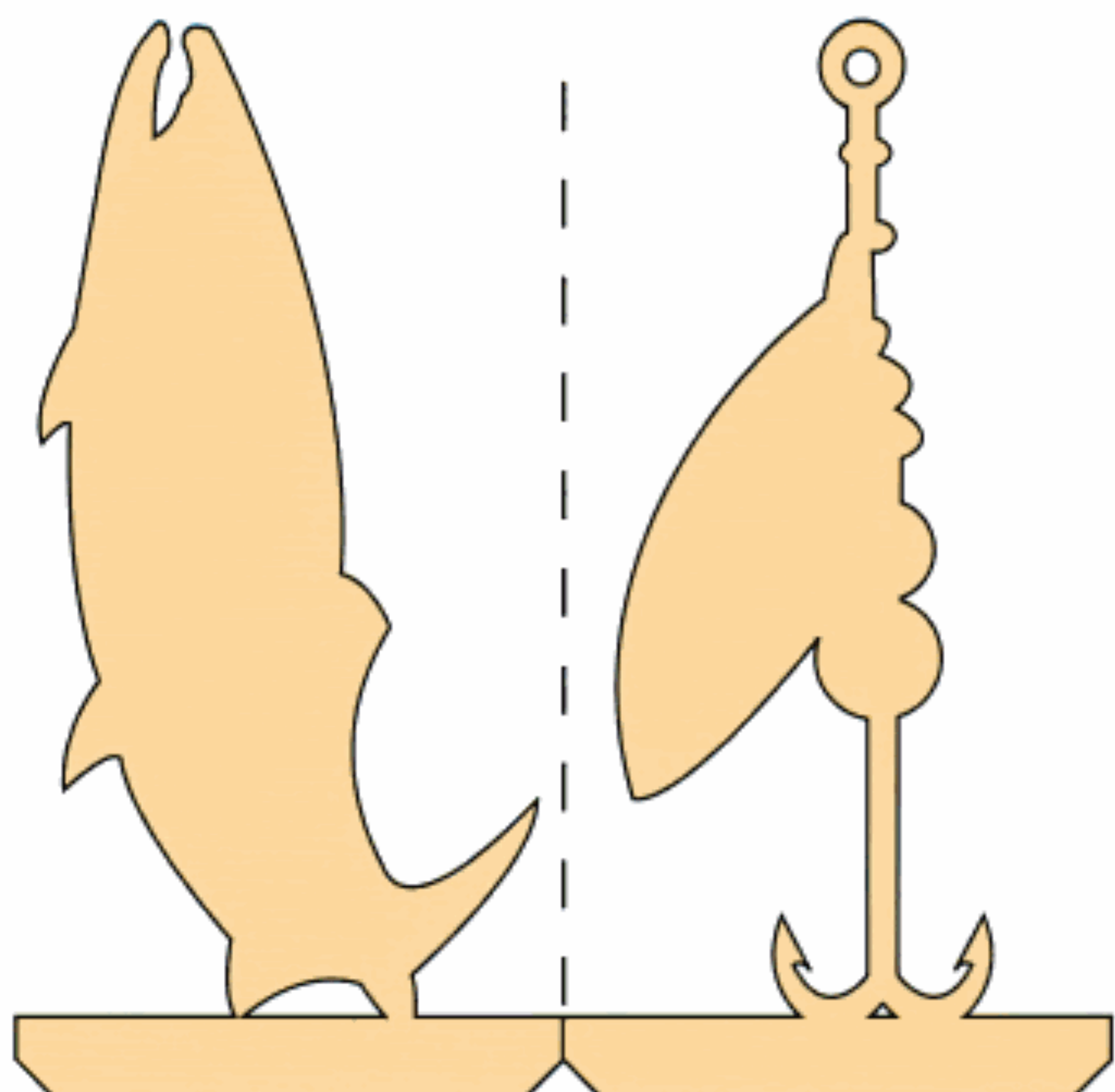
Hunter & Standing Deer



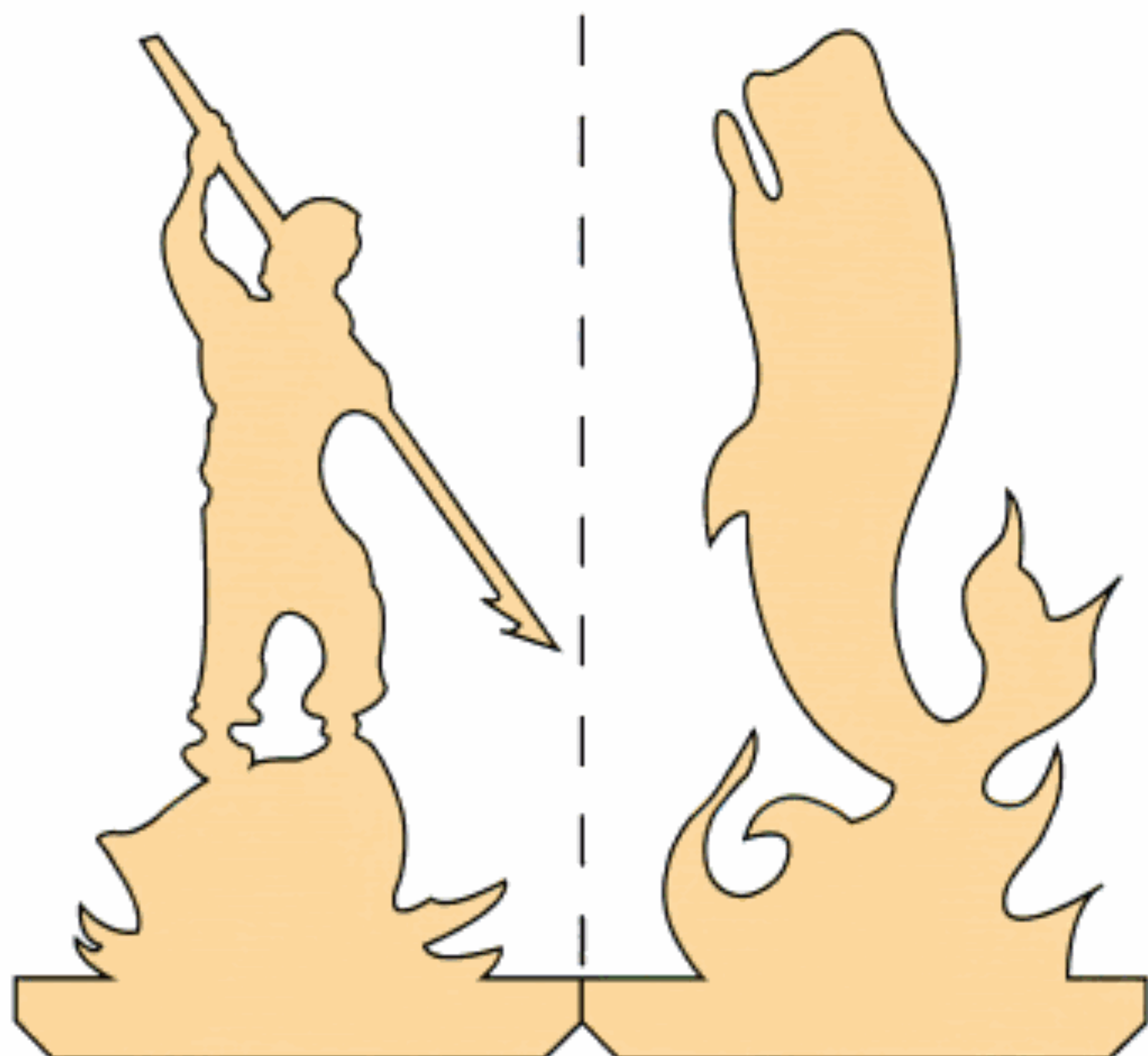
Fox with Hound & Huntsman



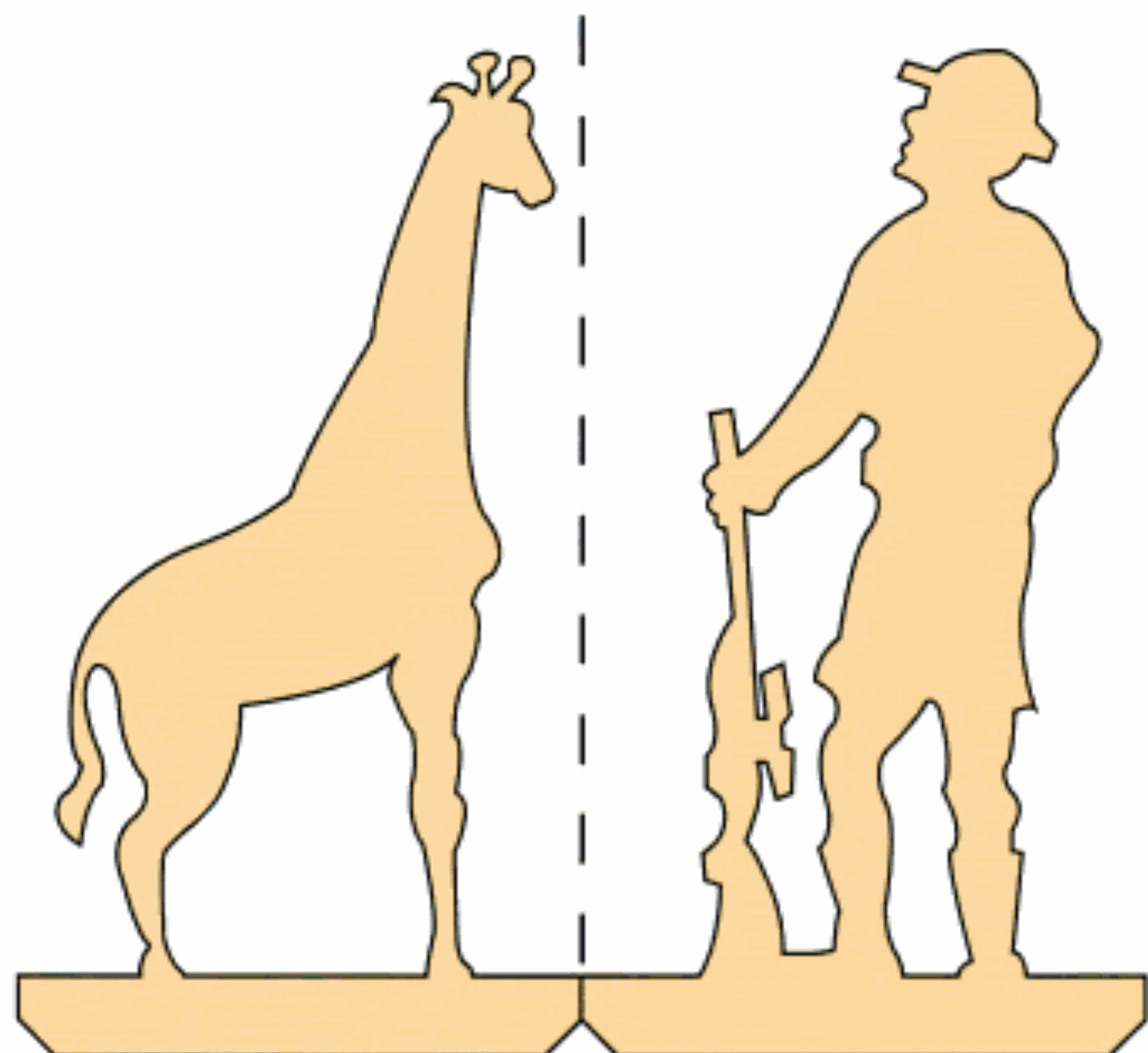
Fish & Fisherman



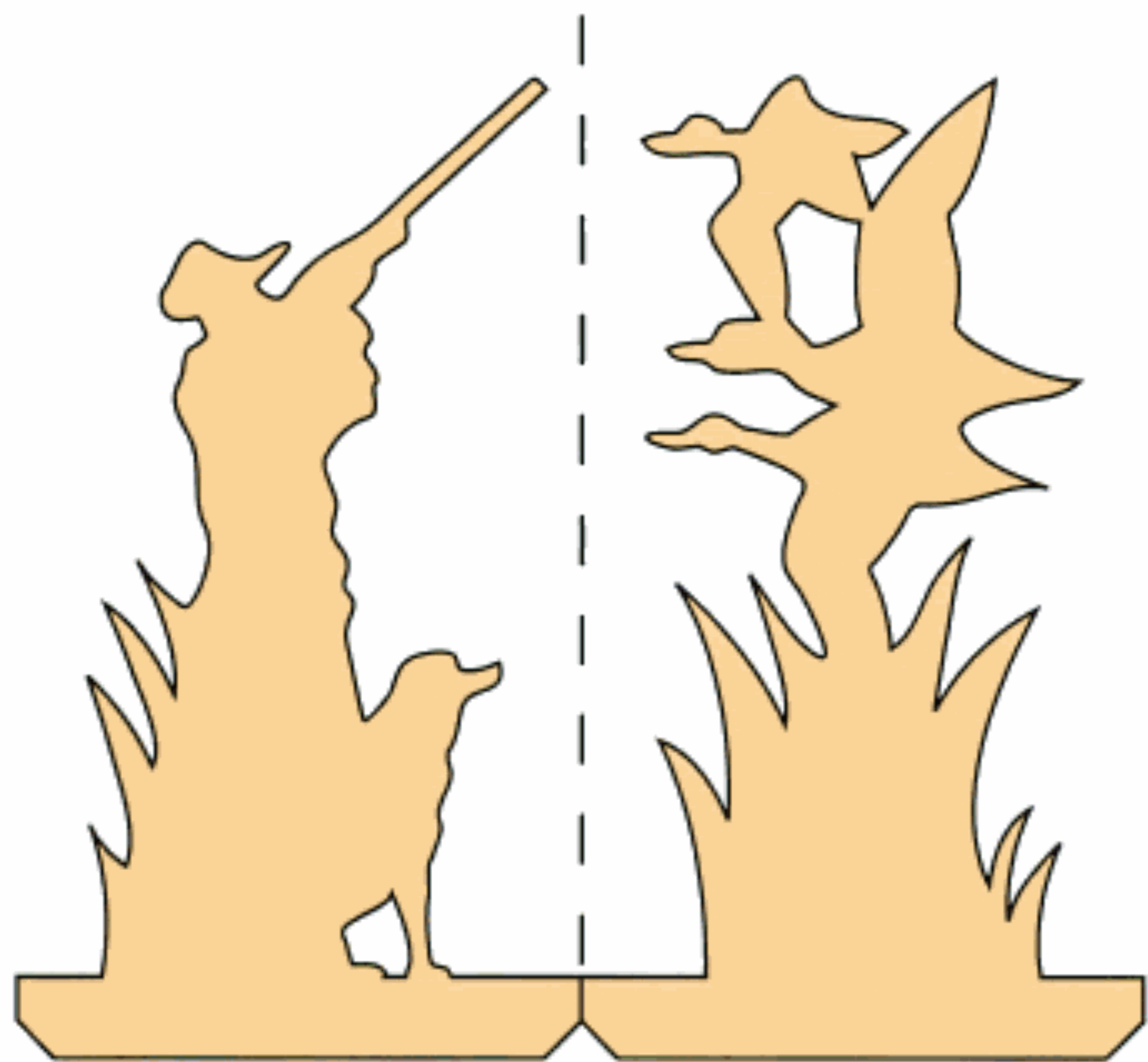
Fish & Lure



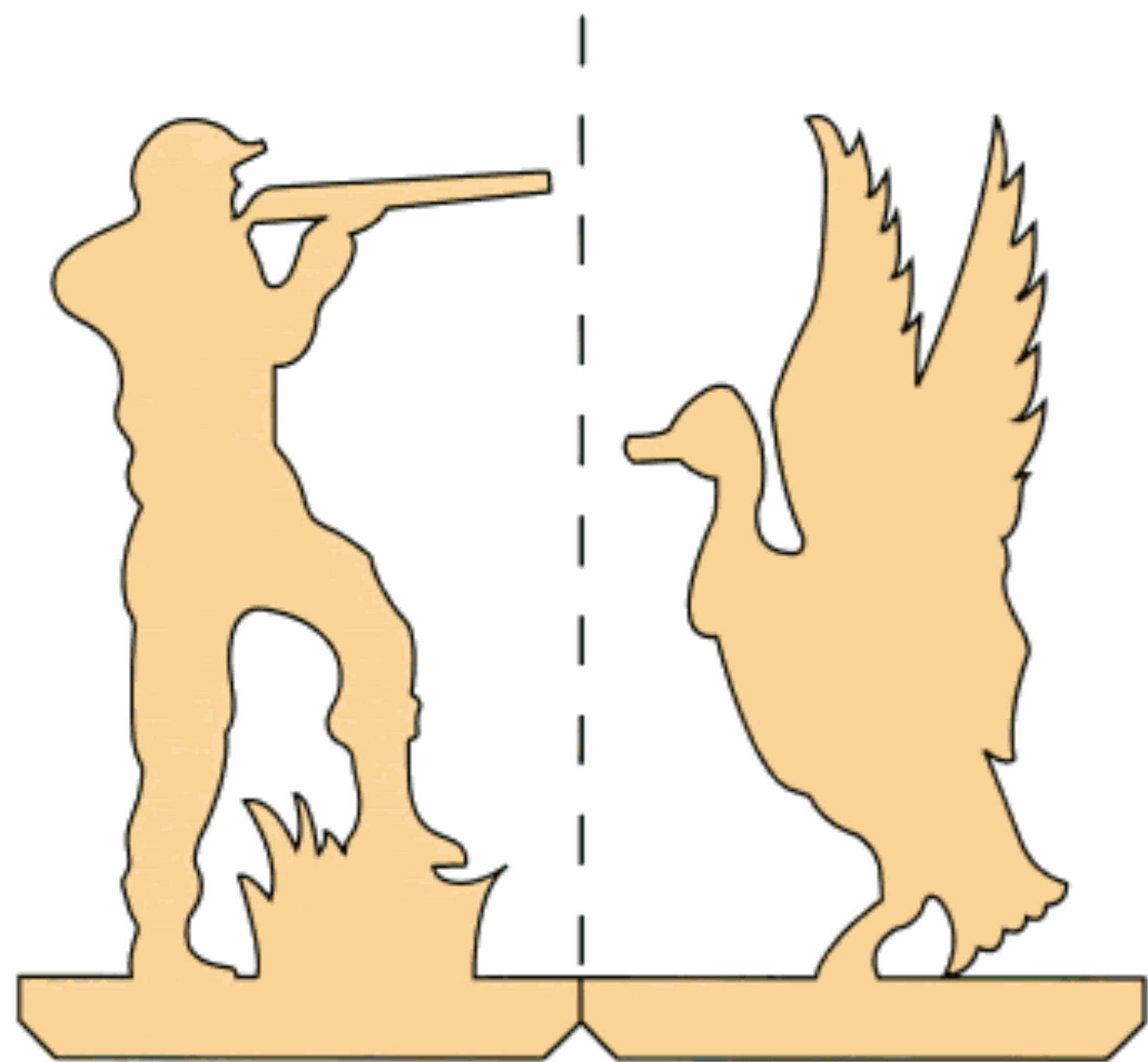
Hunter & Whale



Giraffe & Hunter

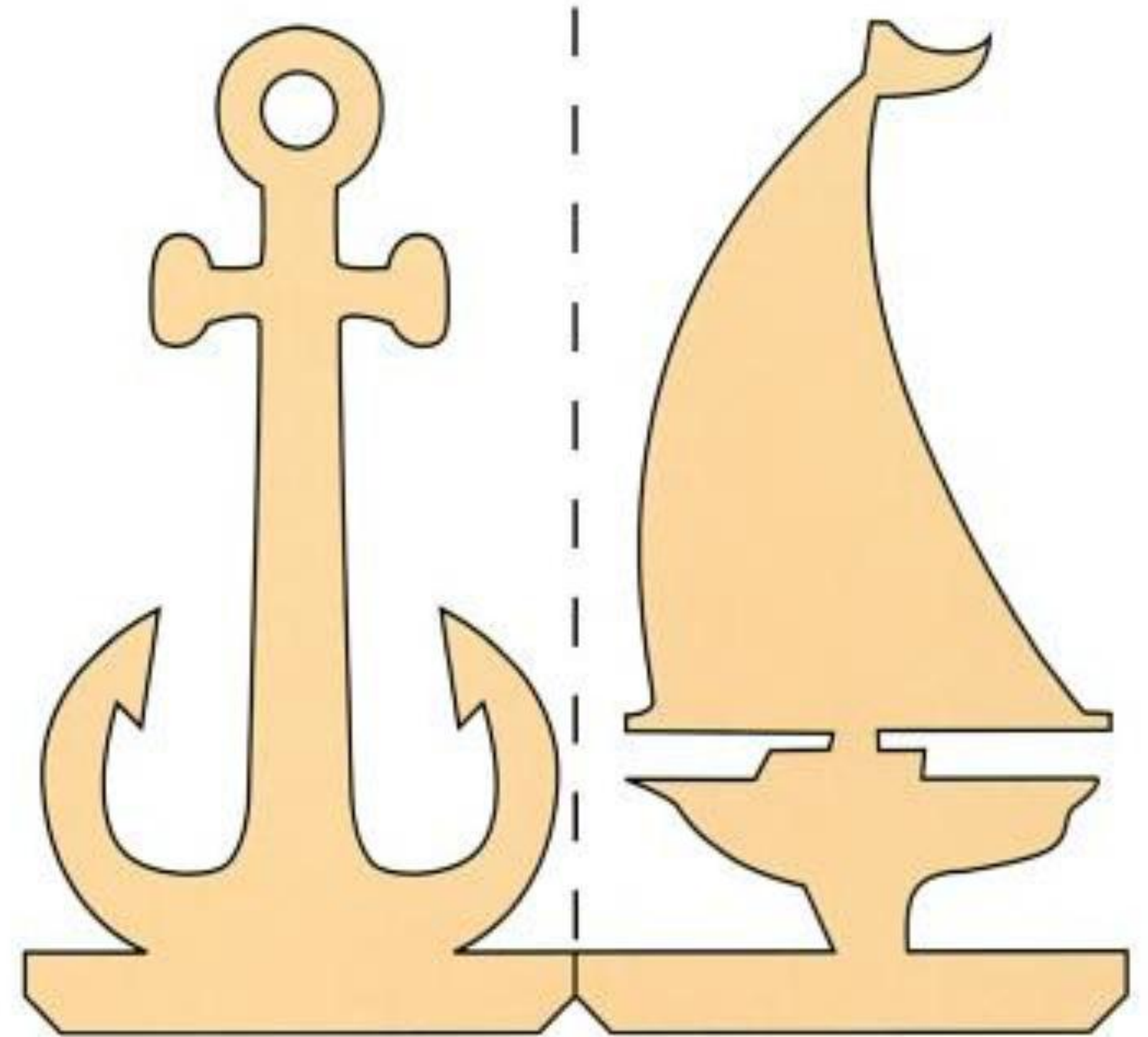


Hunter with Dog & Flight of Ducks

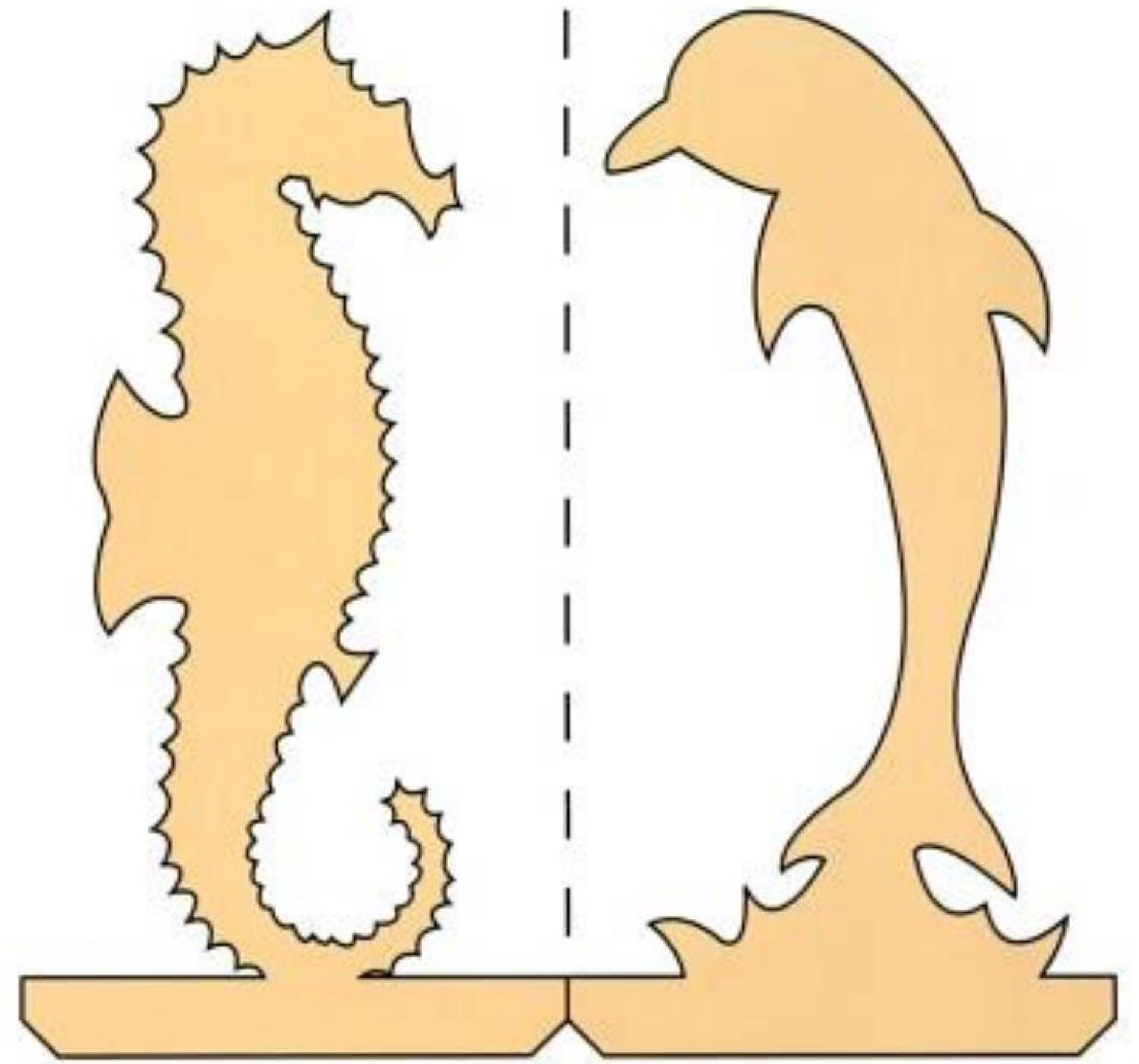


Hunter & Duck

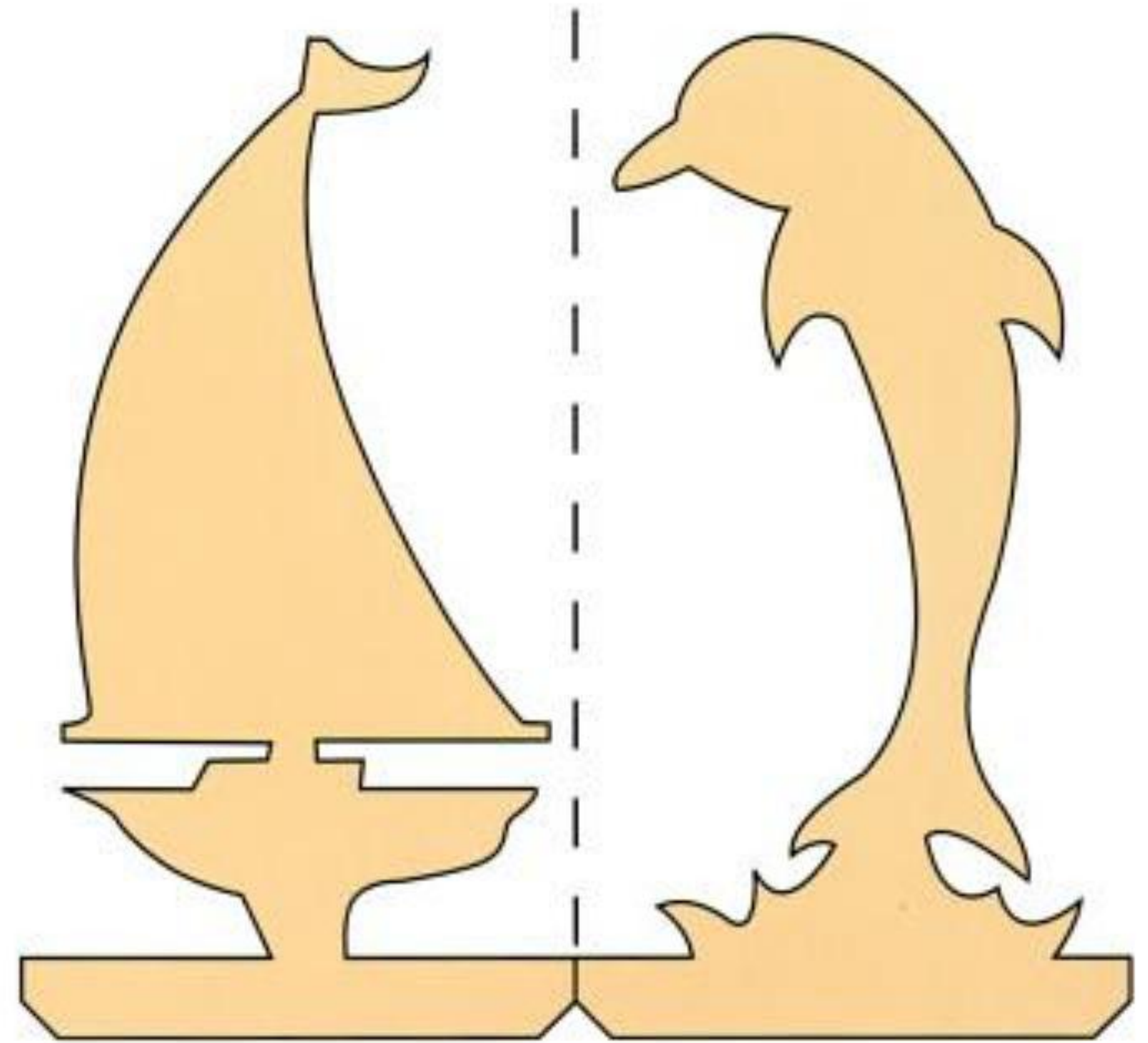
Anchor & Sailboat



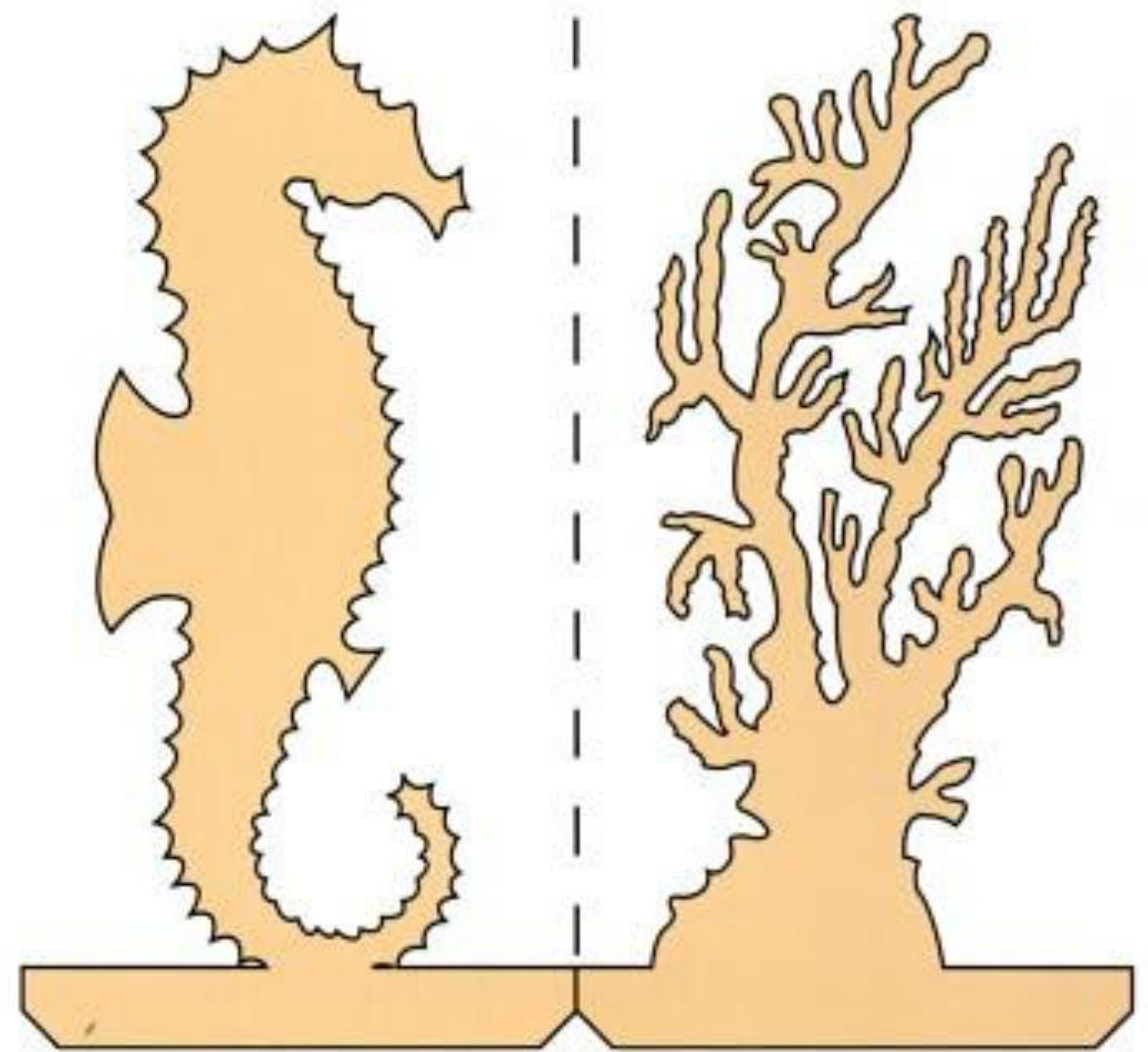
Dolphin & Seahorse



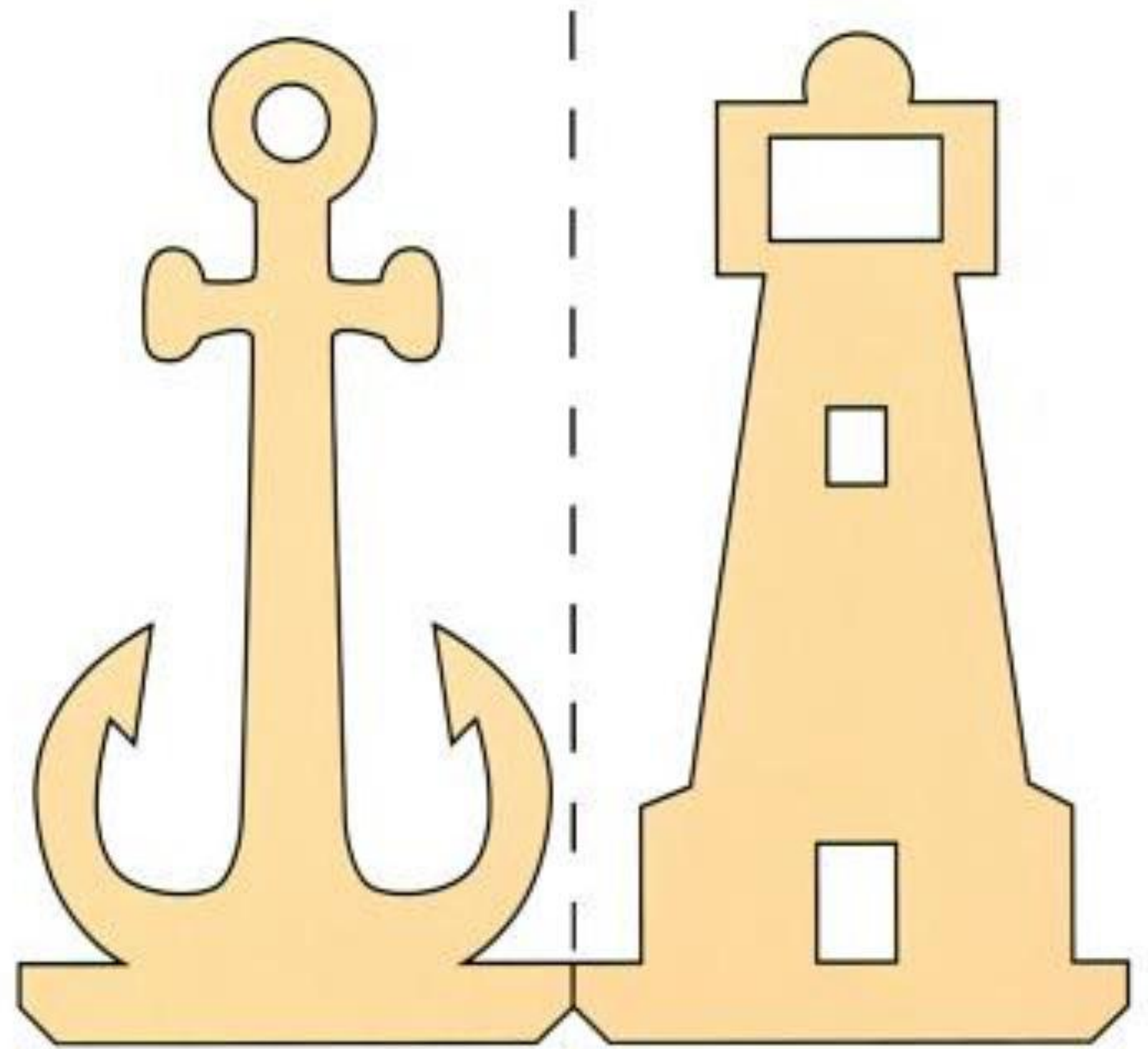
Sailboat & Dolphin

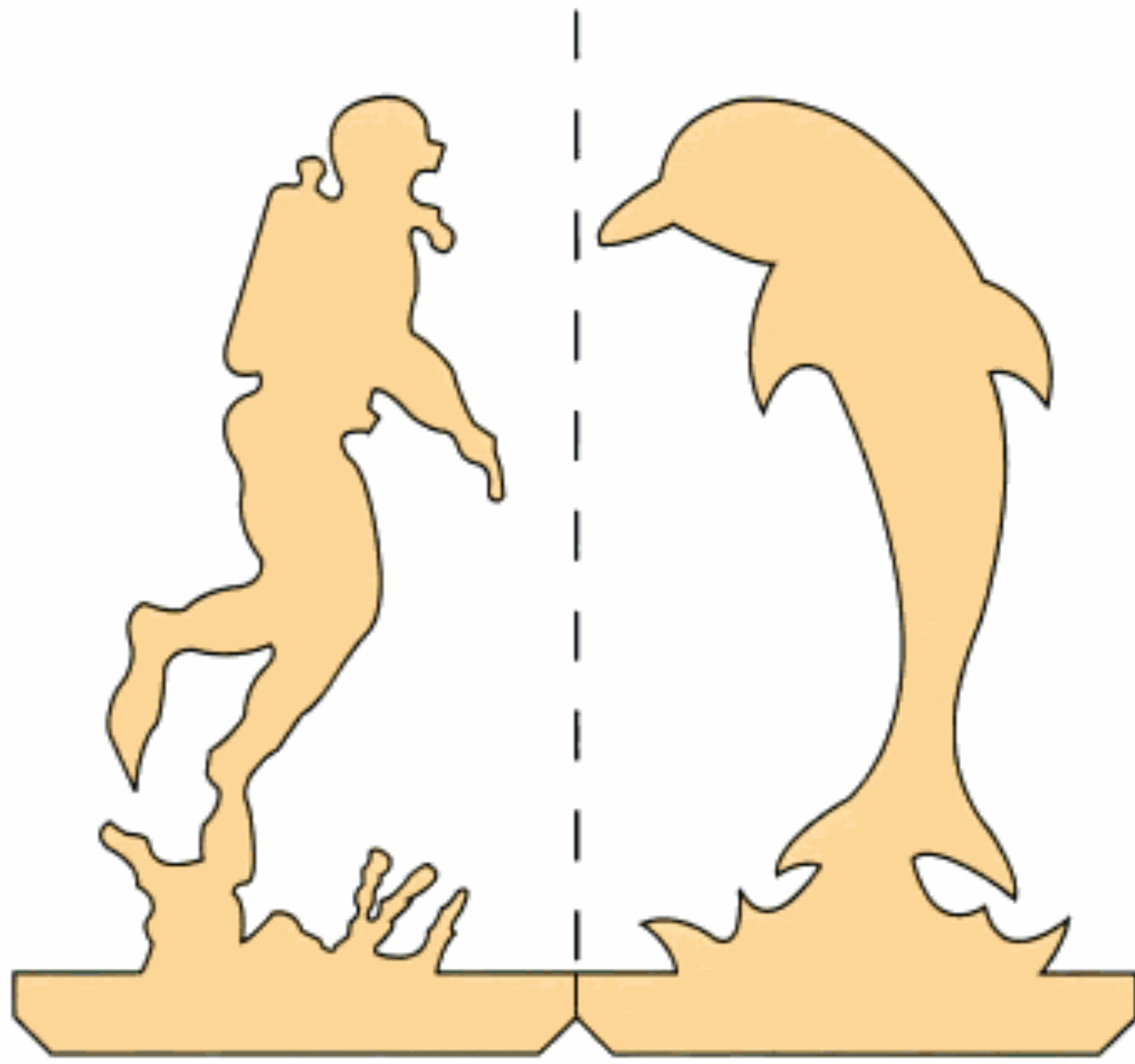


Seahorse & Coral

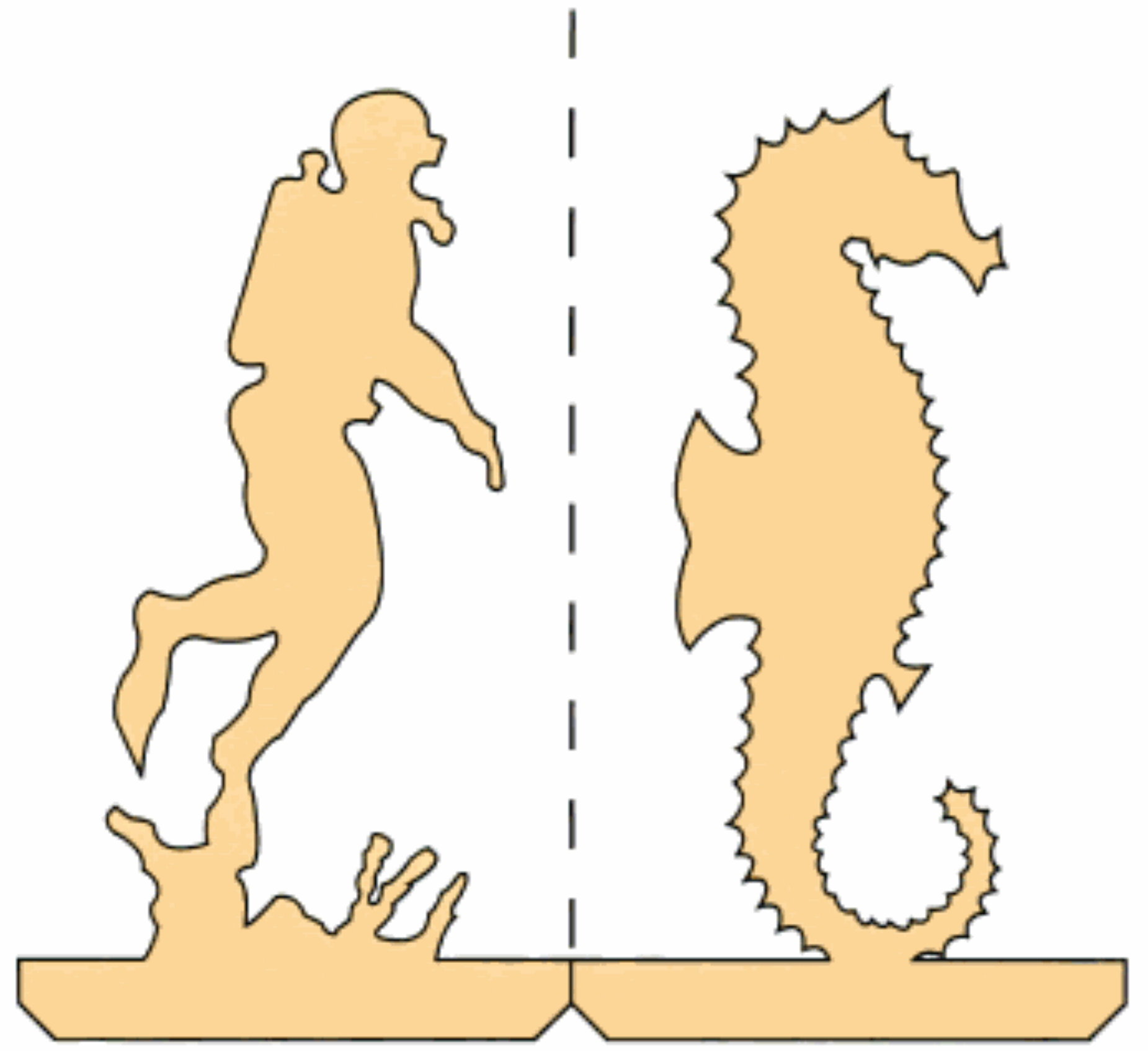


Lighthouse & Anchor

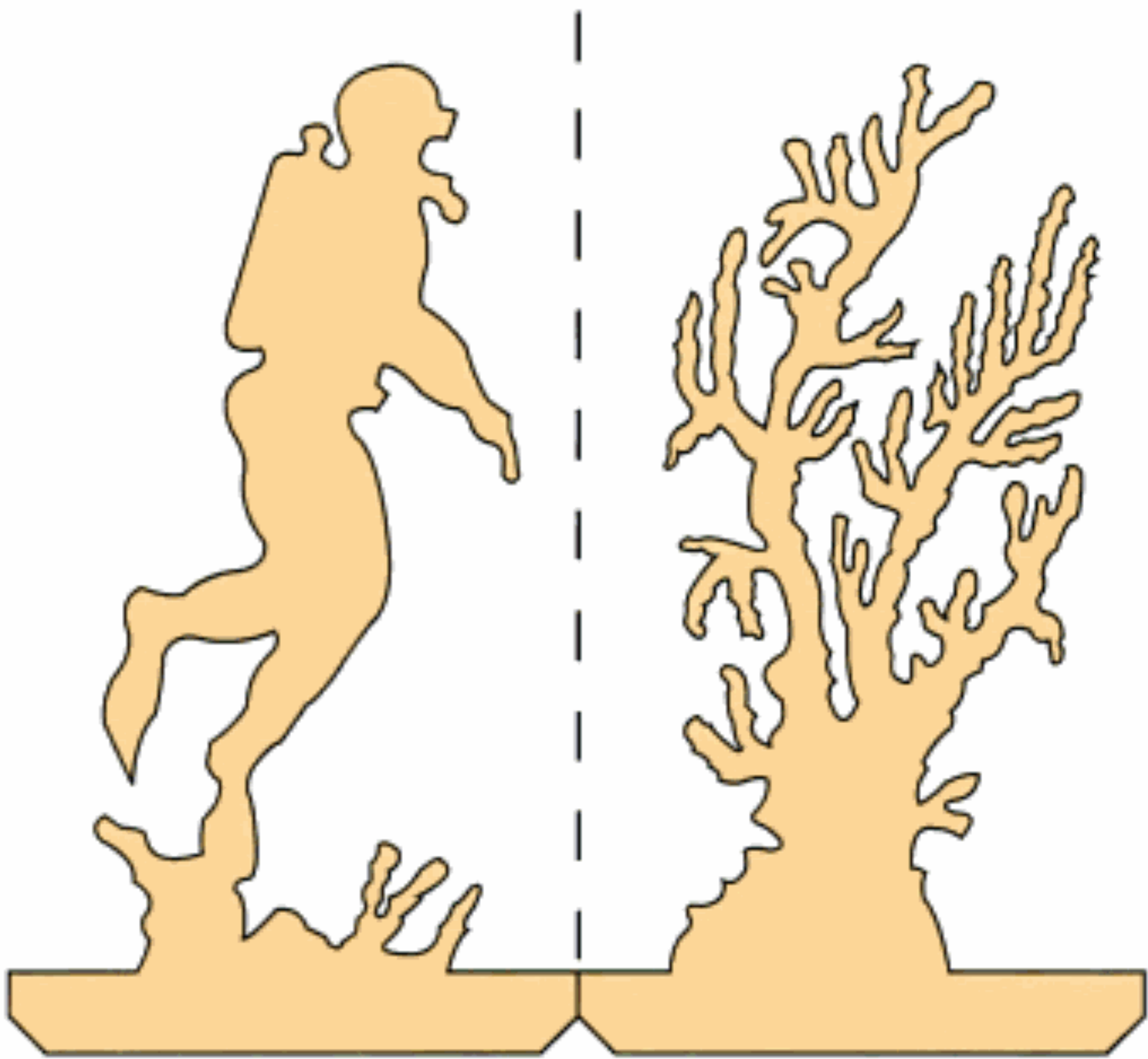




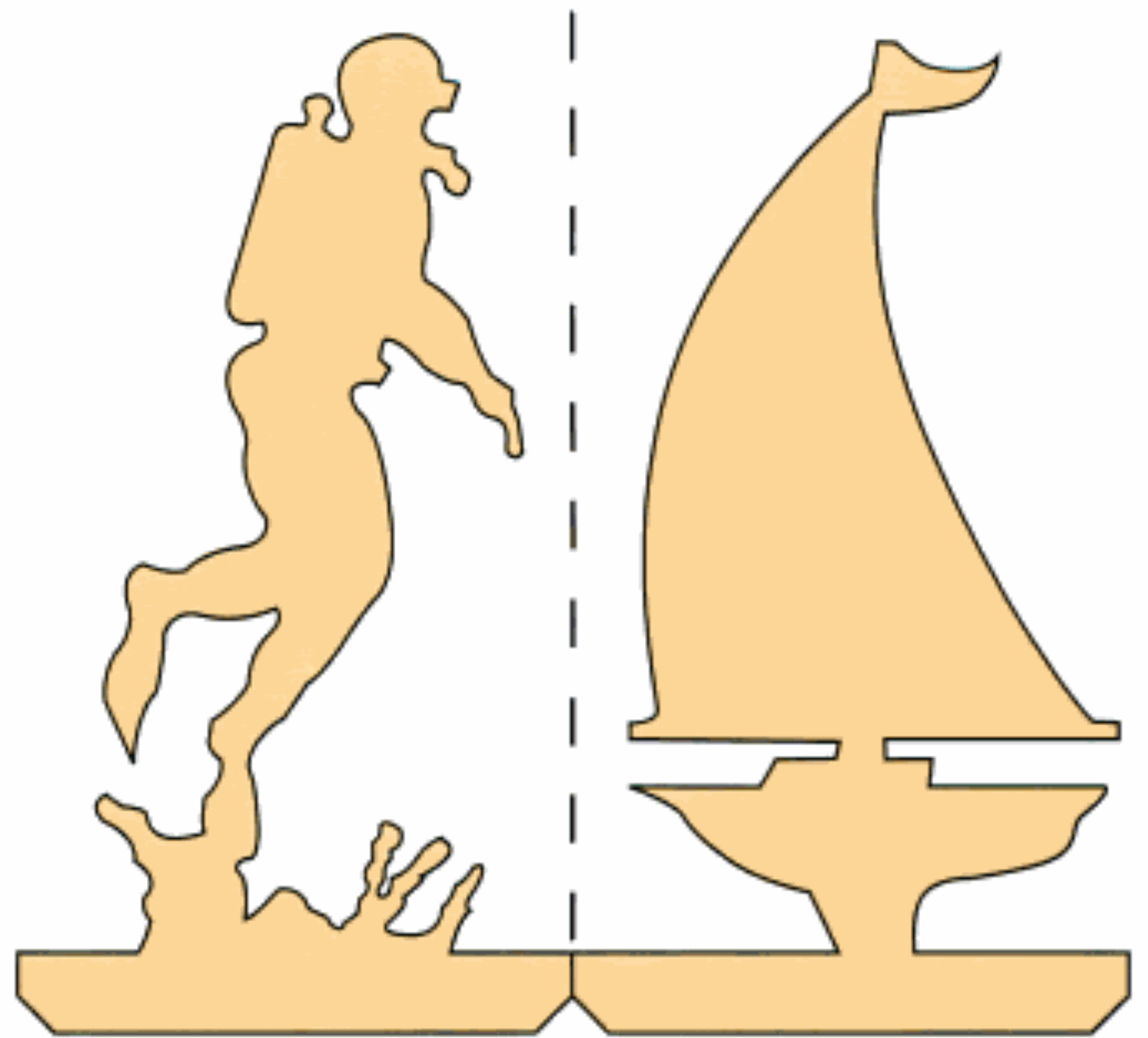
Diver & Dolphin



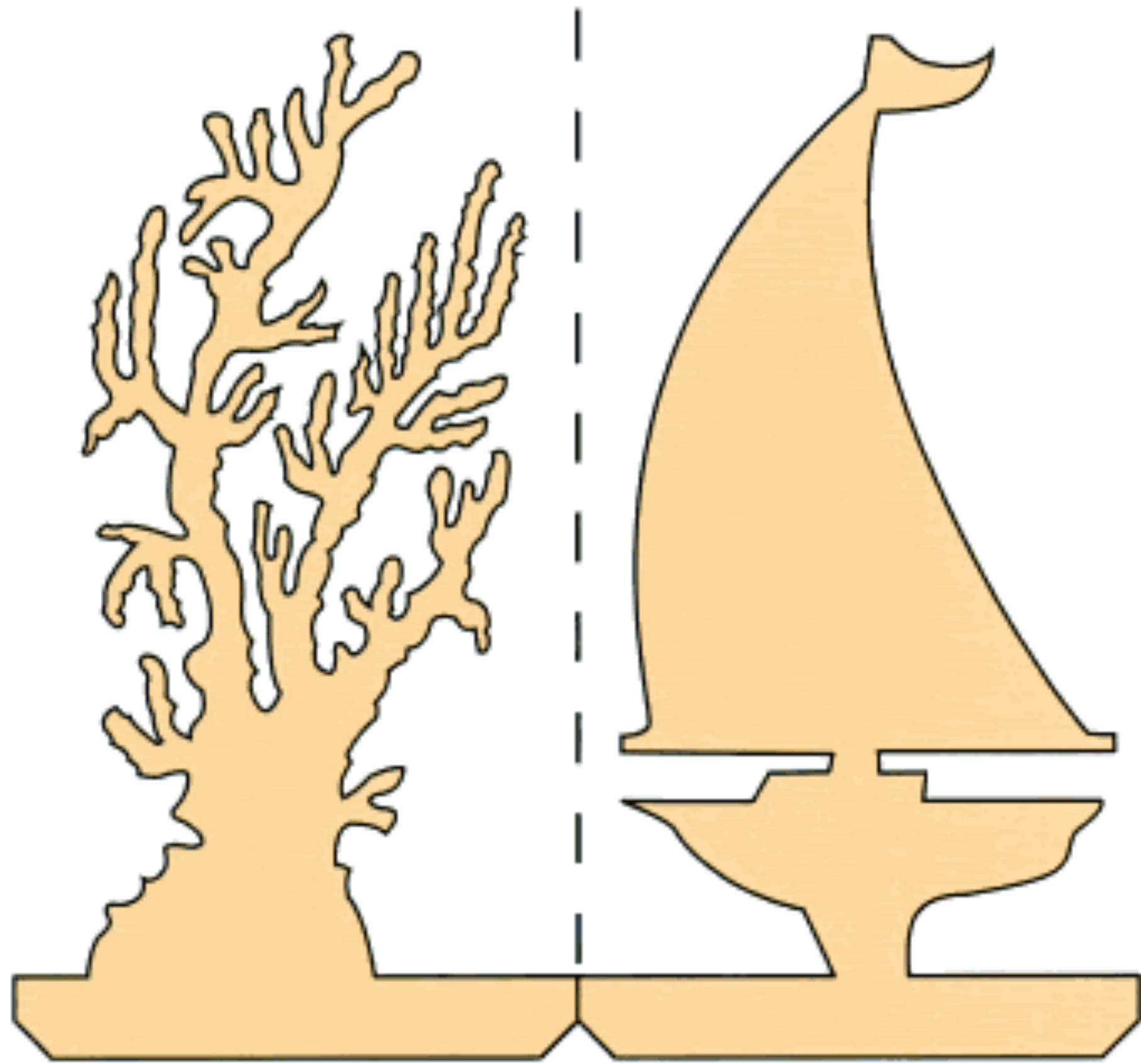
Diver & Seahorse



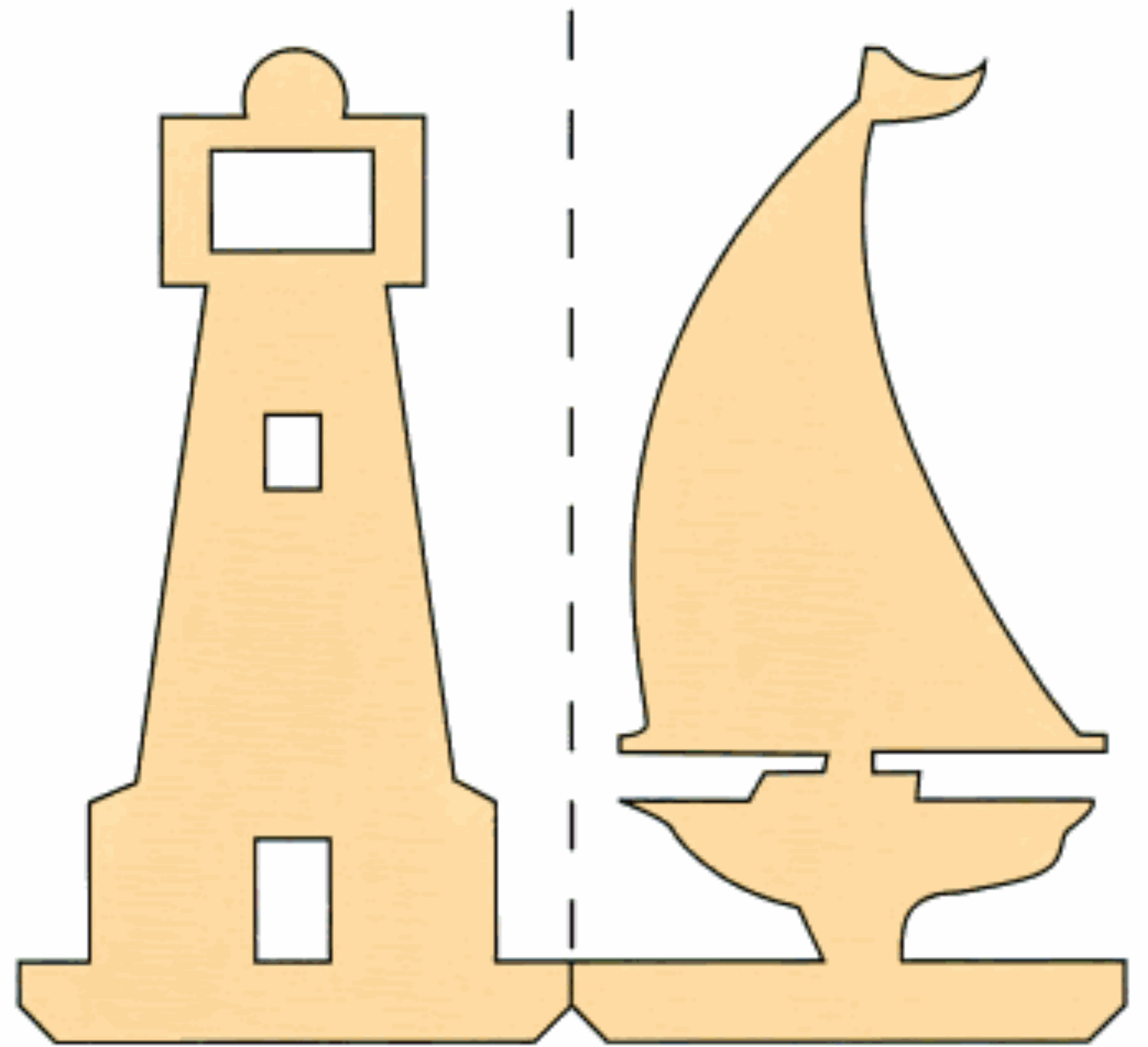
Diver & Coral



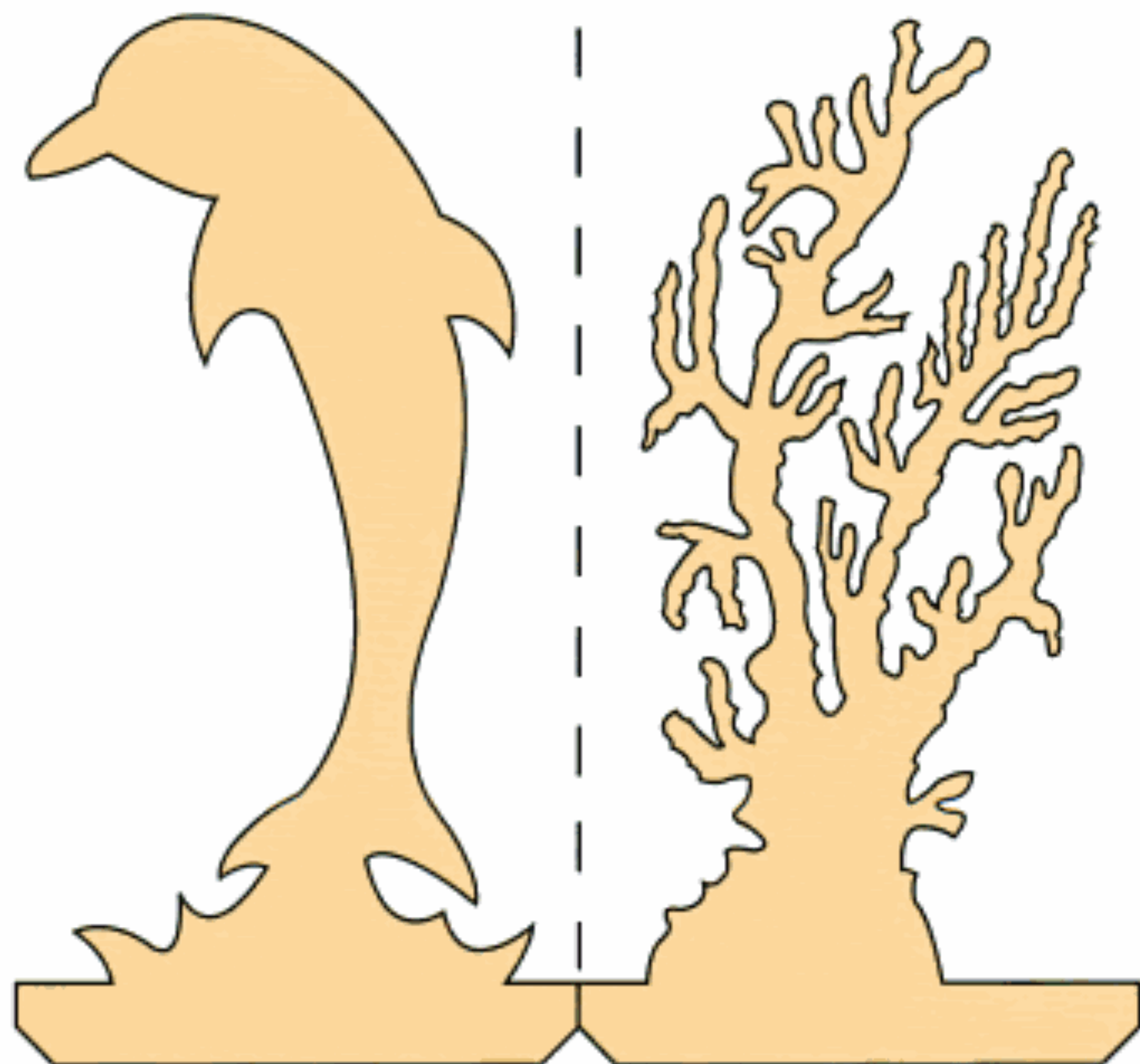
Diver & Sailboat



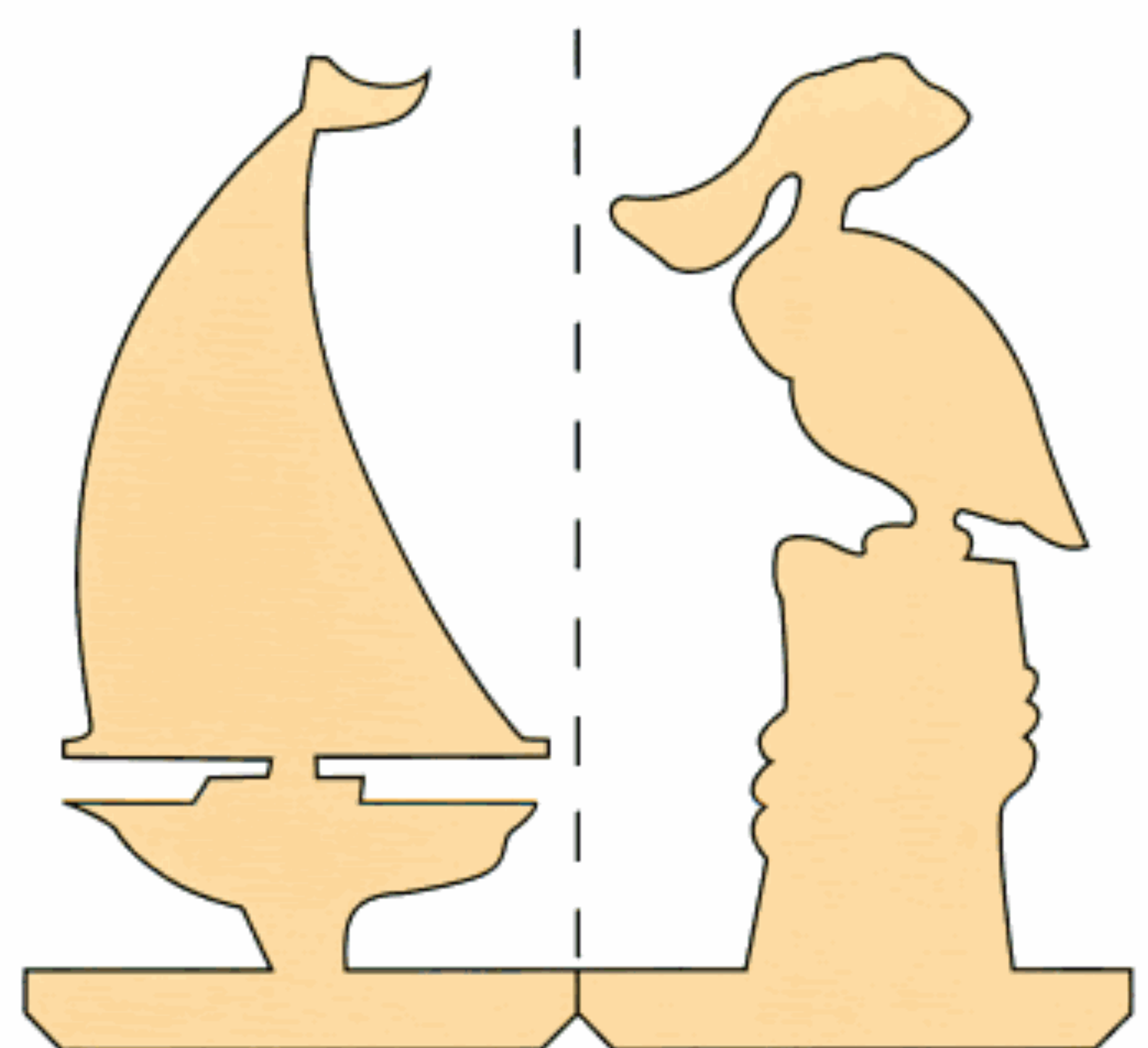
Coral & Sailboat



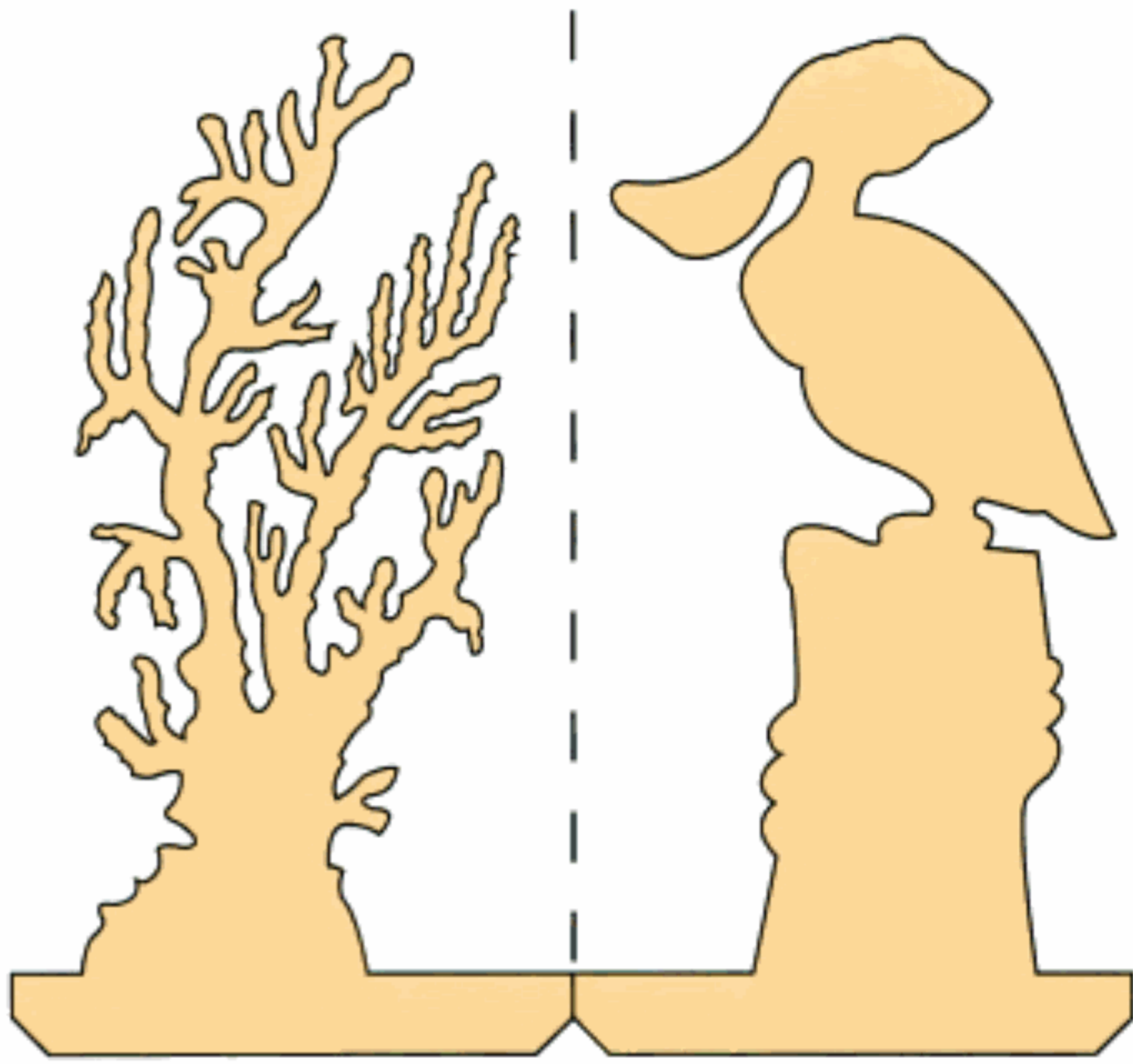
Lighthouse & Sailboat



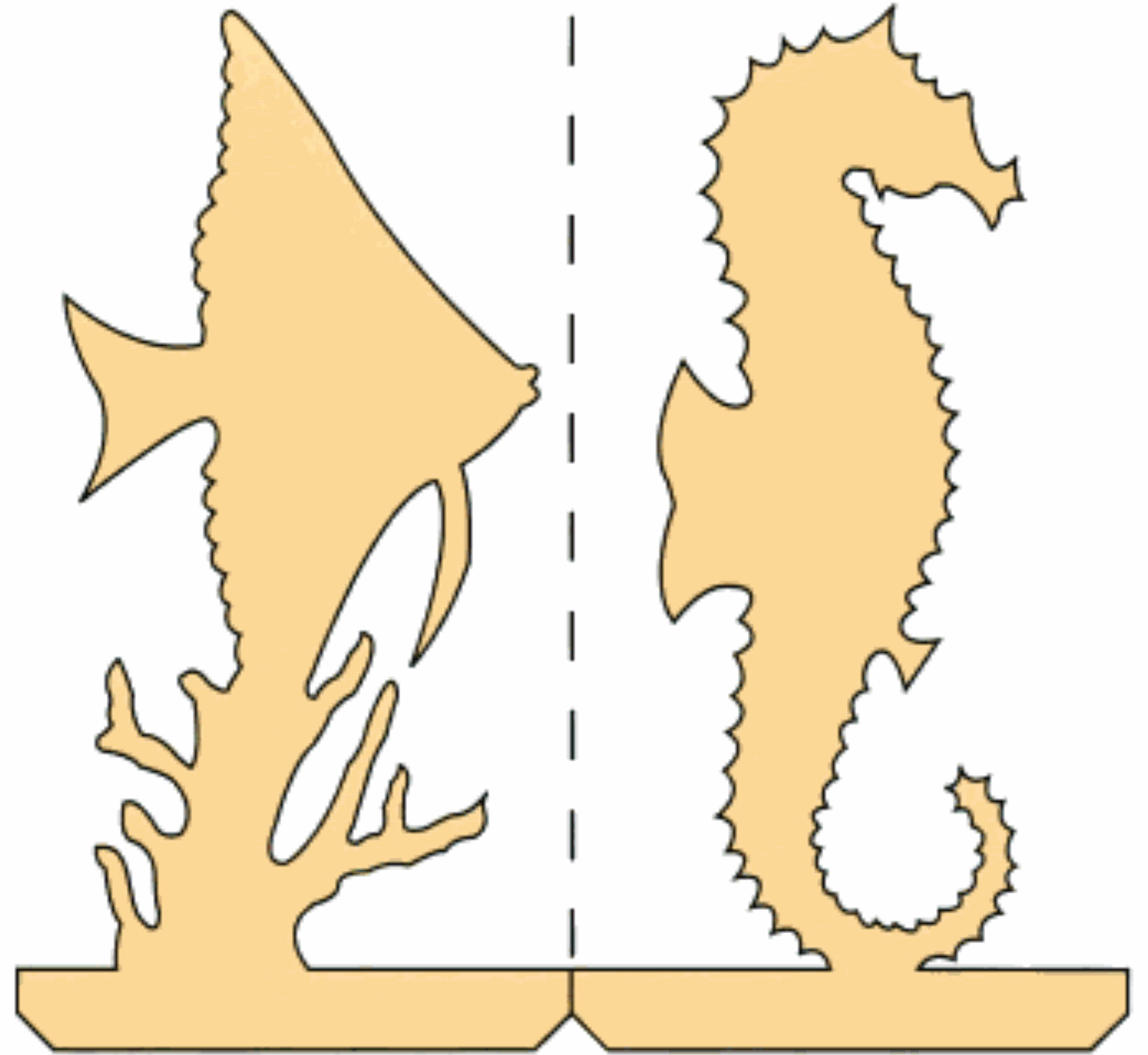
Dolphin & Coral



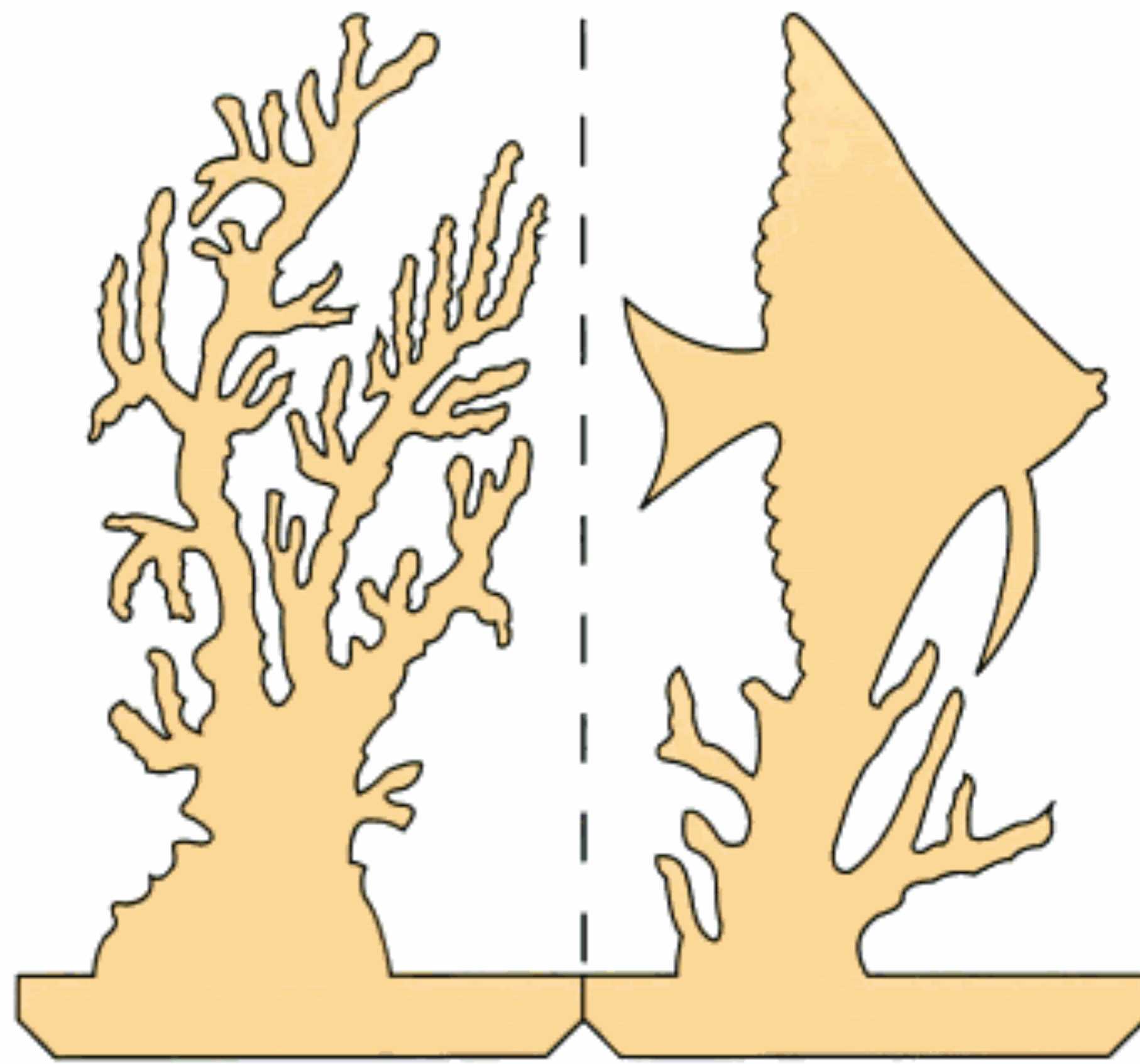
Sailboat & Pelican



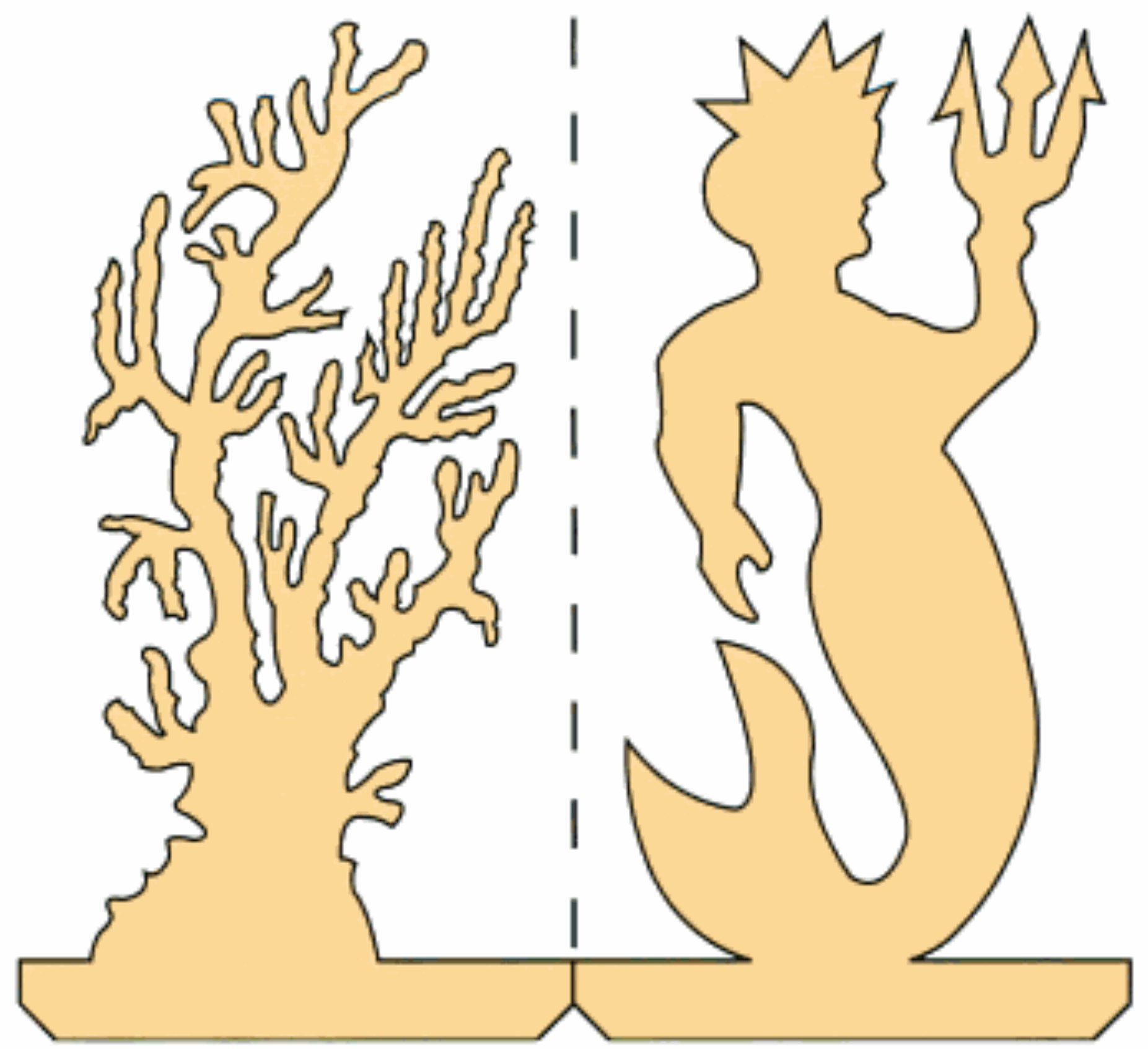
Coral & Pelican



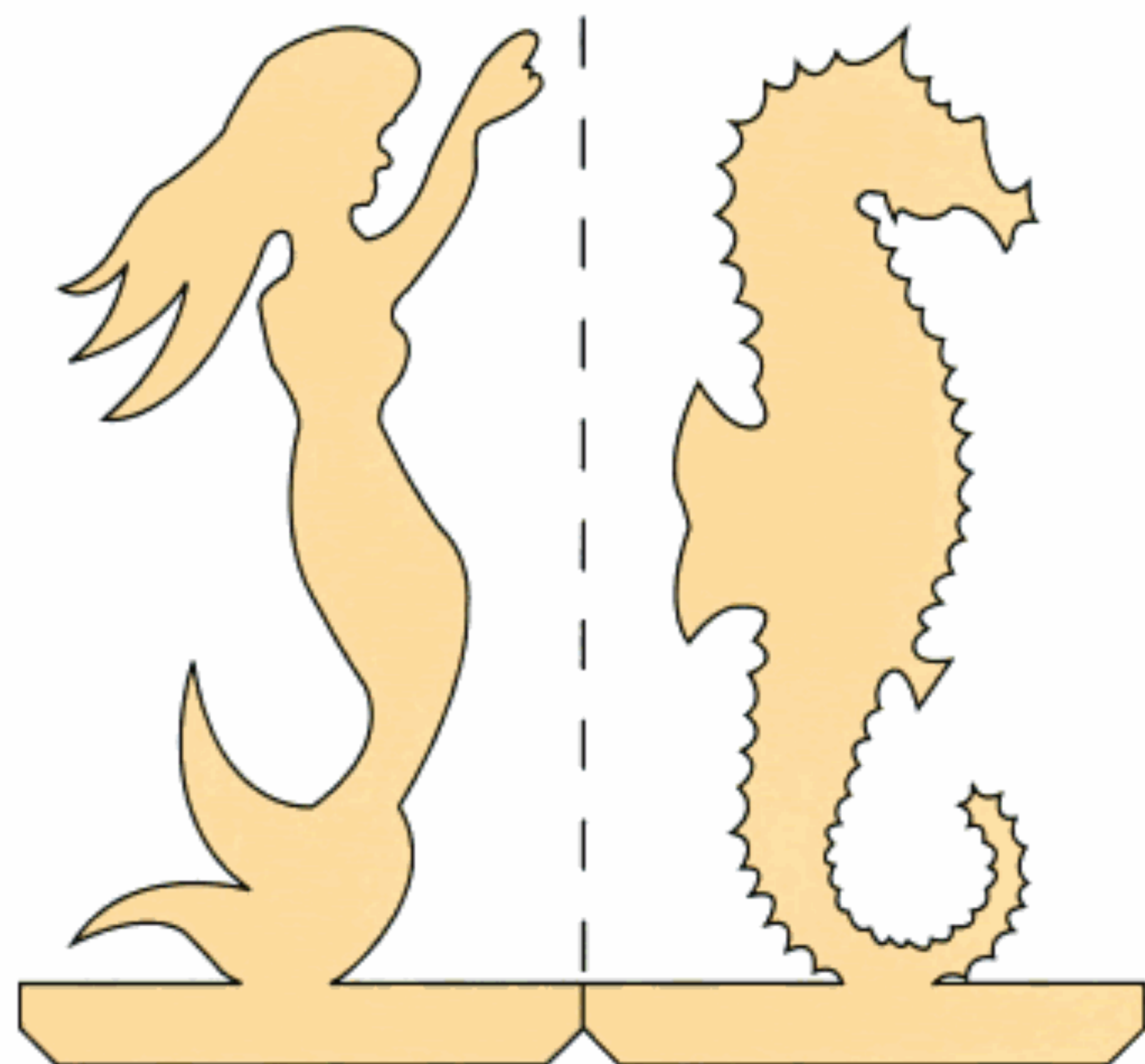
Angel Fish & Seahorse



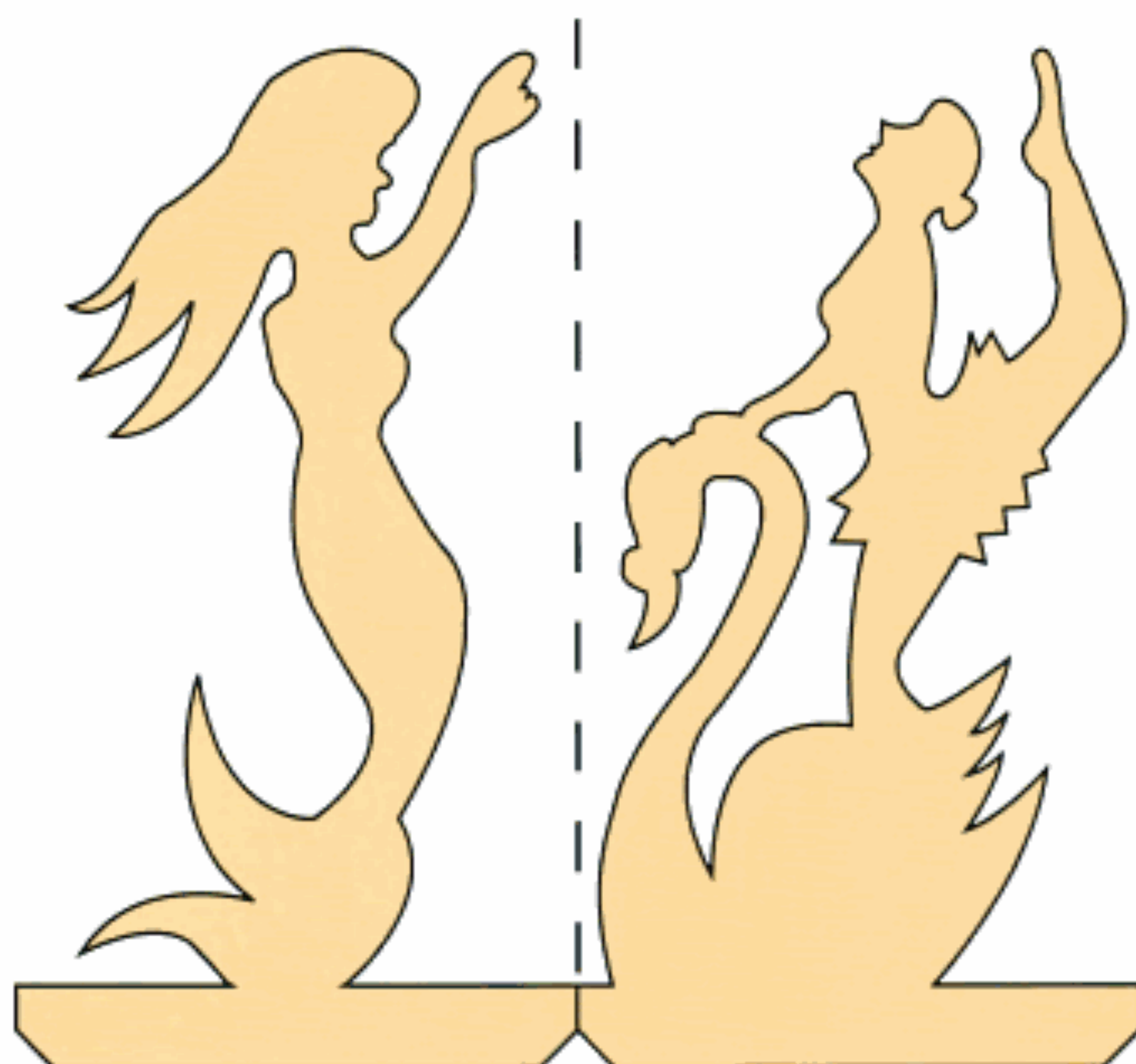
Coral & Angel Fish



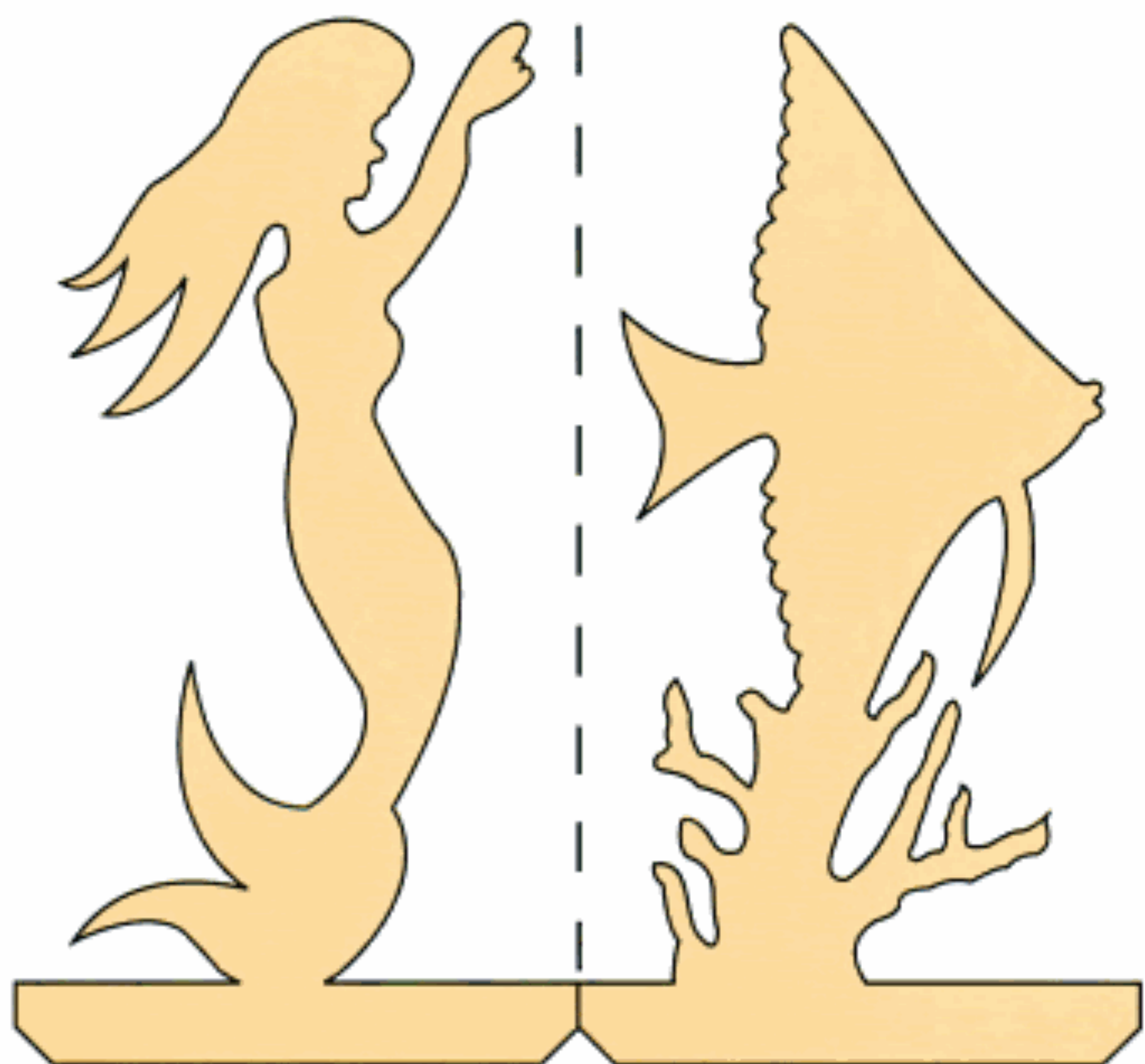
Coral & Neptune



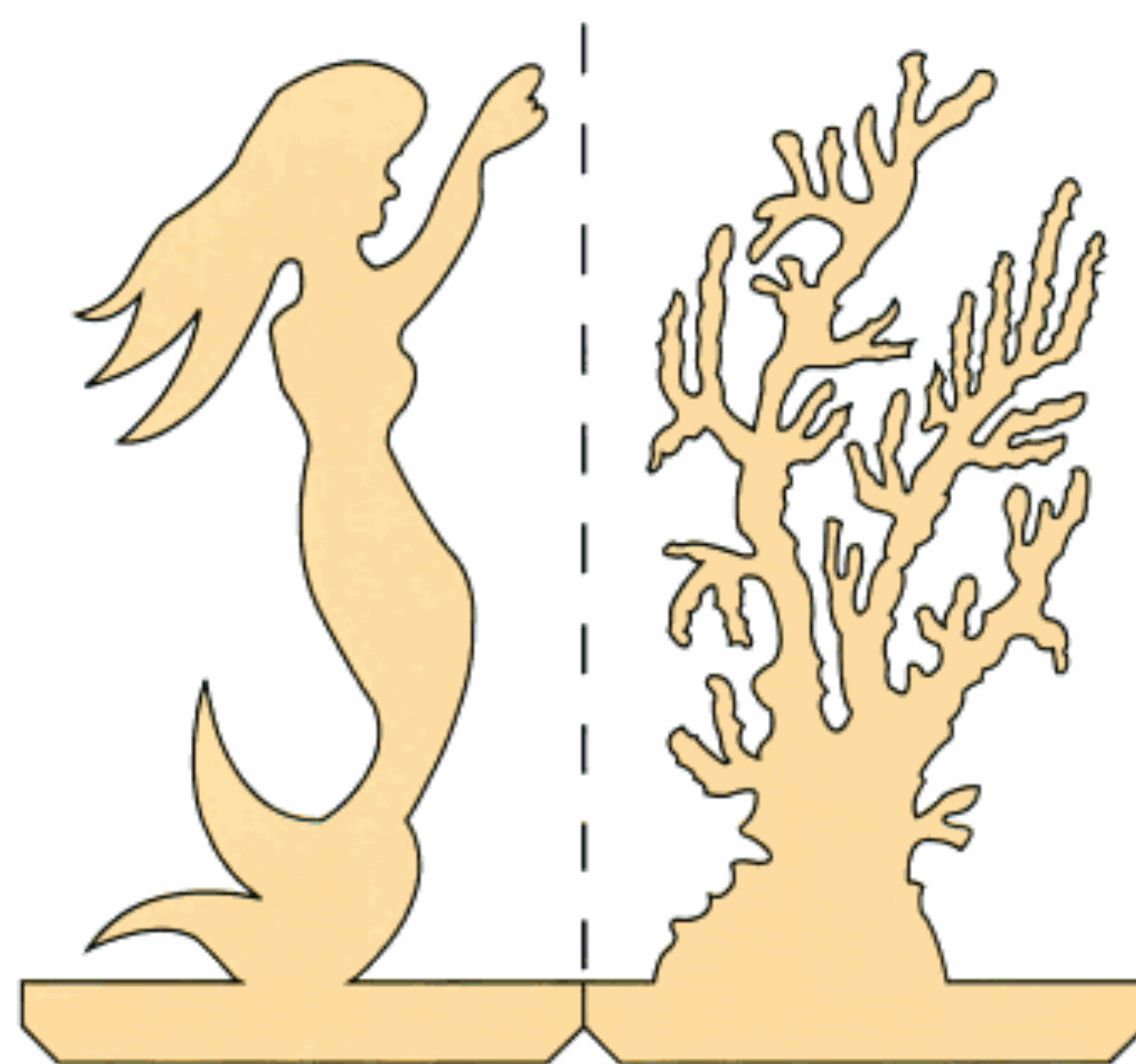
Mermaid & Seahorse



Mermaid & Ballerina on Swan

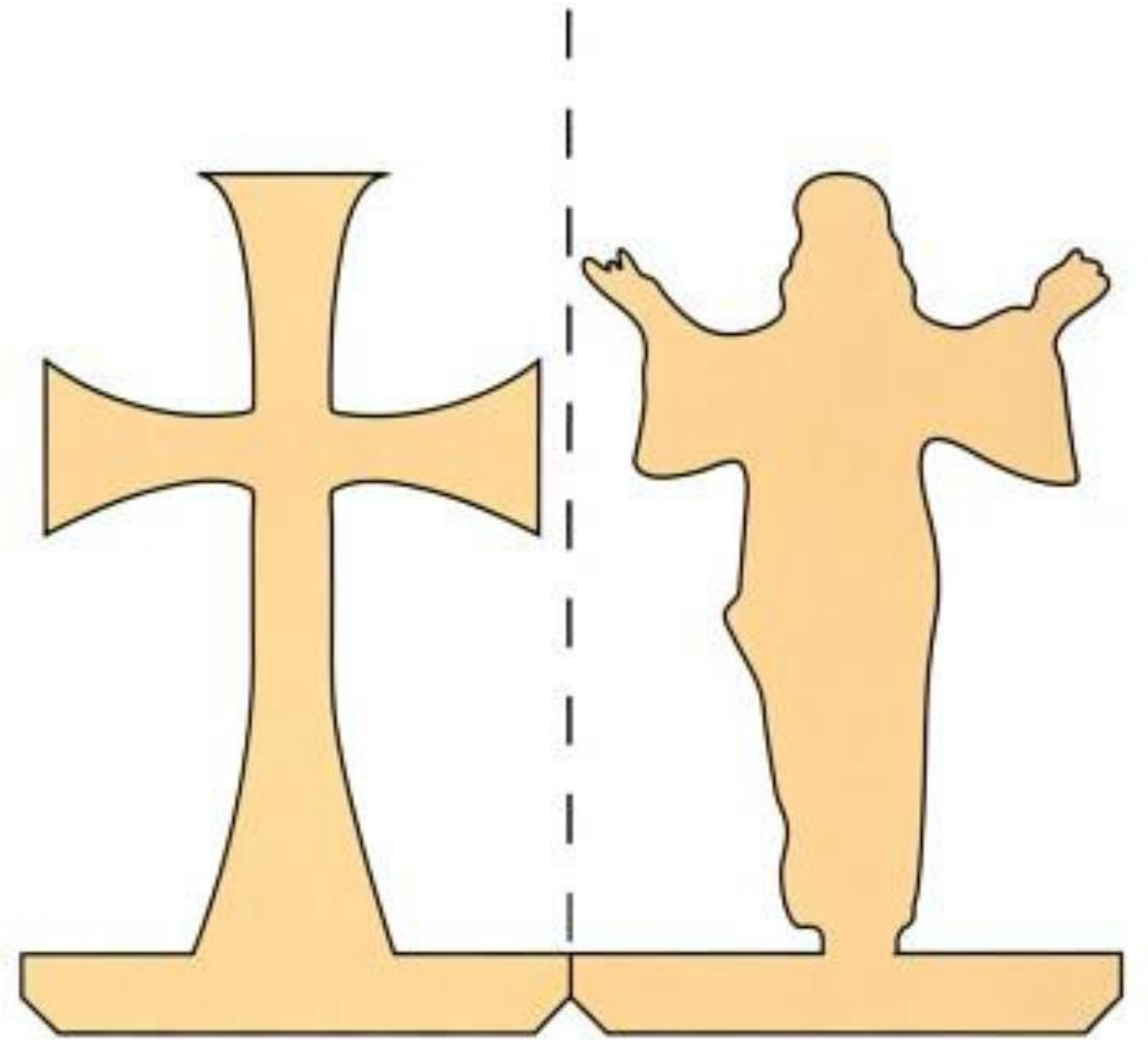


Mermaid & Angel Fish

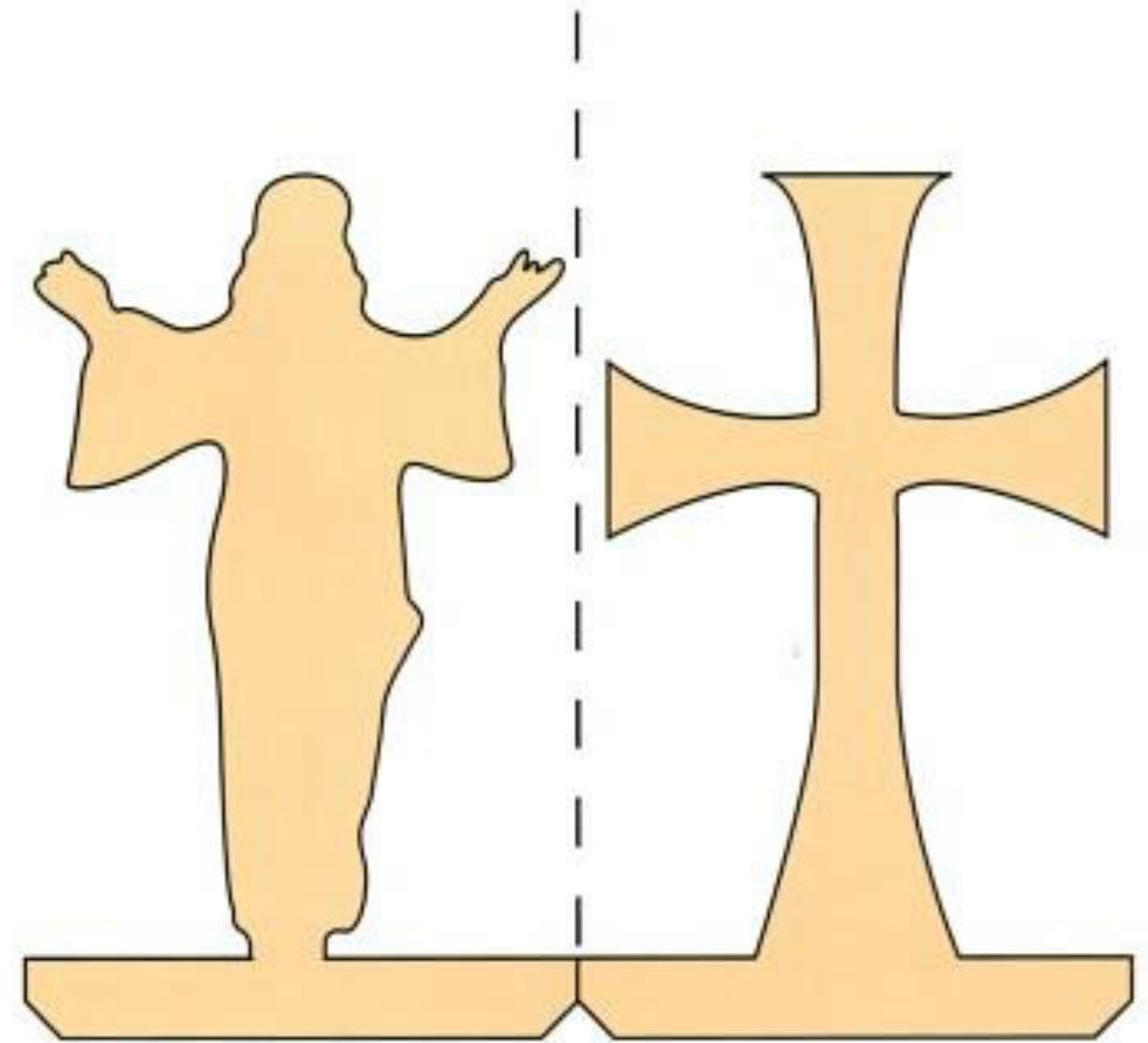
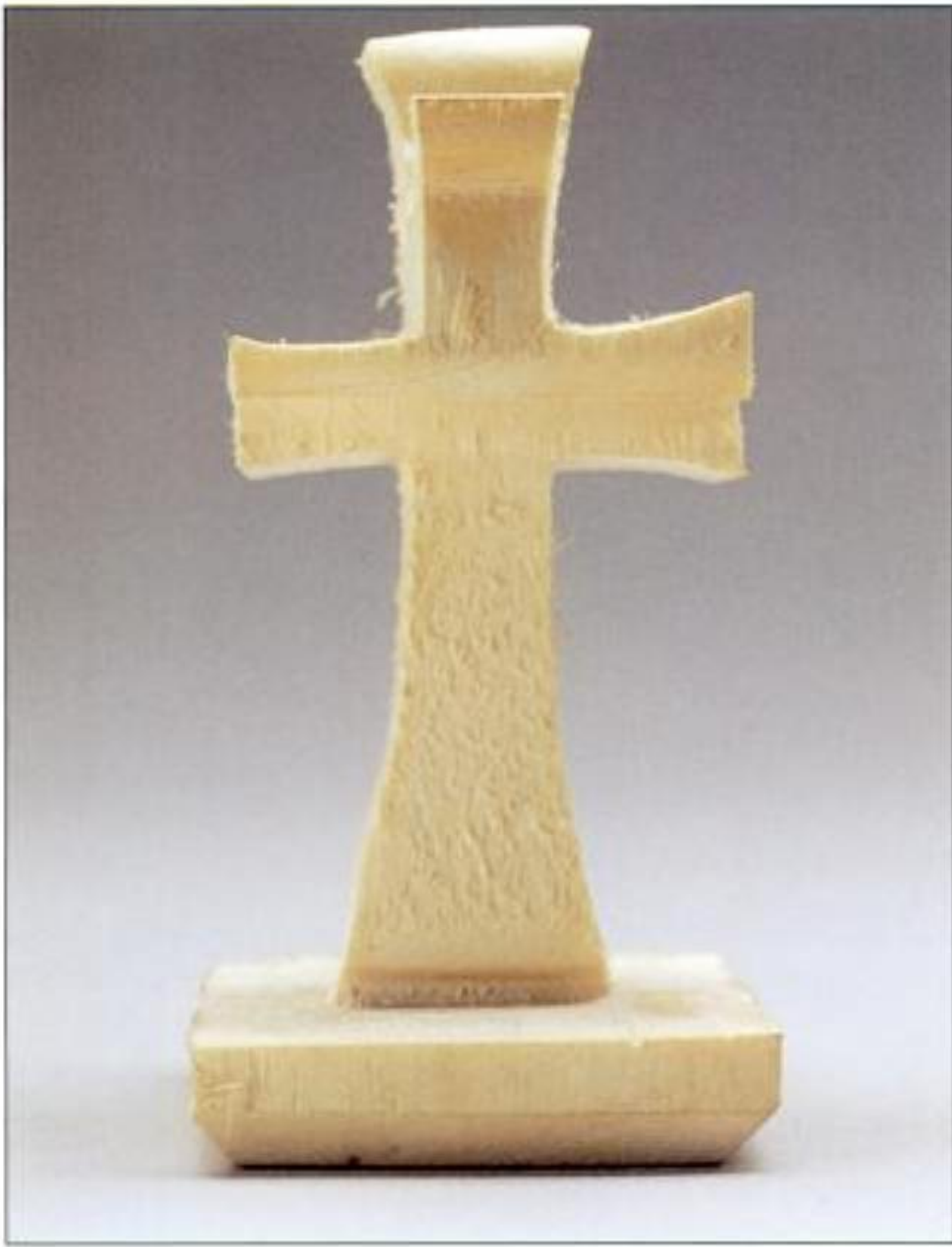


Mermaid & Coral

Jesus & Cross



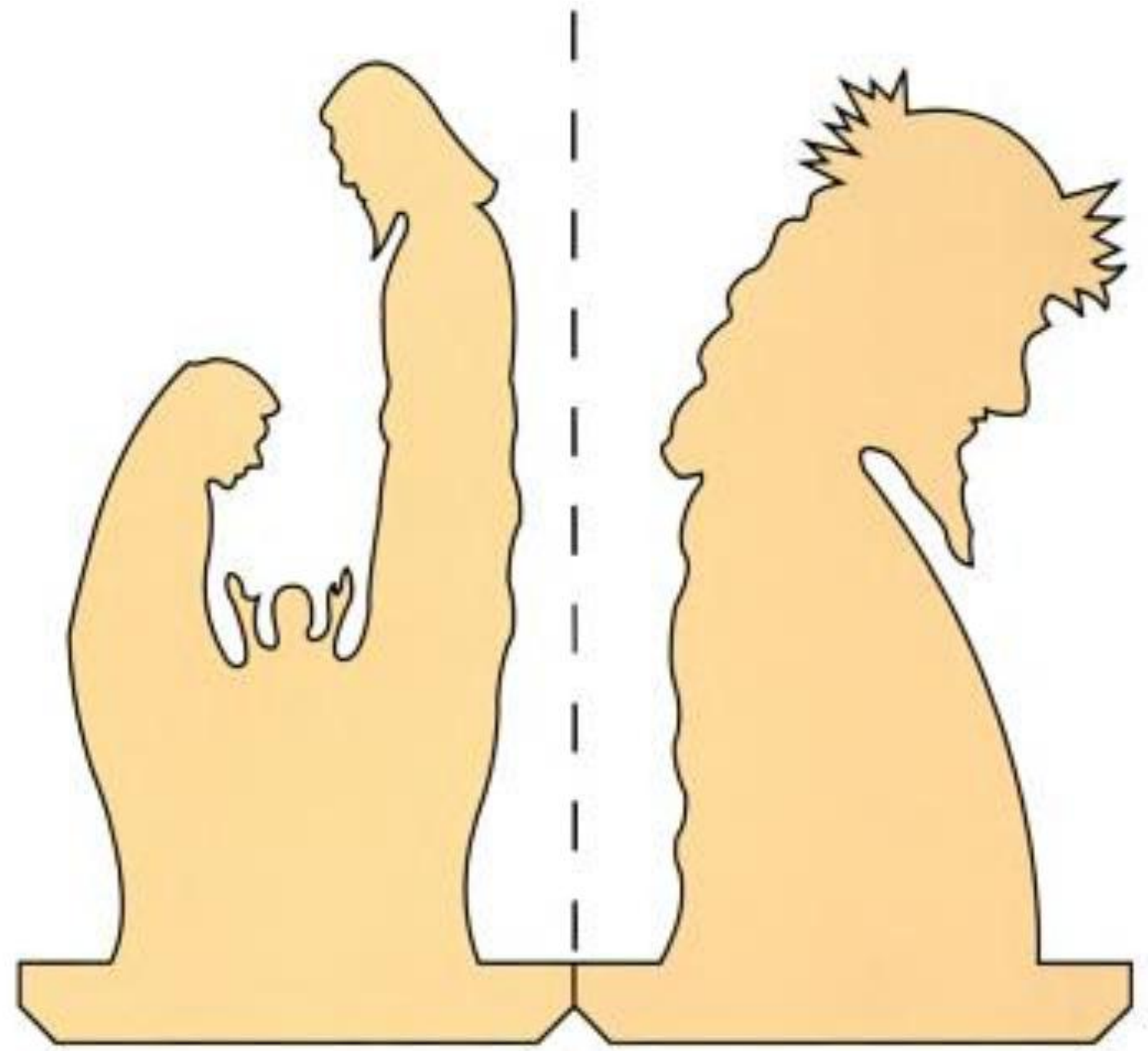
Cross & Jesus



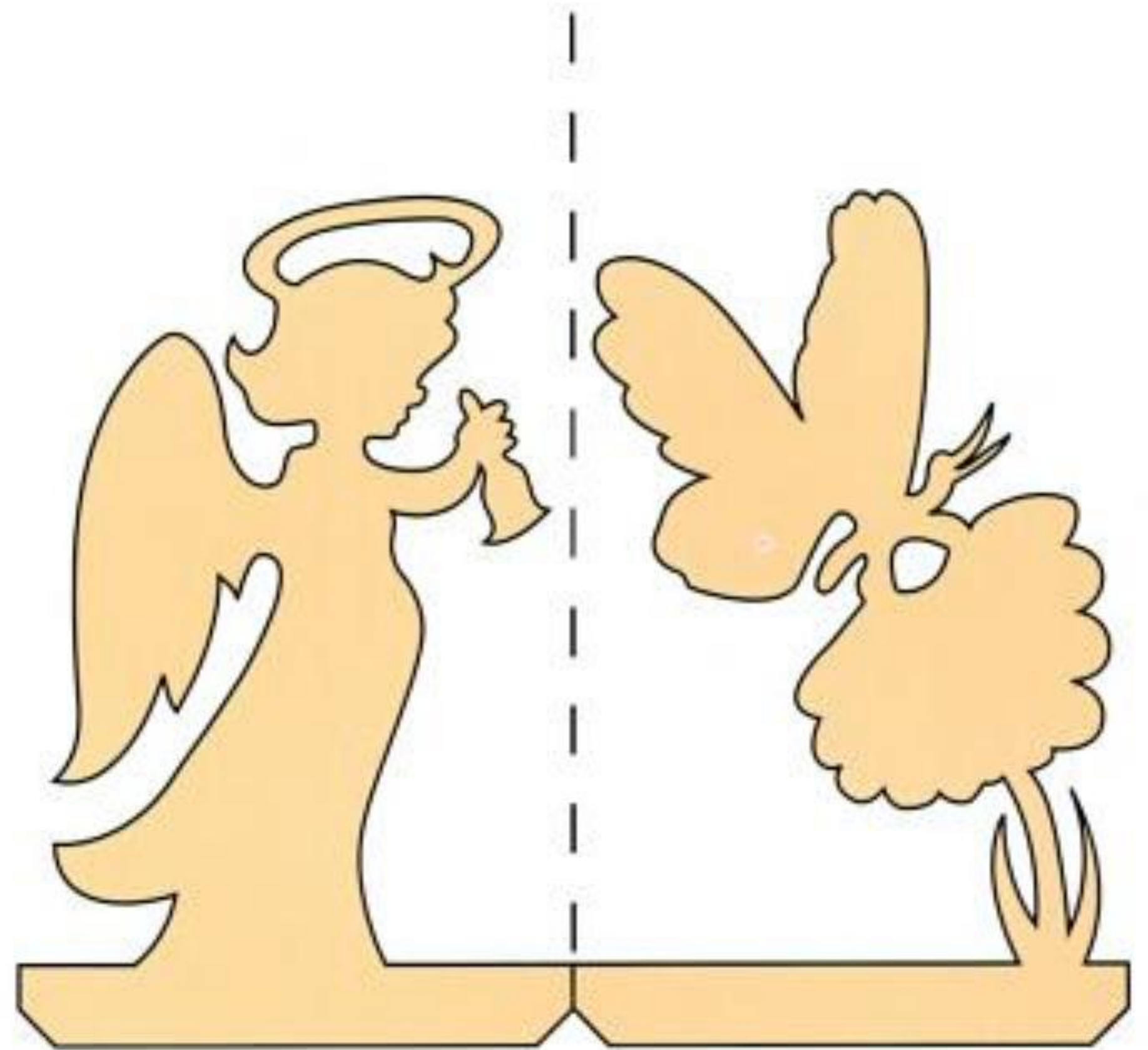
*Note that the shape of the cross may change depending on how the sleeves are cut on Christ's robe.

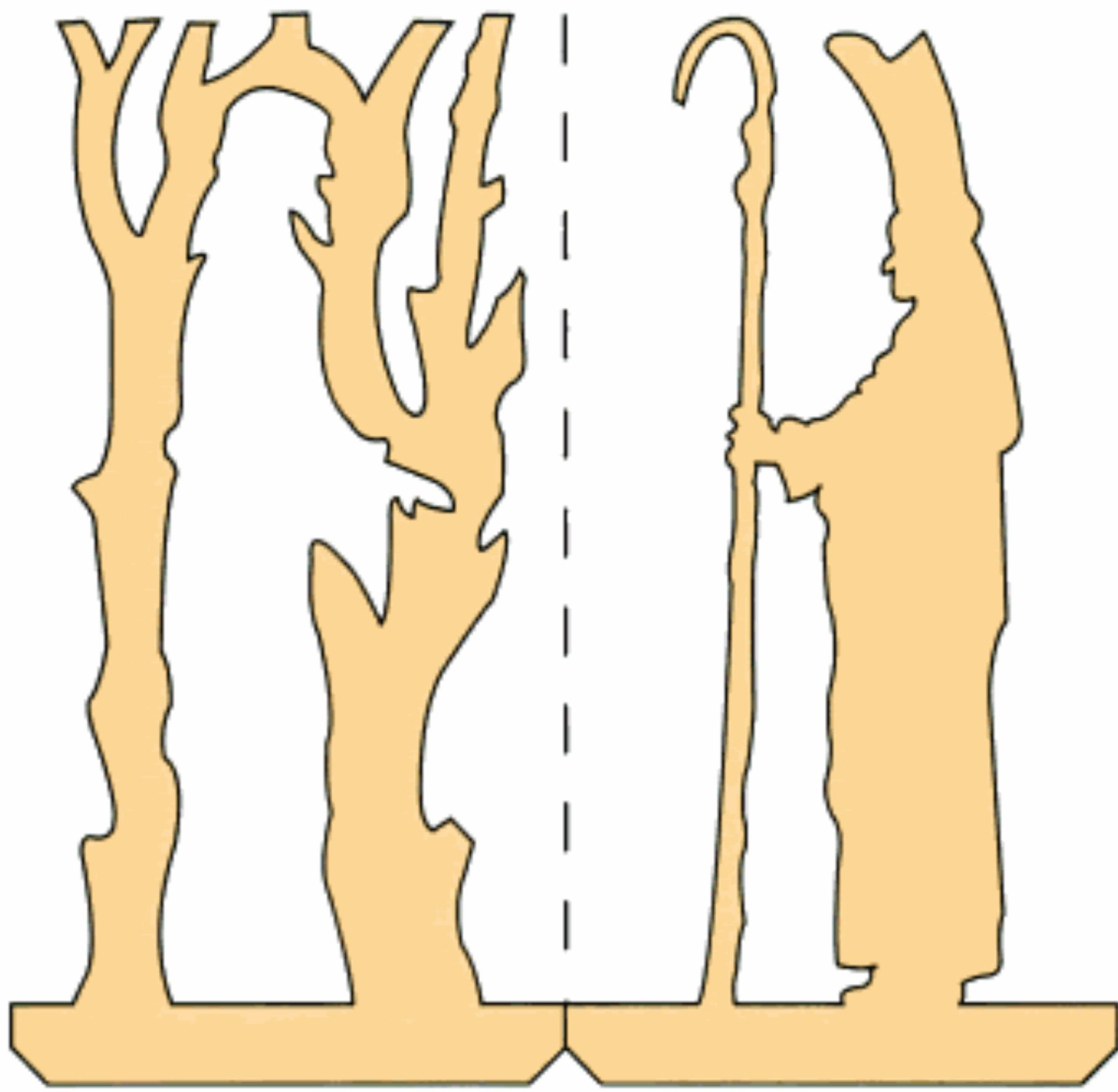


Jesus & Nativity

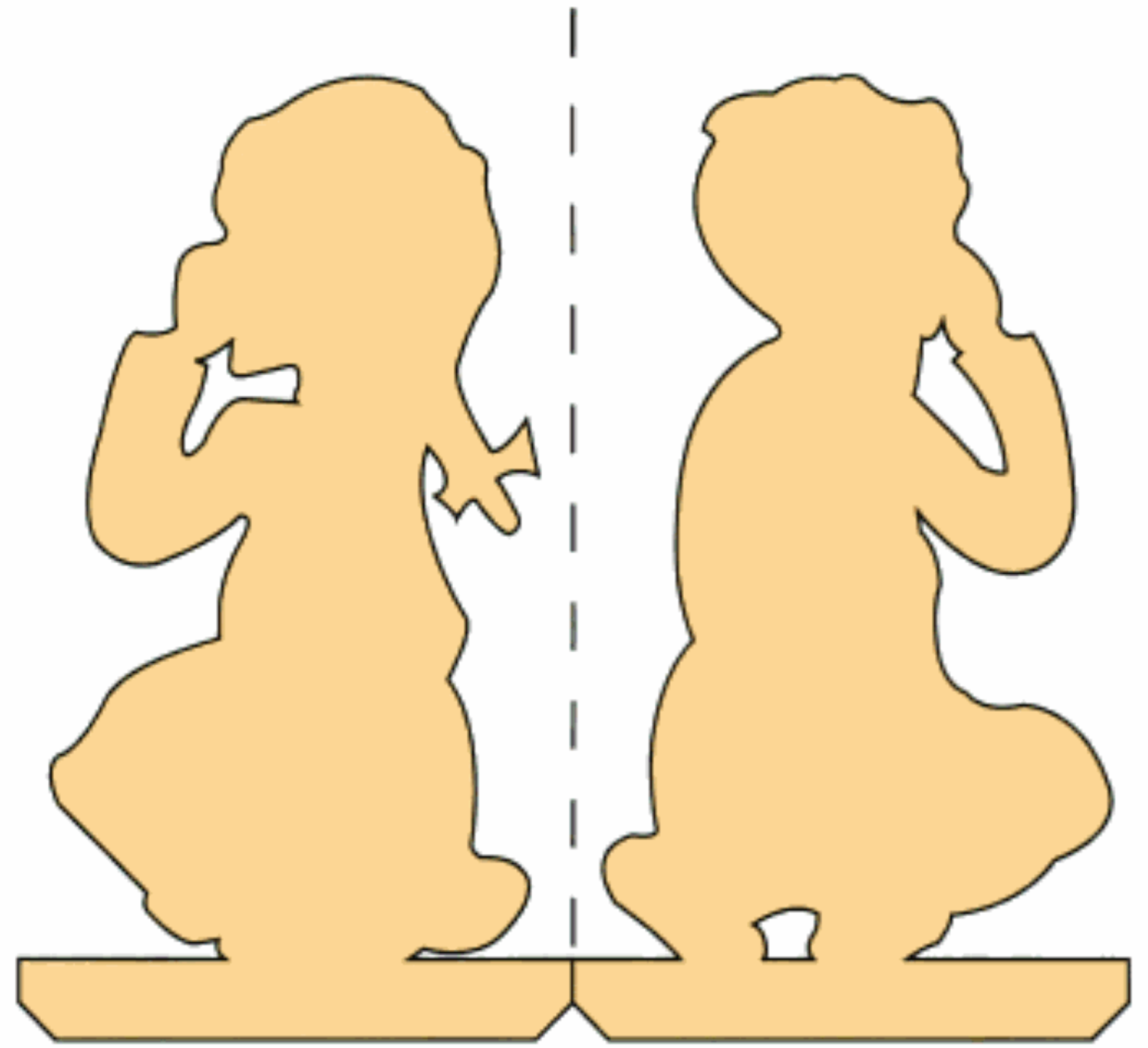


Angel & Butterfly

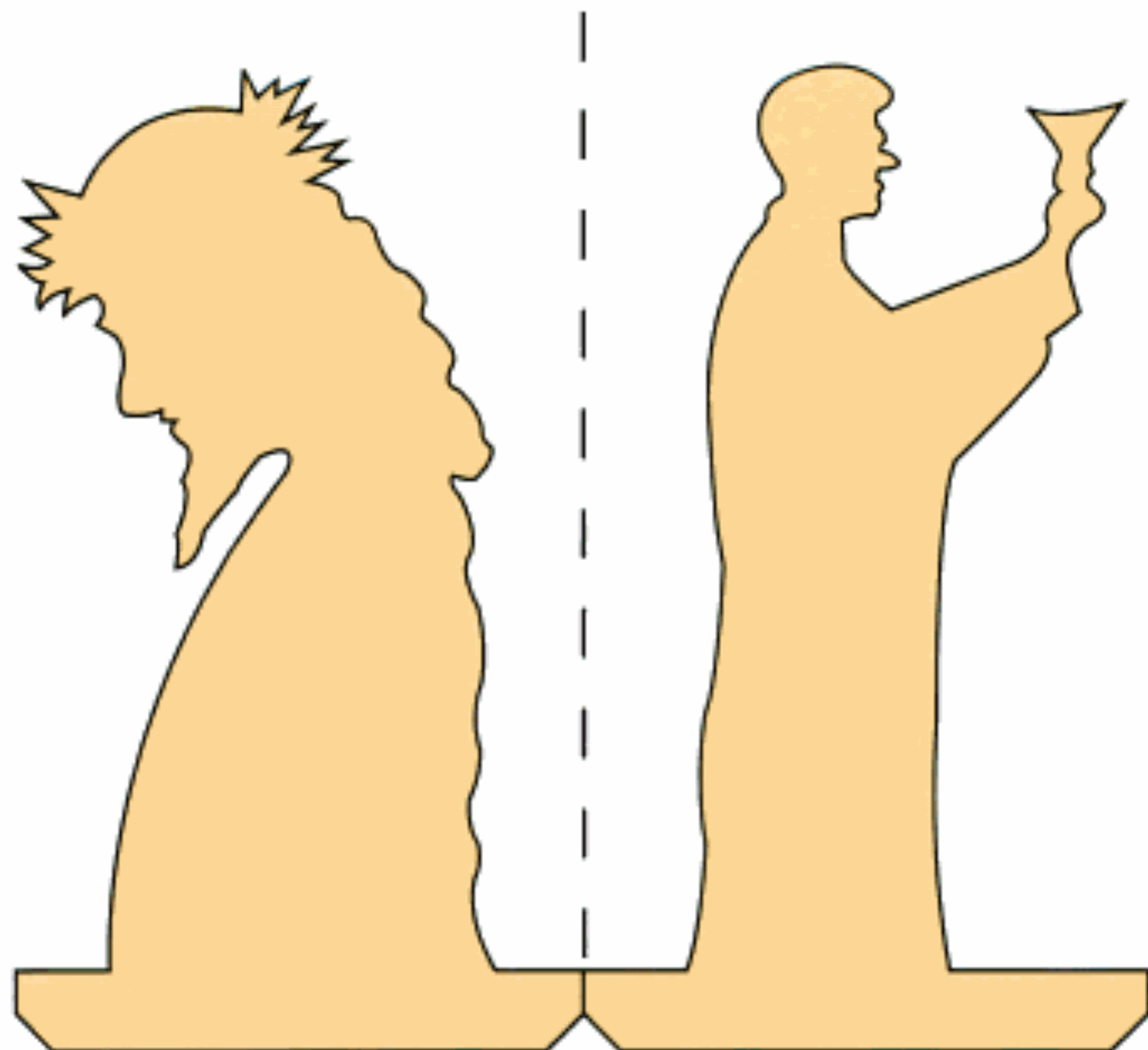




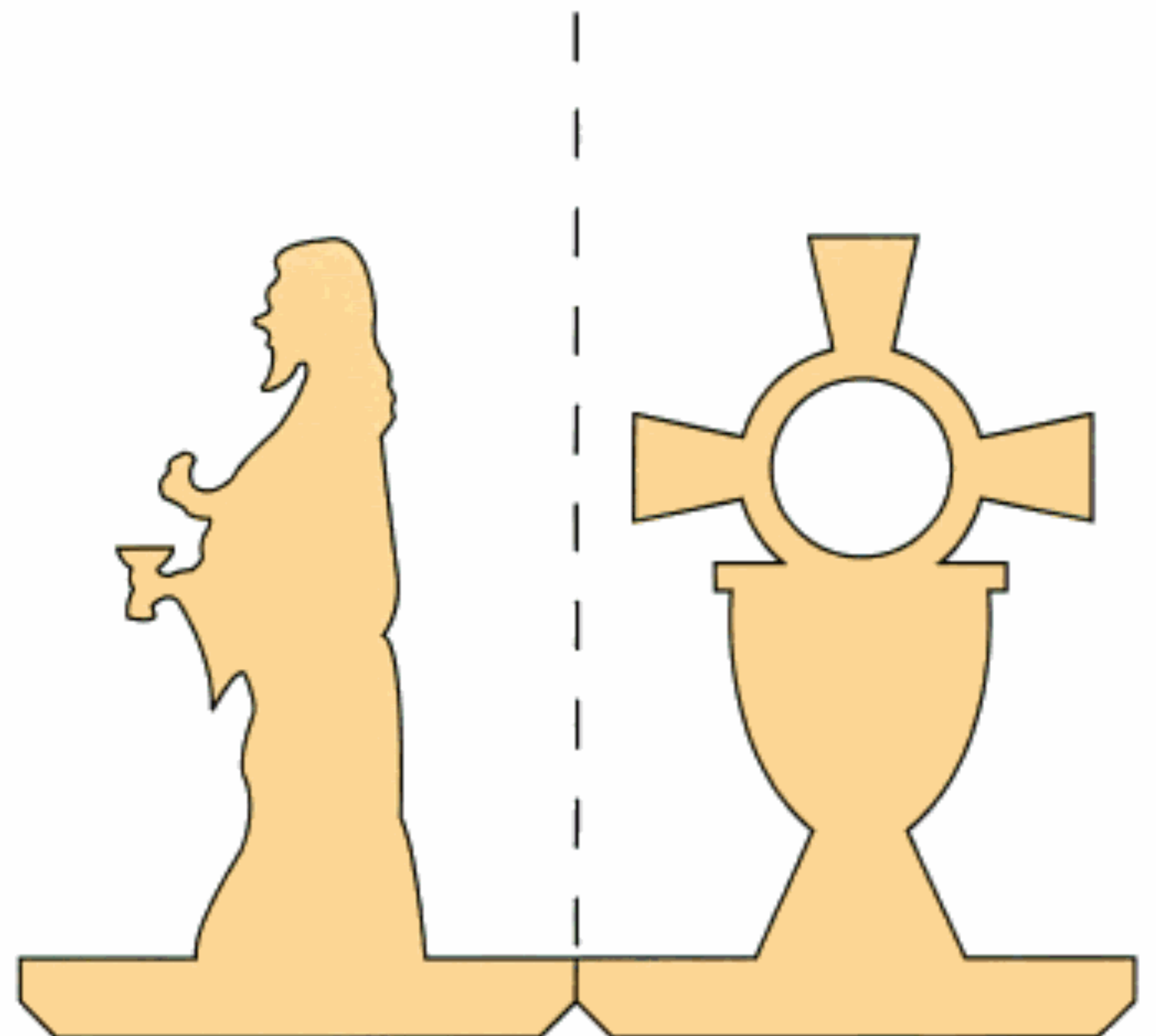
Jesus in Tree & Wiseman



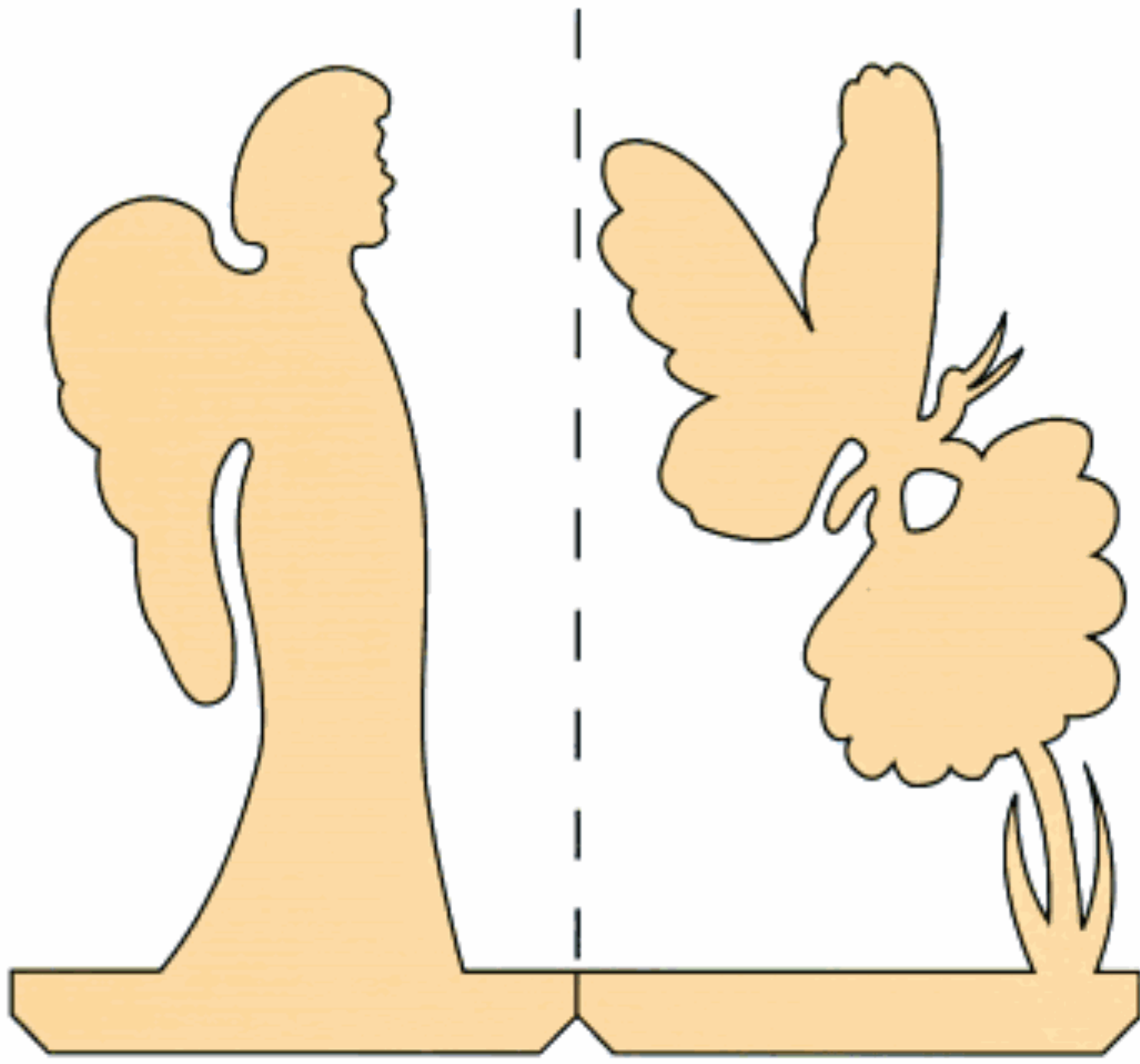
Girl & Boy Praying



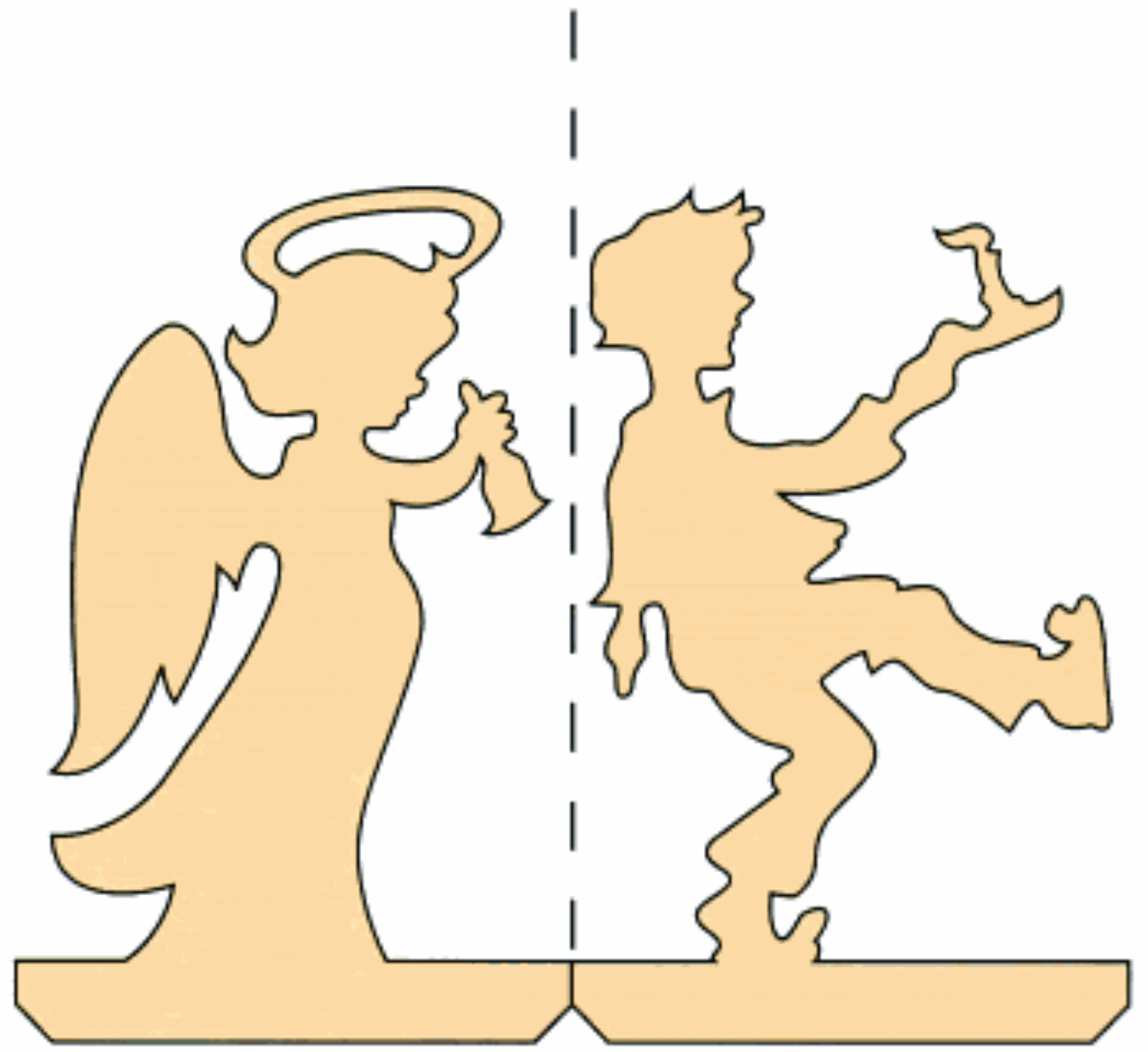
Head of Christ & Pastor



Jesus & Cup of Life

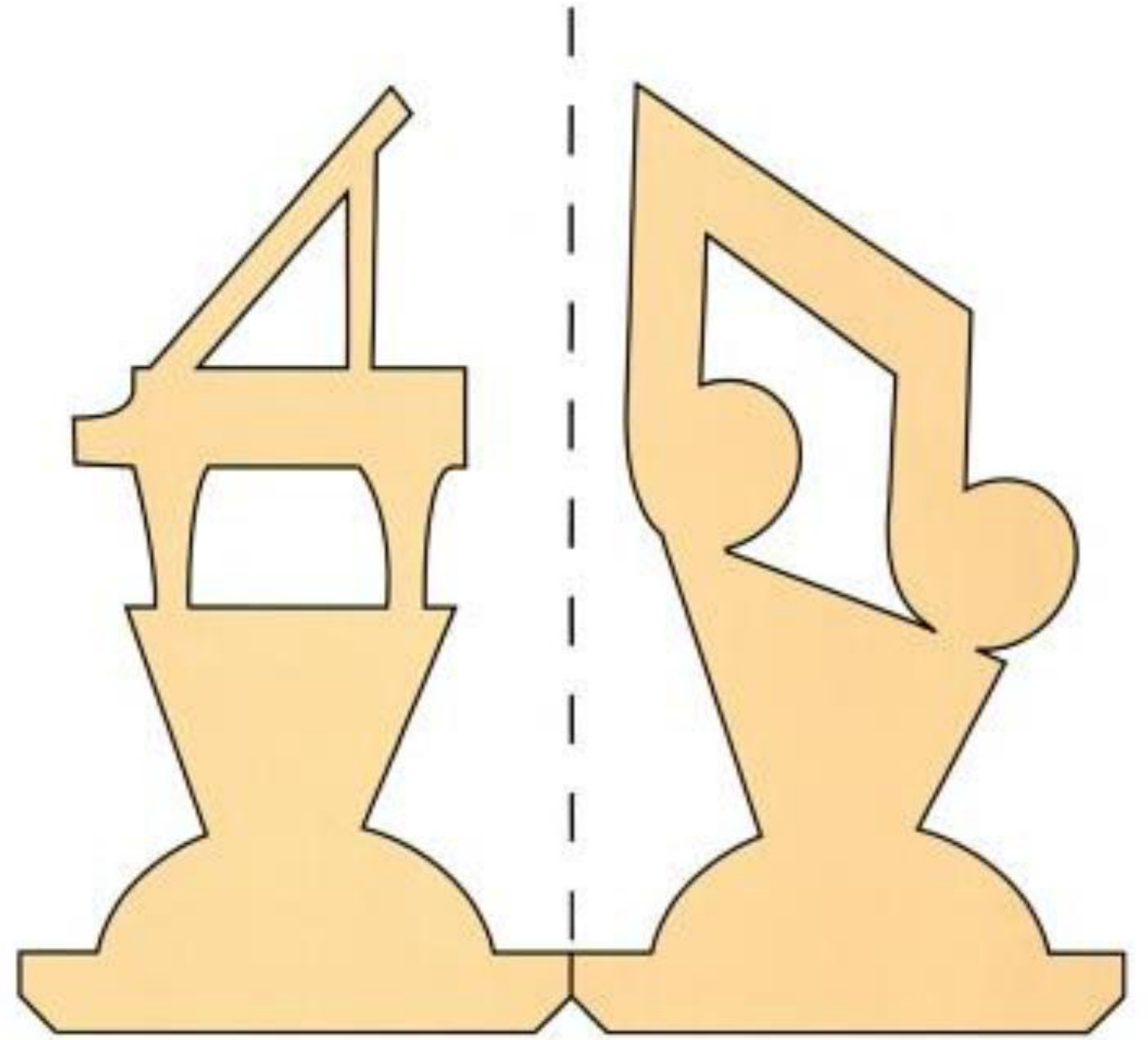


Angel & Butterfly

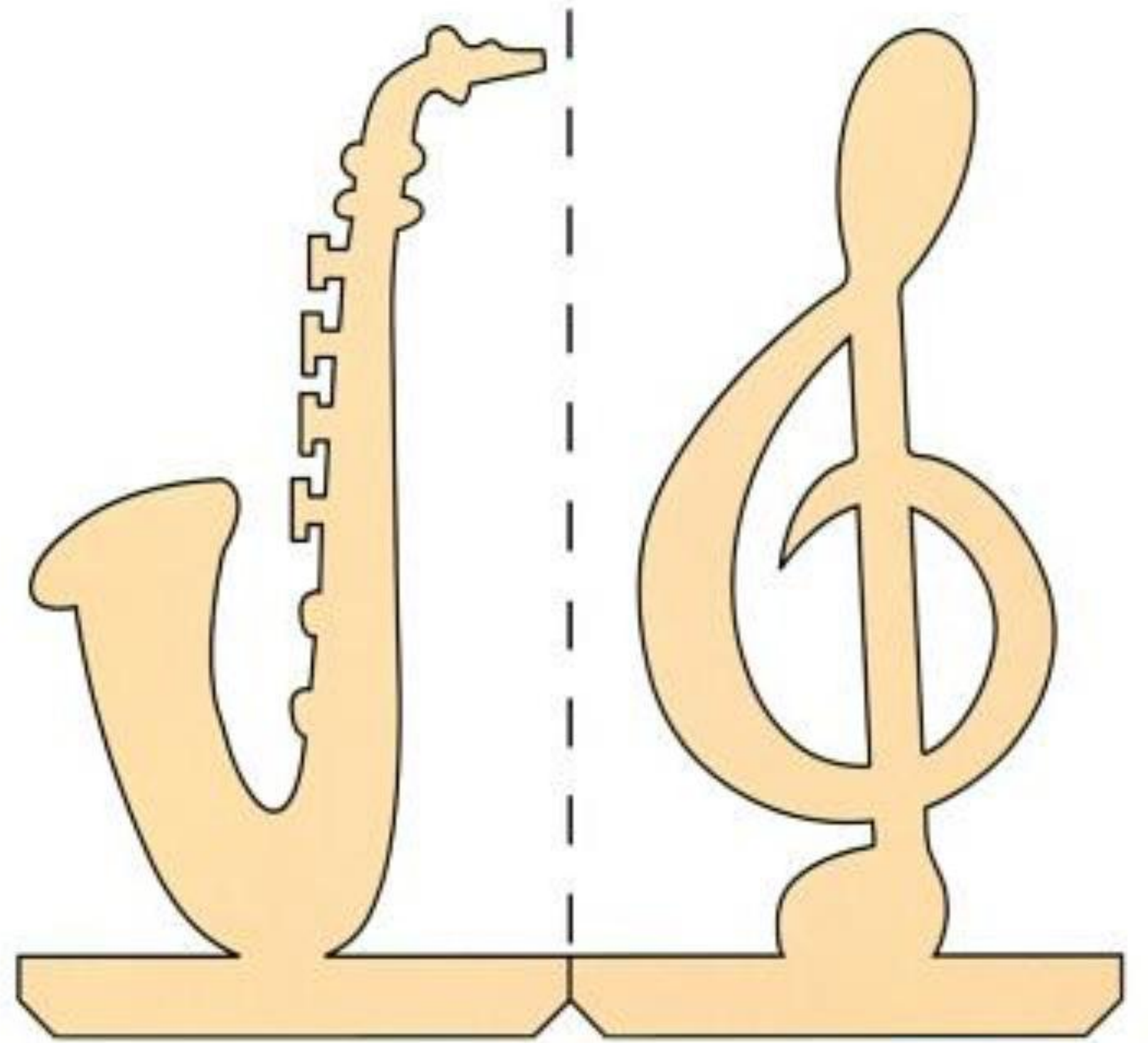


Angel & Boy with Candle

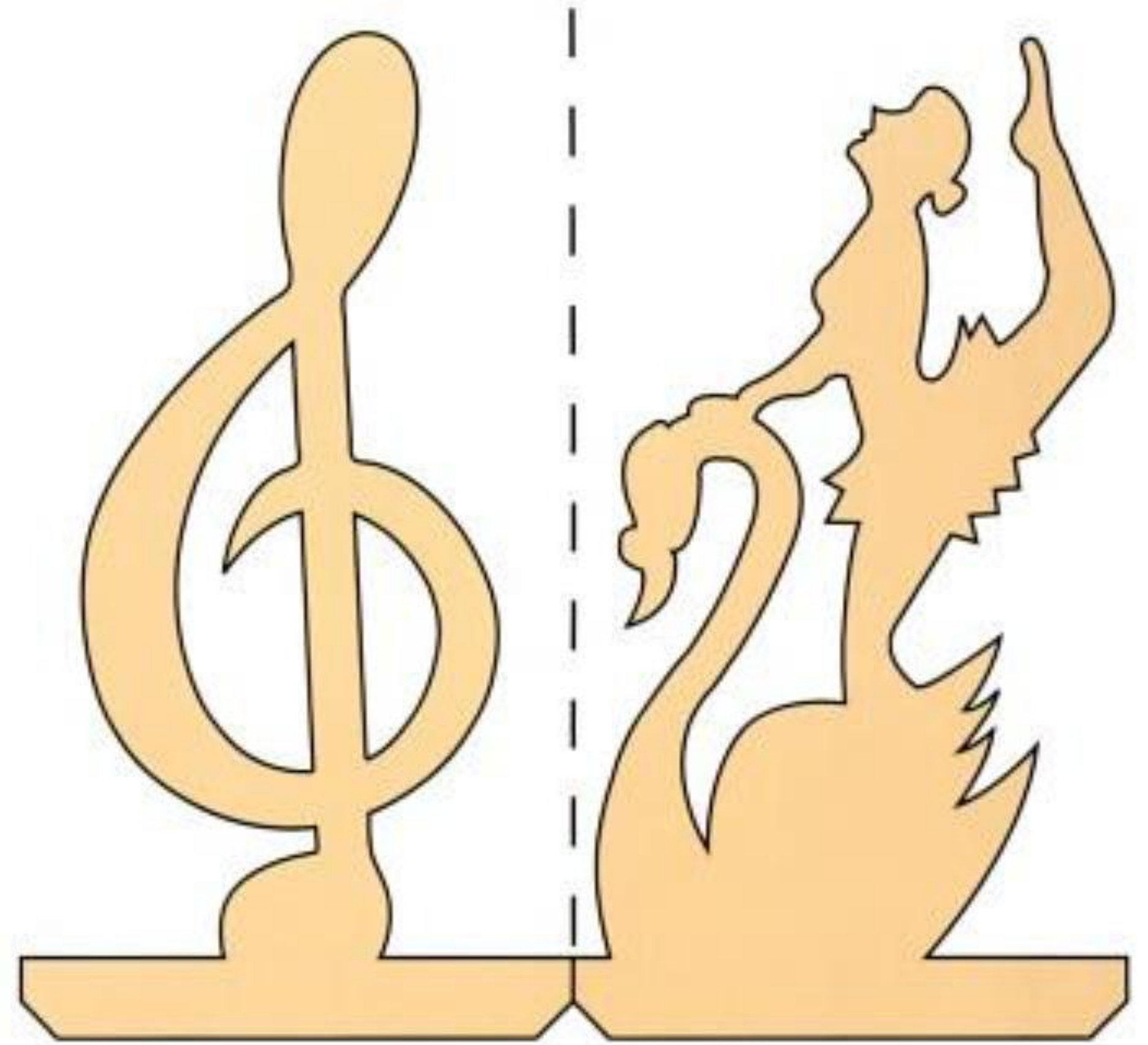
Music Notes & Piano

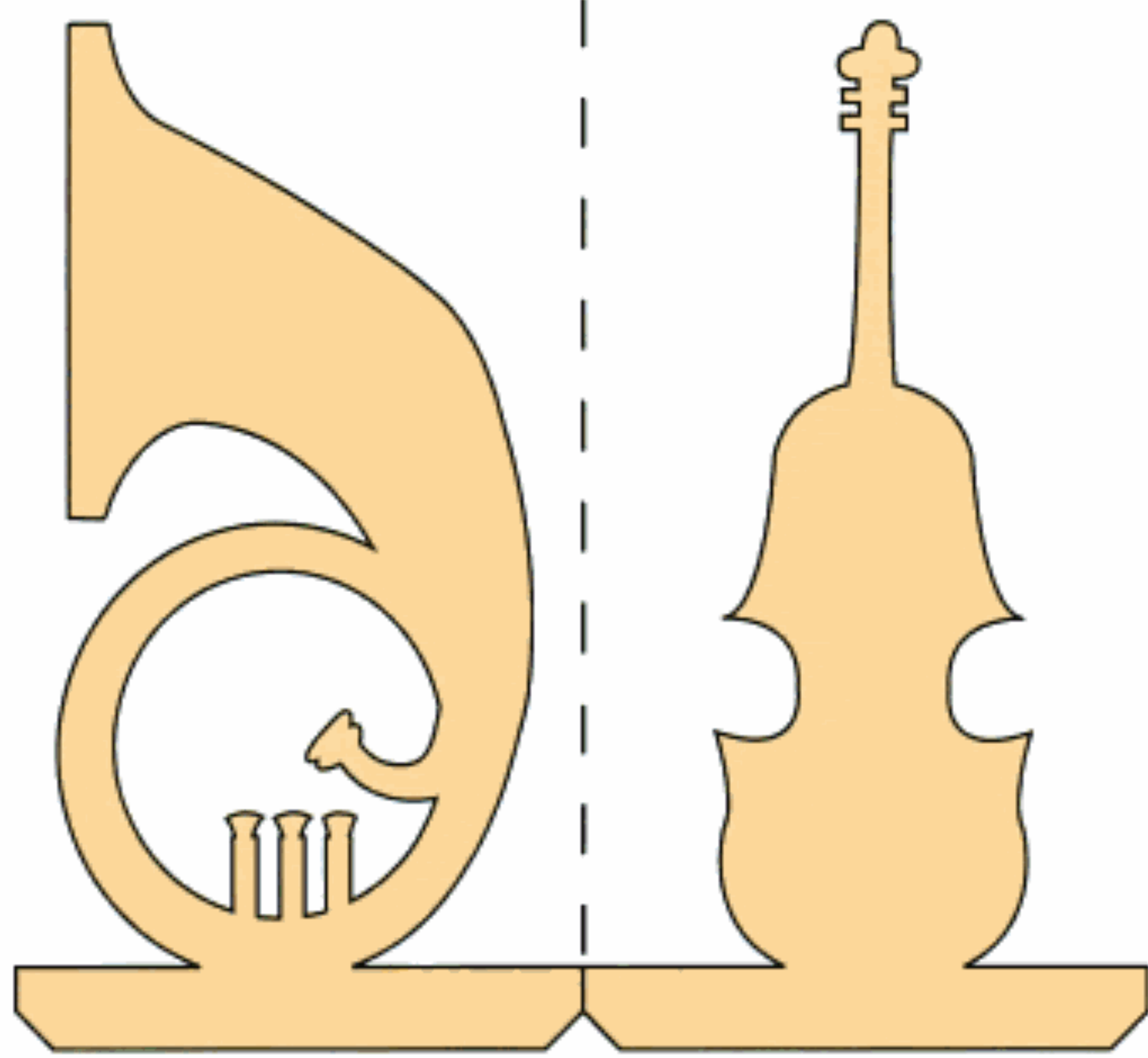


Sax & Clef

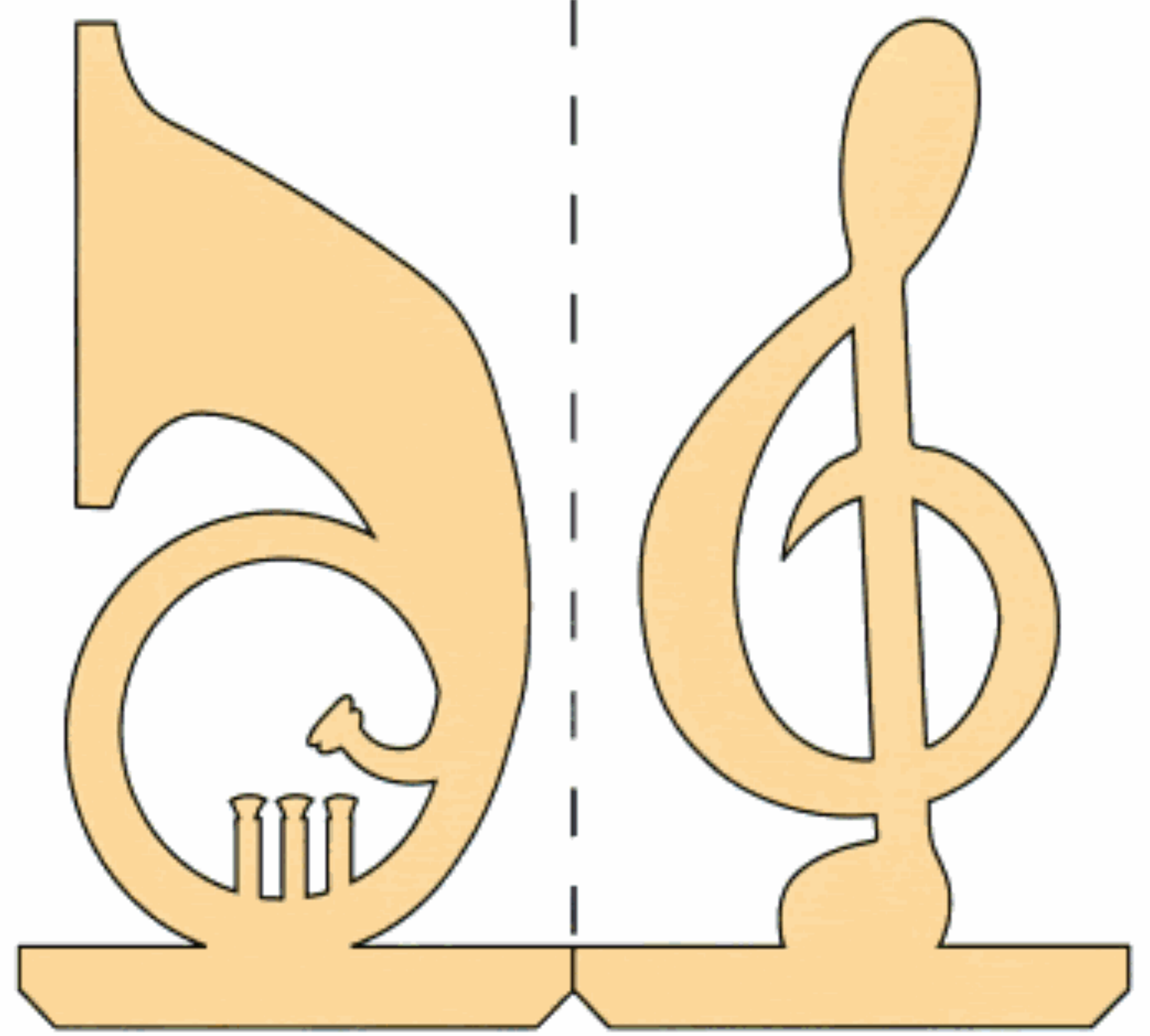


Clef & Ballerina on Swan

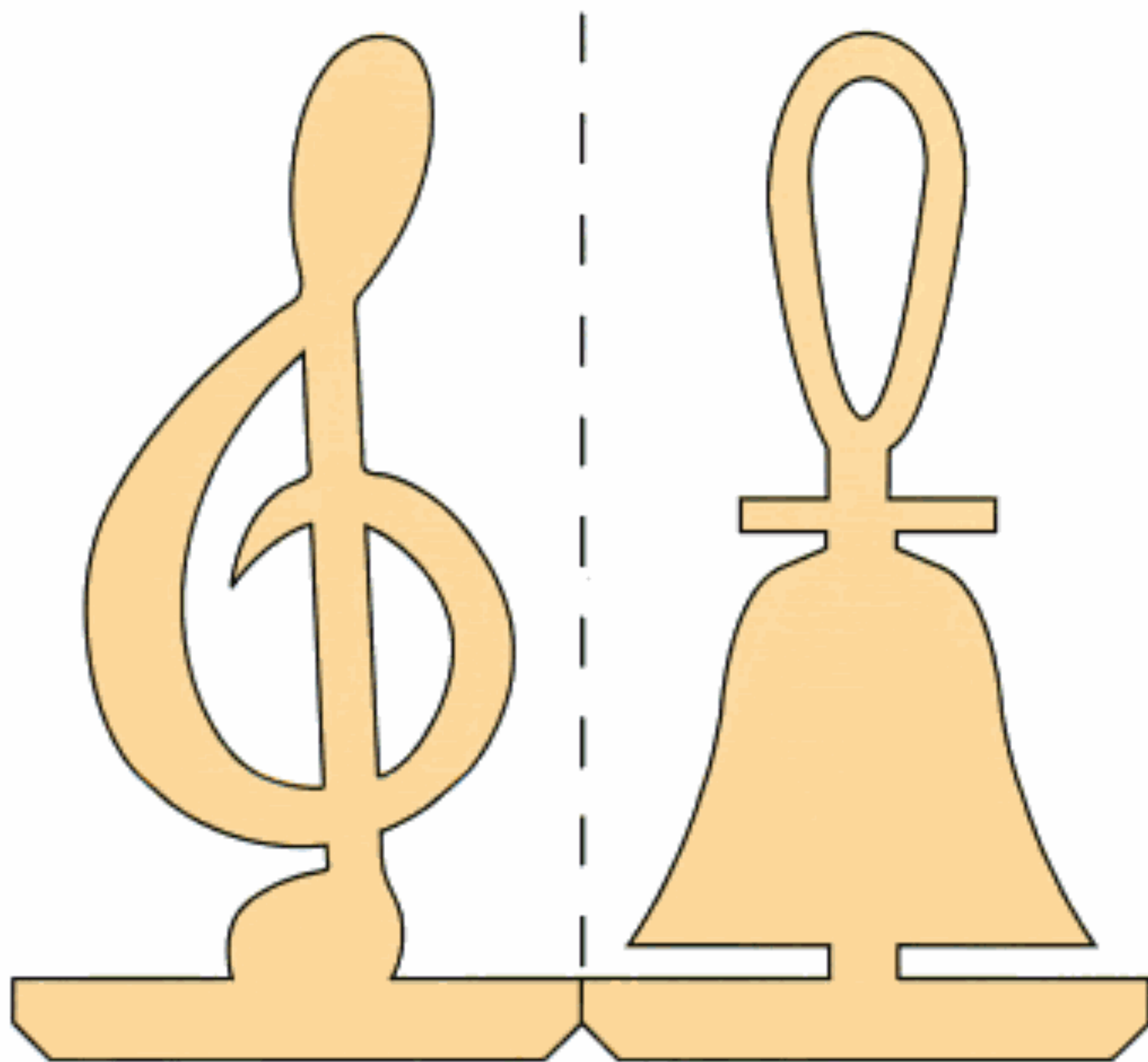




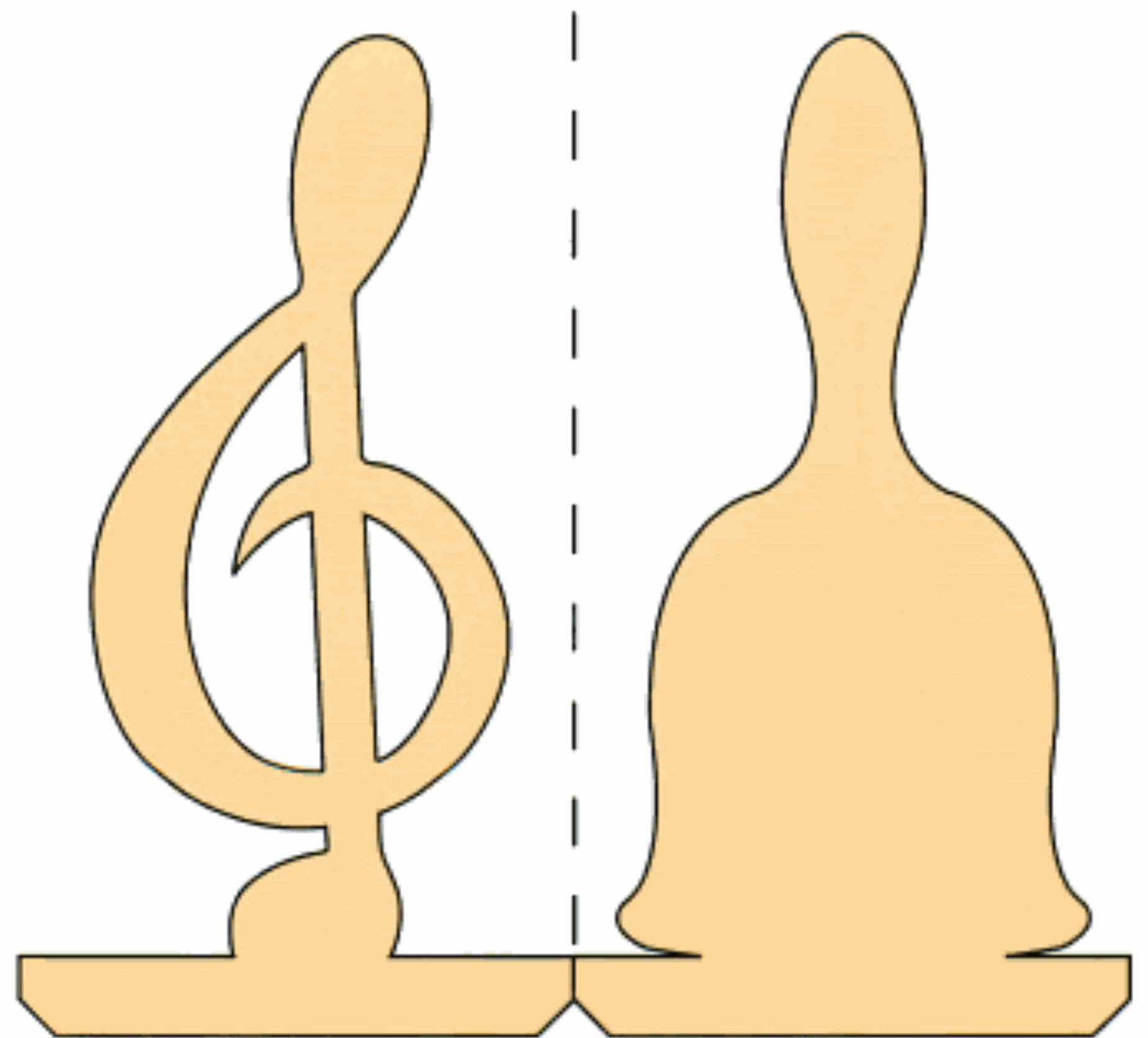
Tuba & Cello



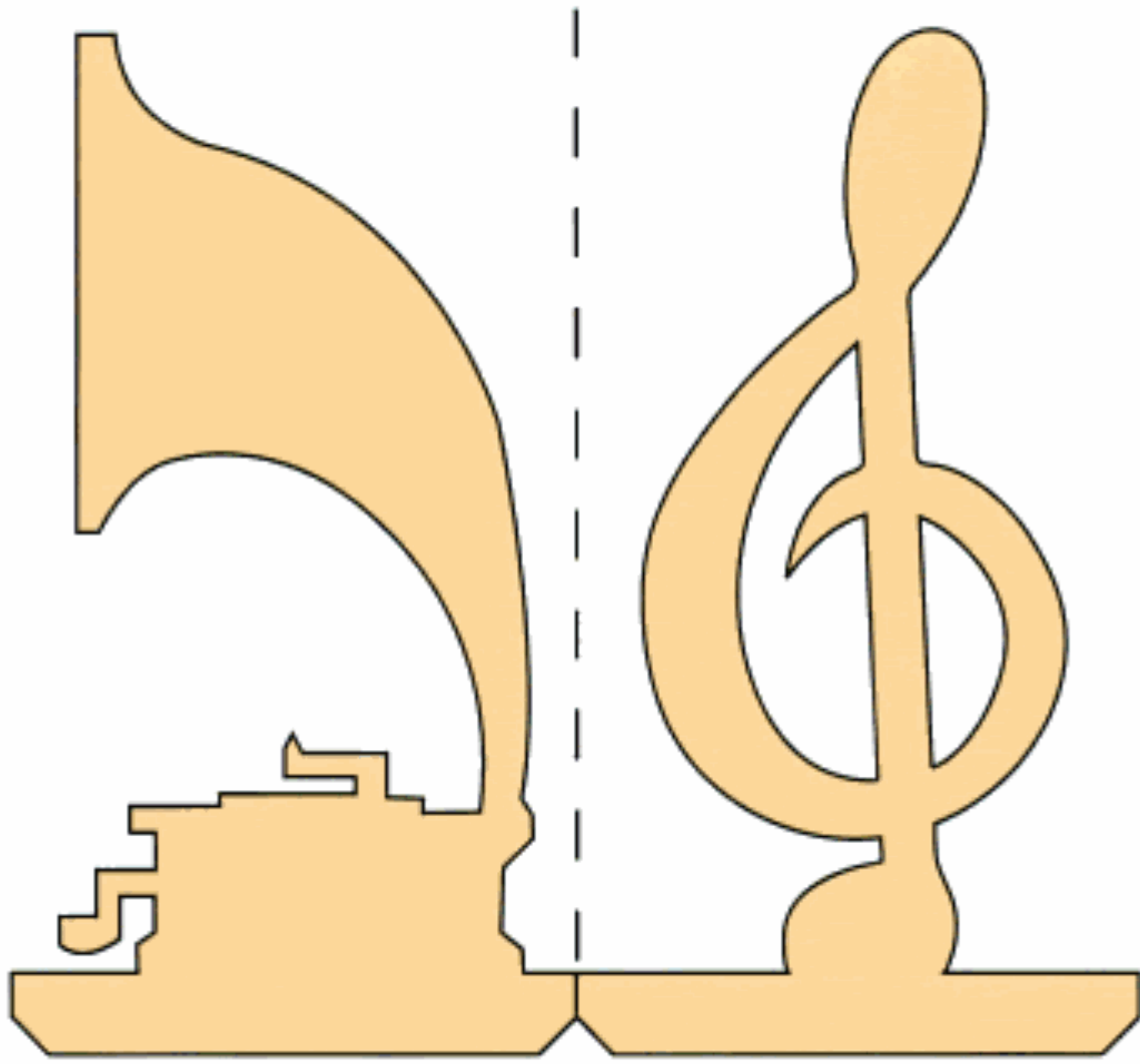
Tuba & Clef



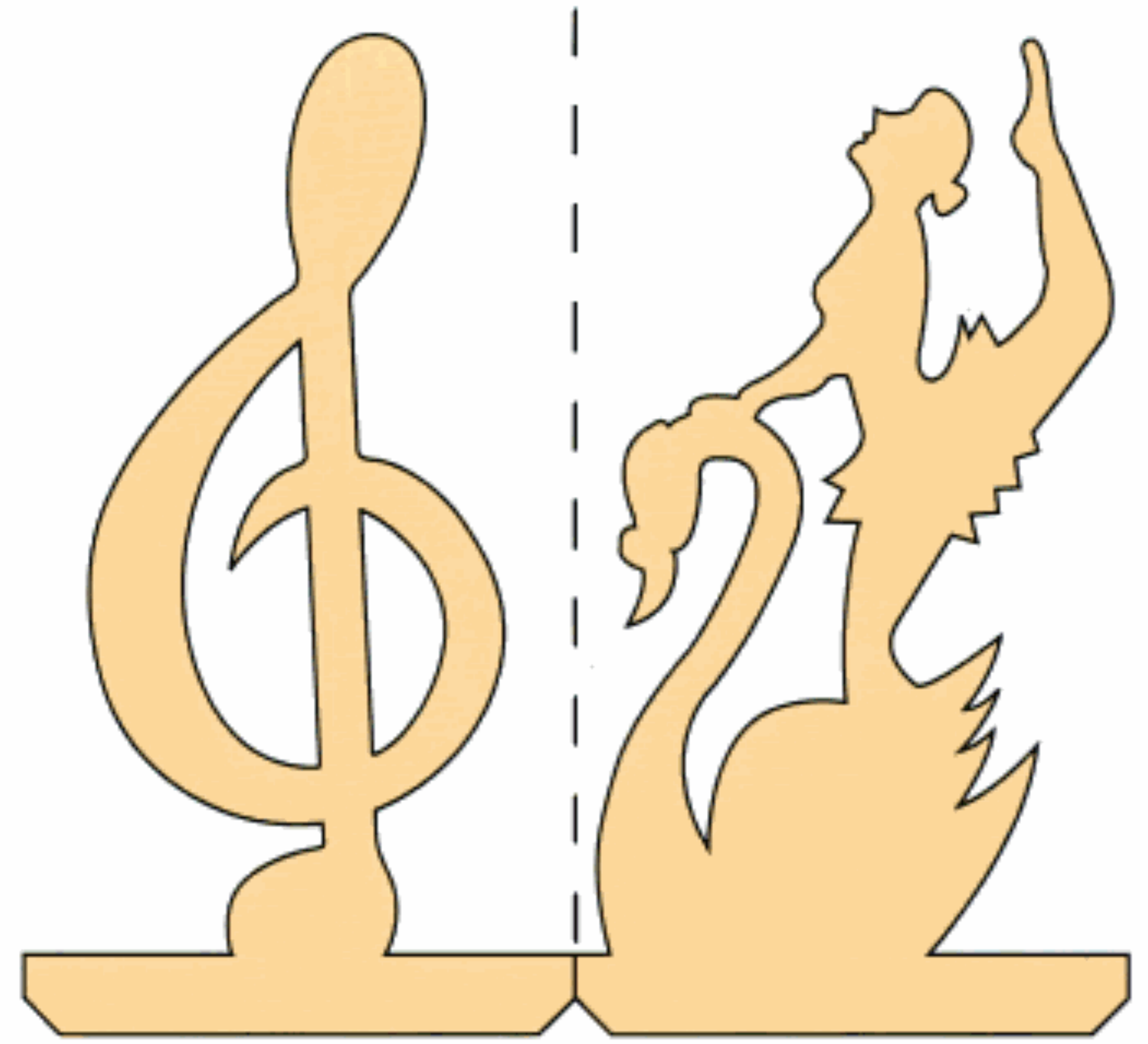
Clef & Hand Bell



Clef & Bell

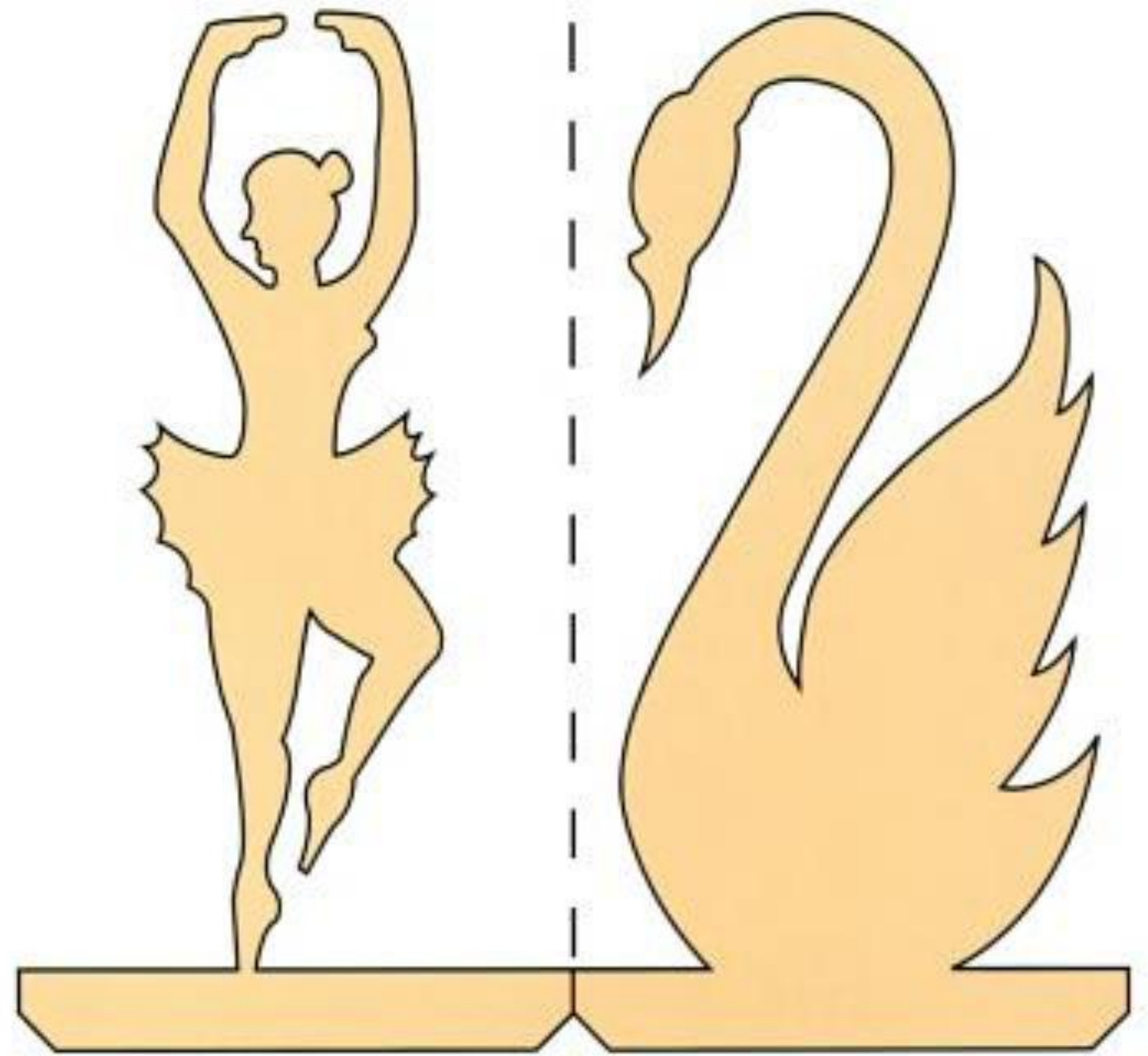


Victrola™ & Clef

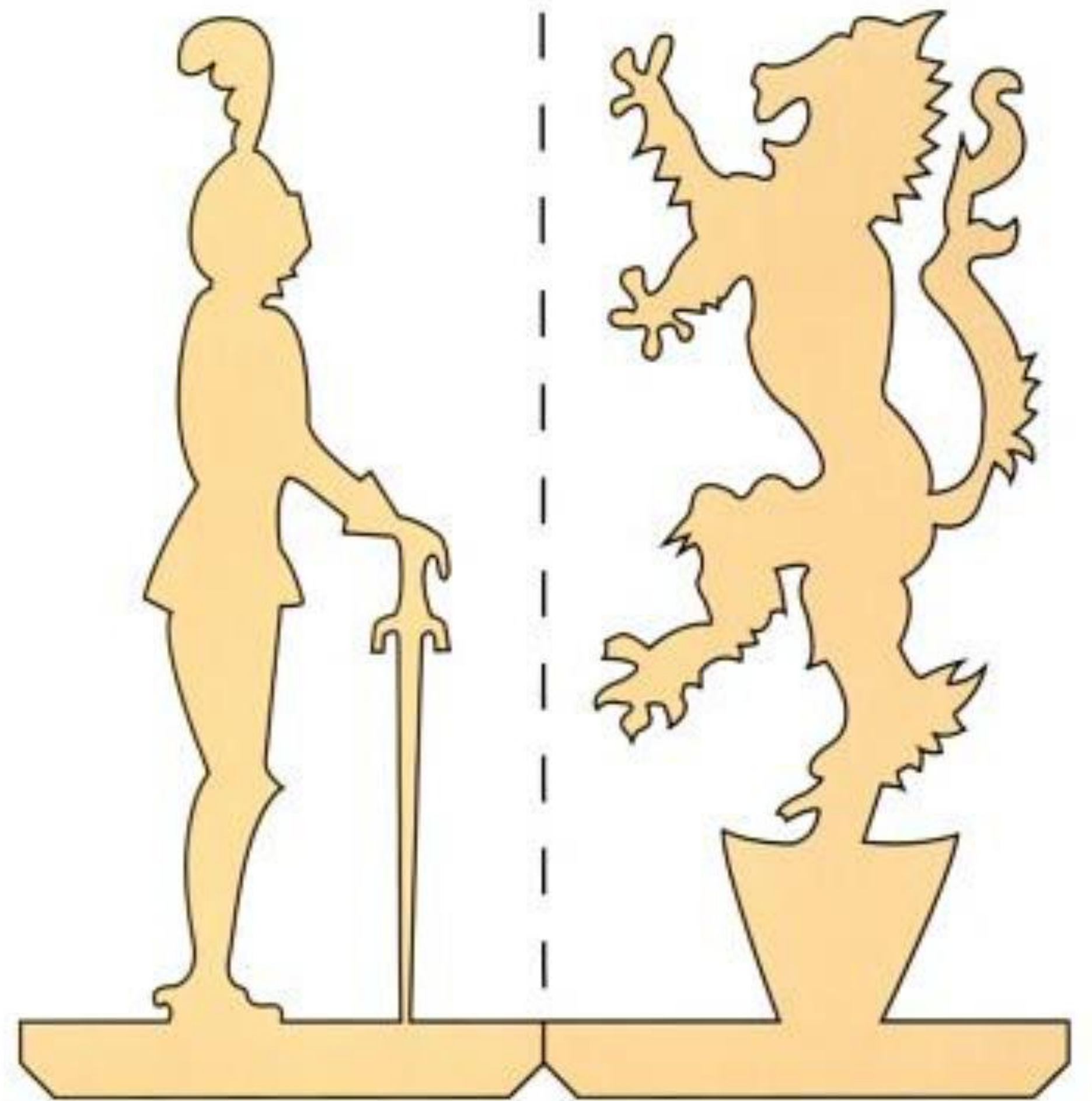


Clef & Ballerina on Swan

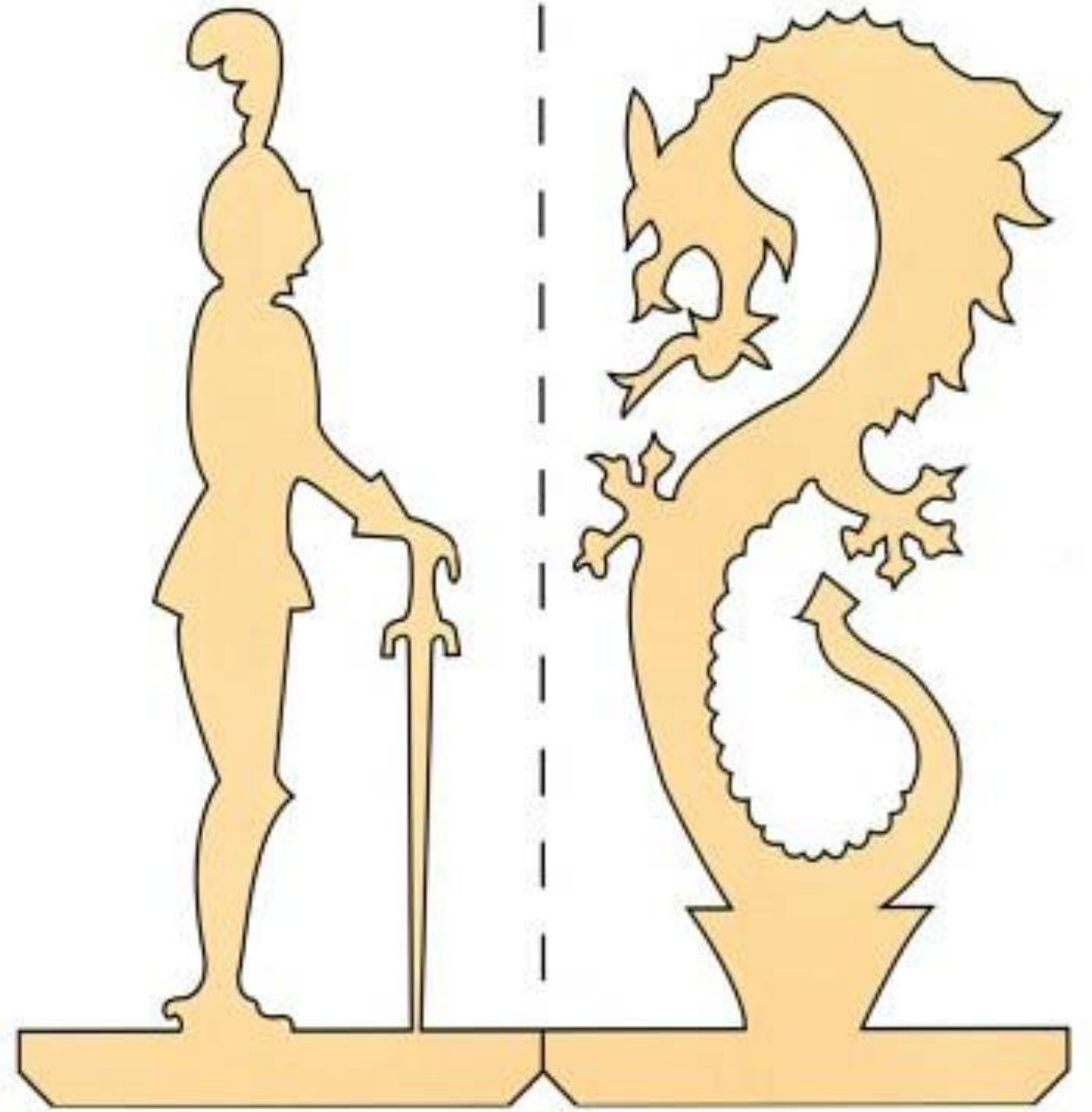
Ballerina & Swan

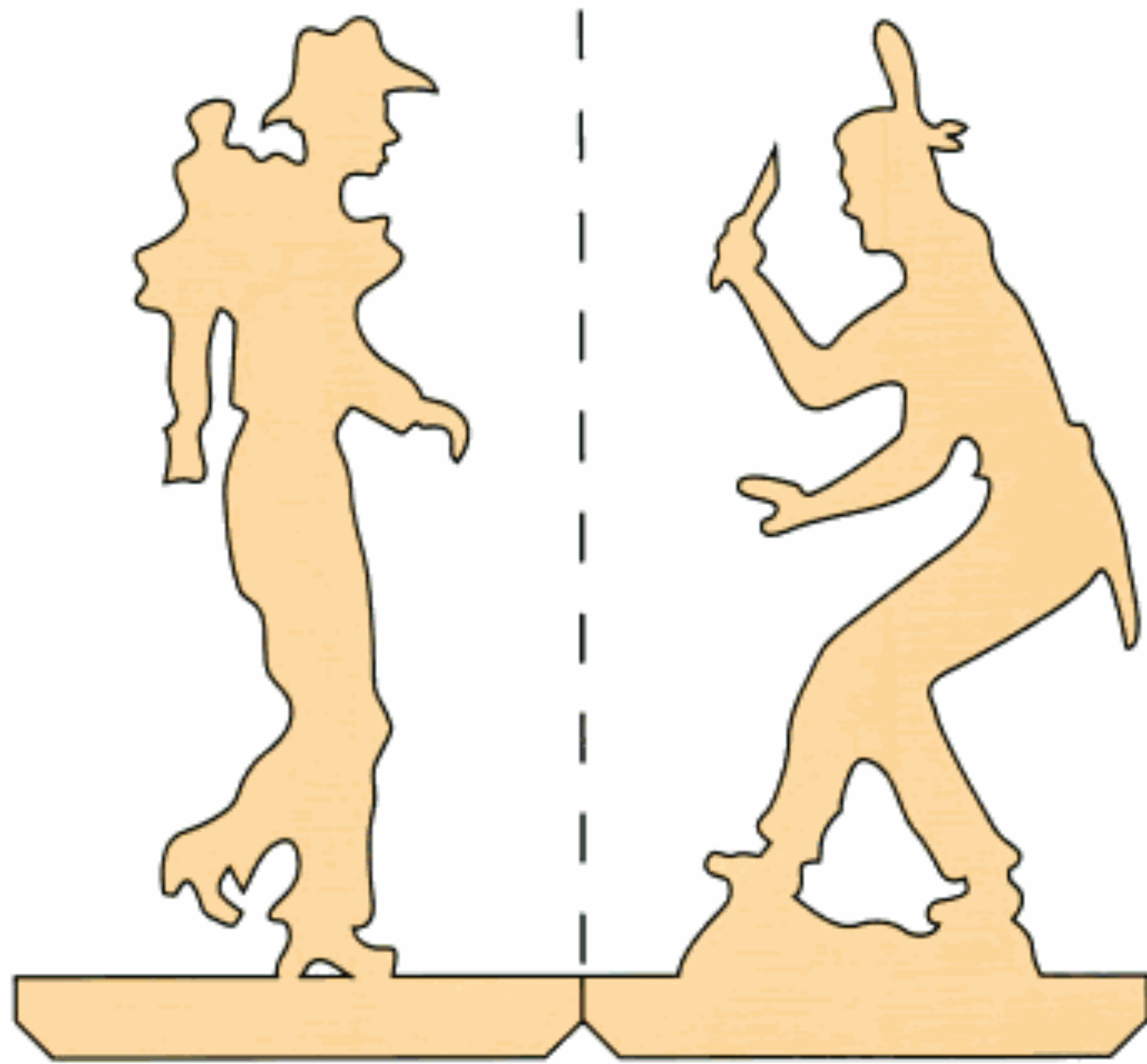


Griffin & Knight

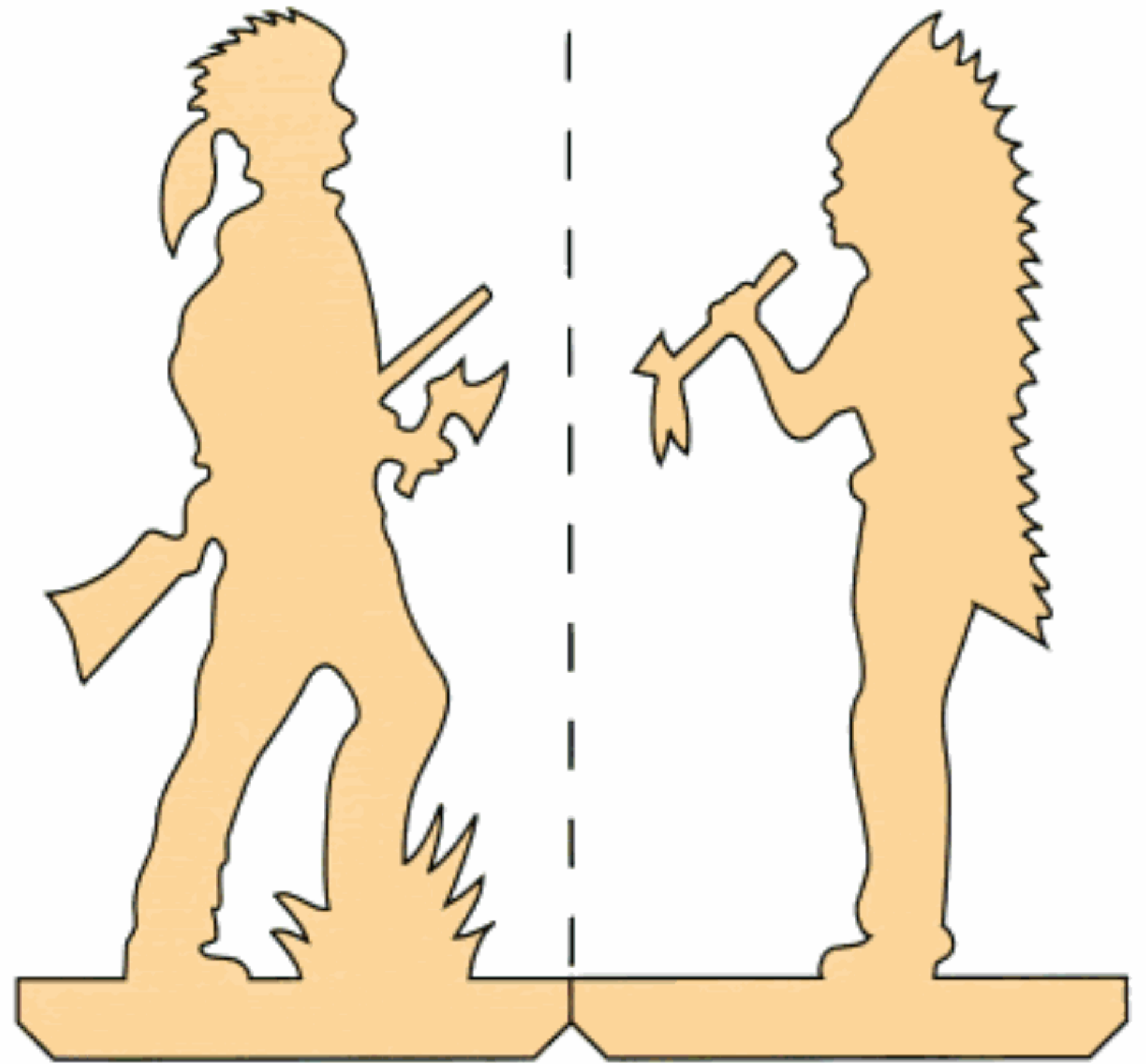


Knight & Dragon

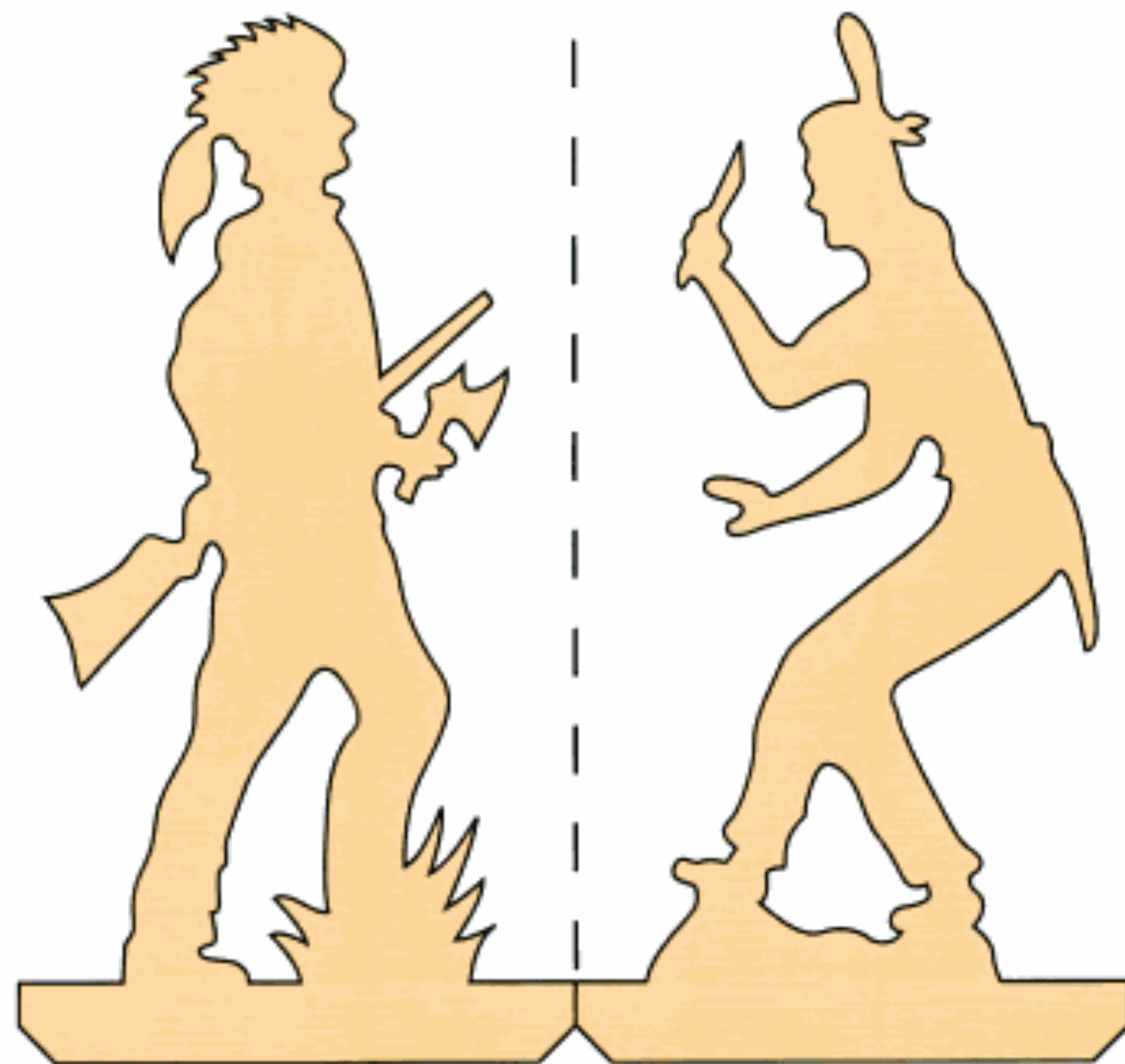




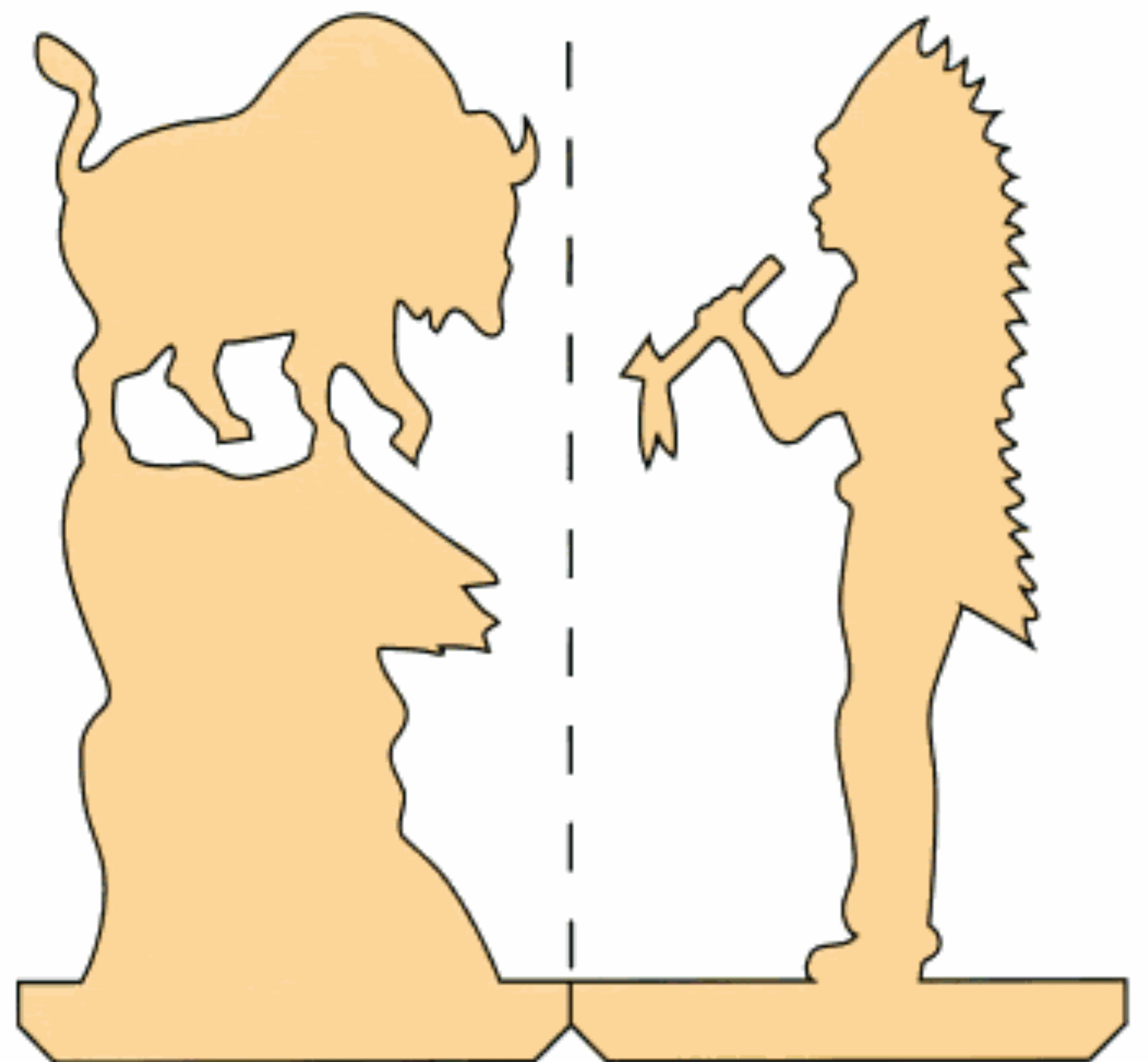
Cowboy & Indian Brave



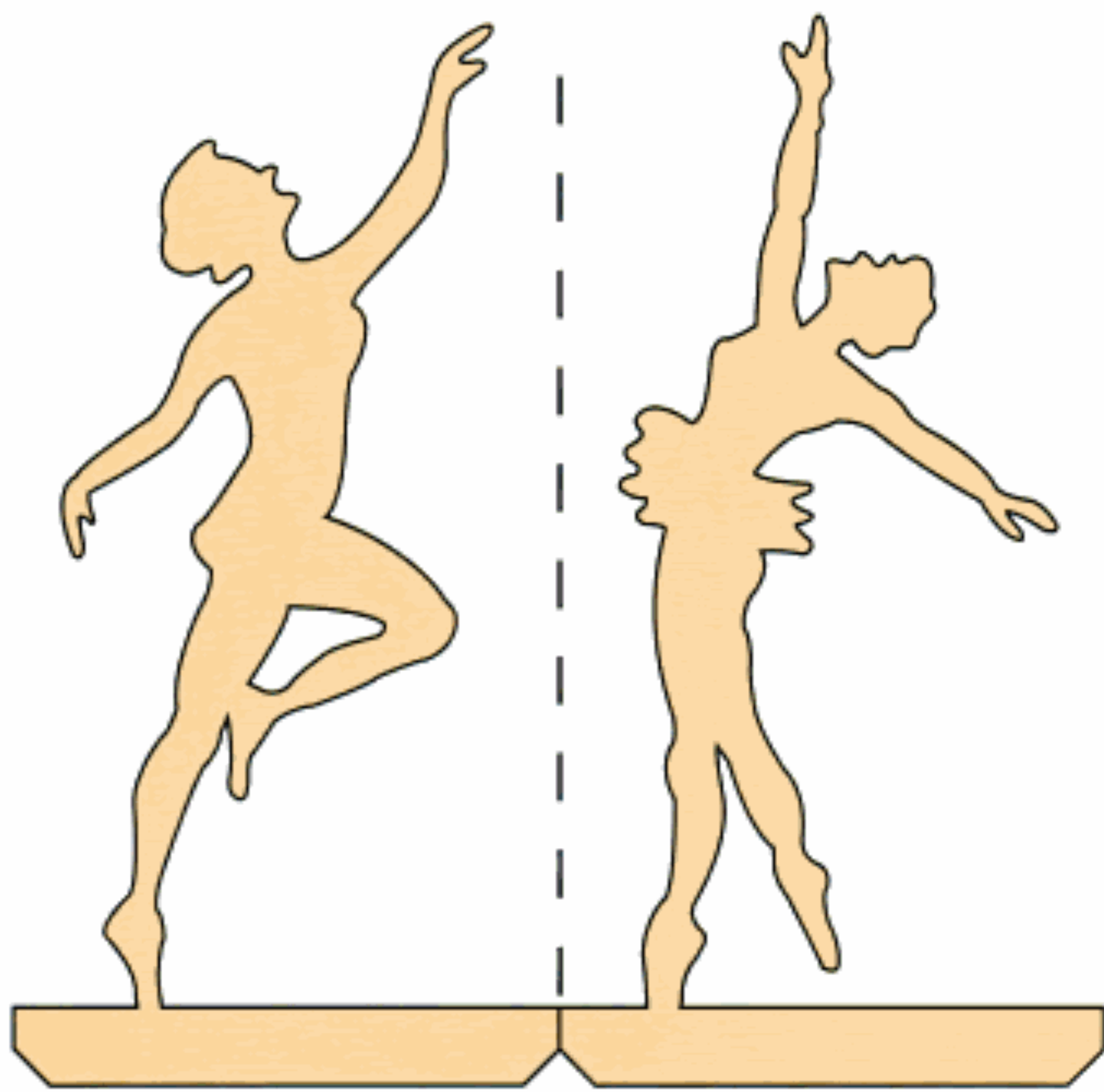
Boone & Indian Chief



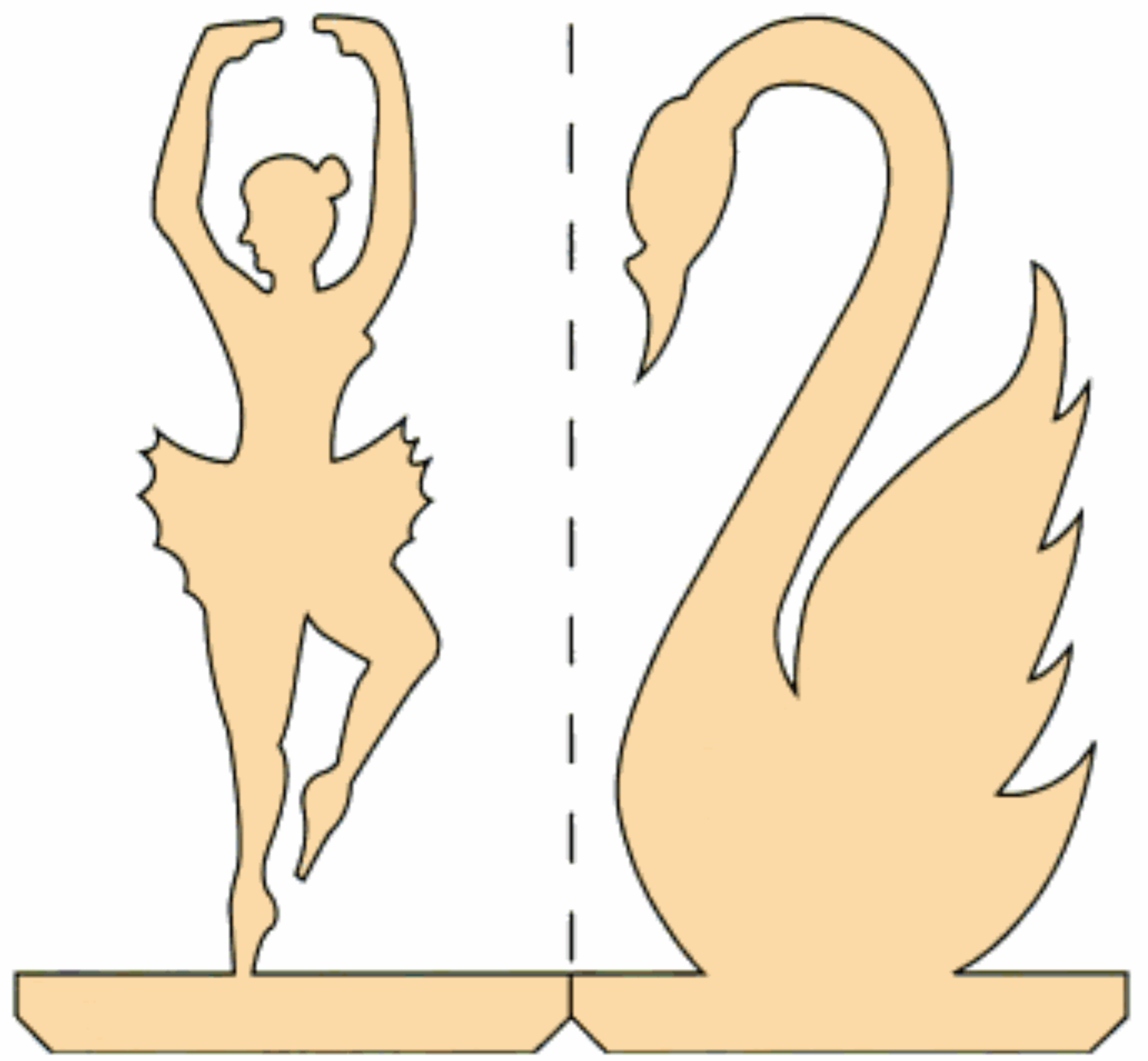
Boone & Indian Brave



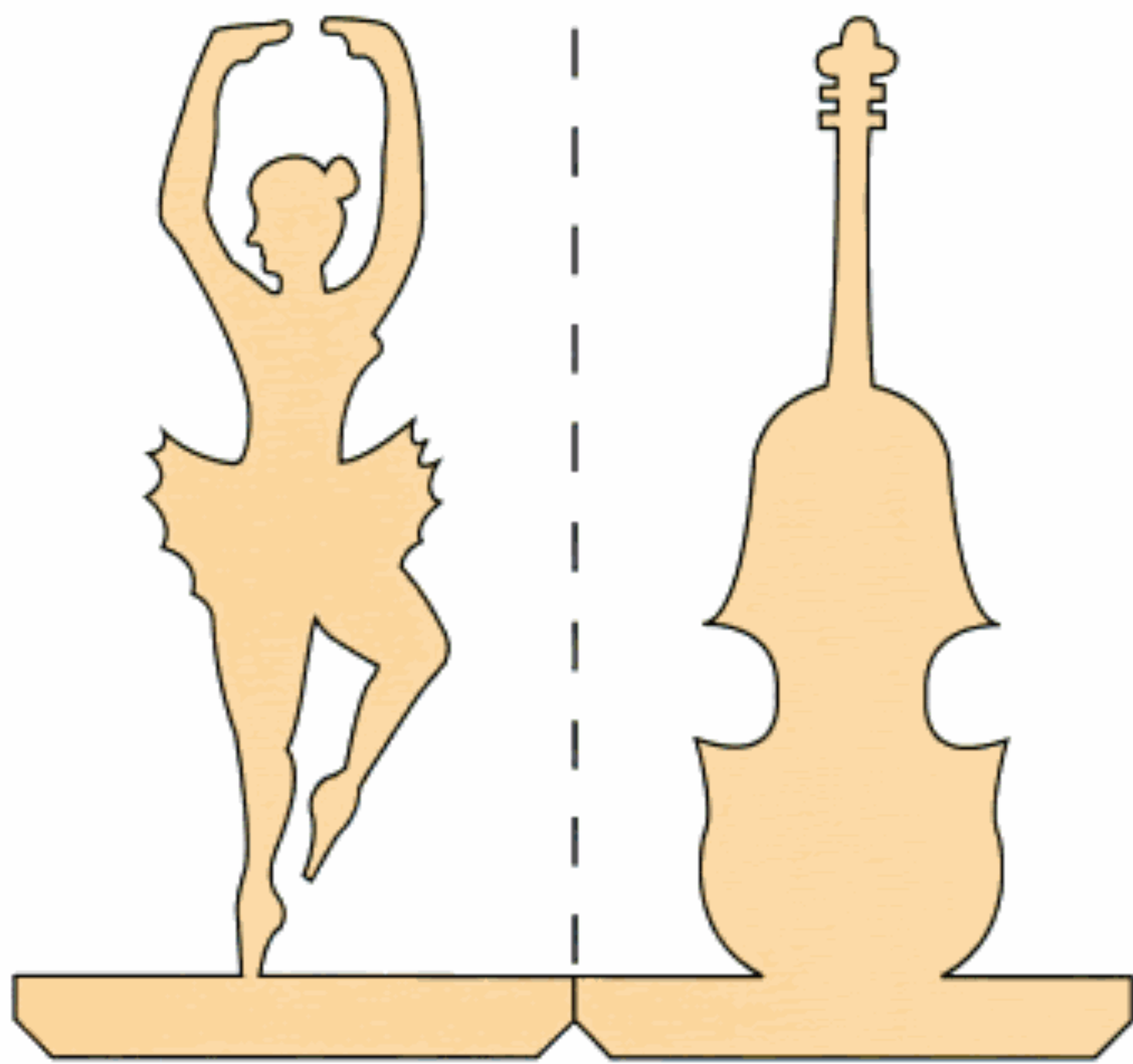
Buffalo & Indian Chief



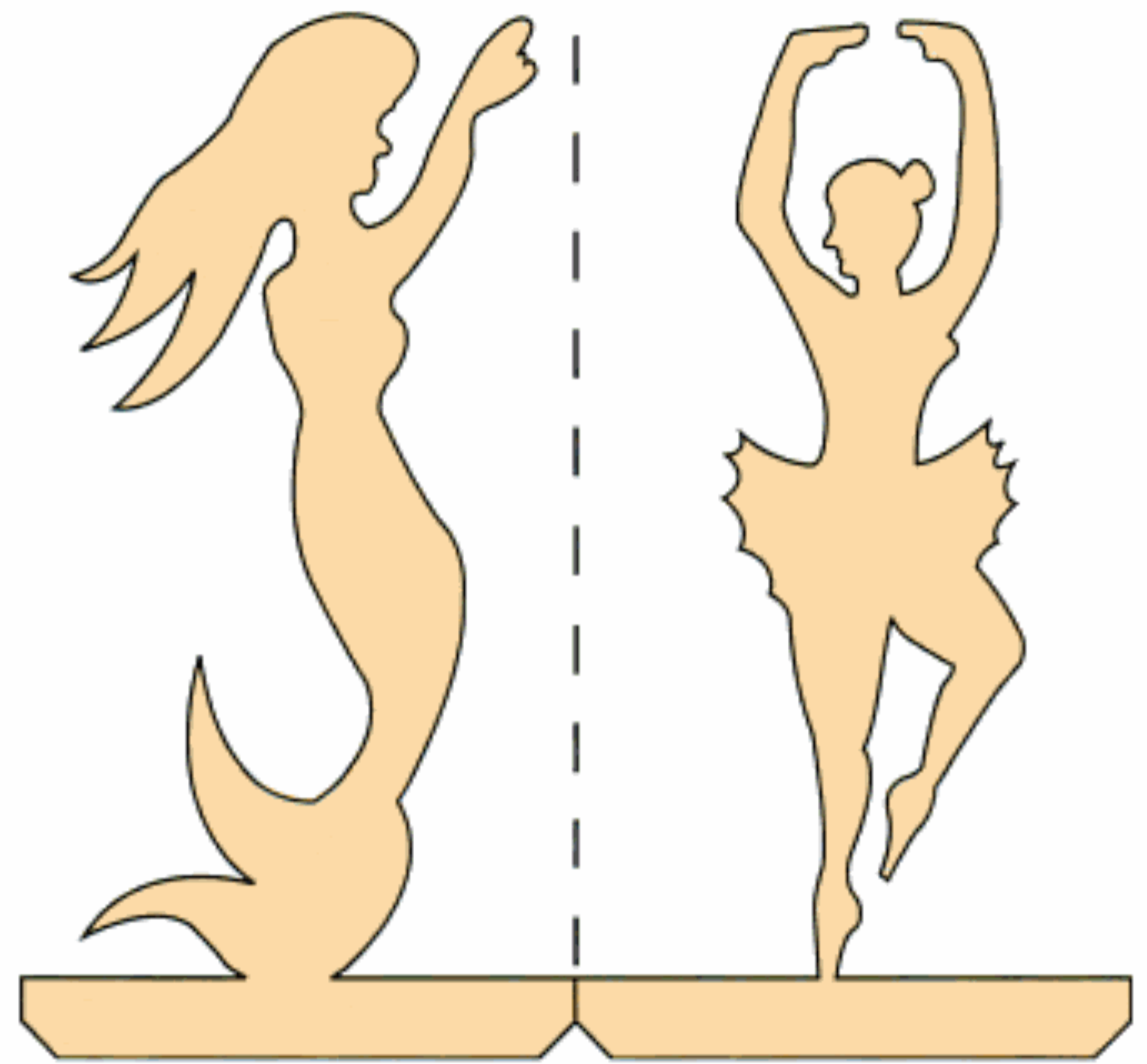
Gymnast & Ballerina



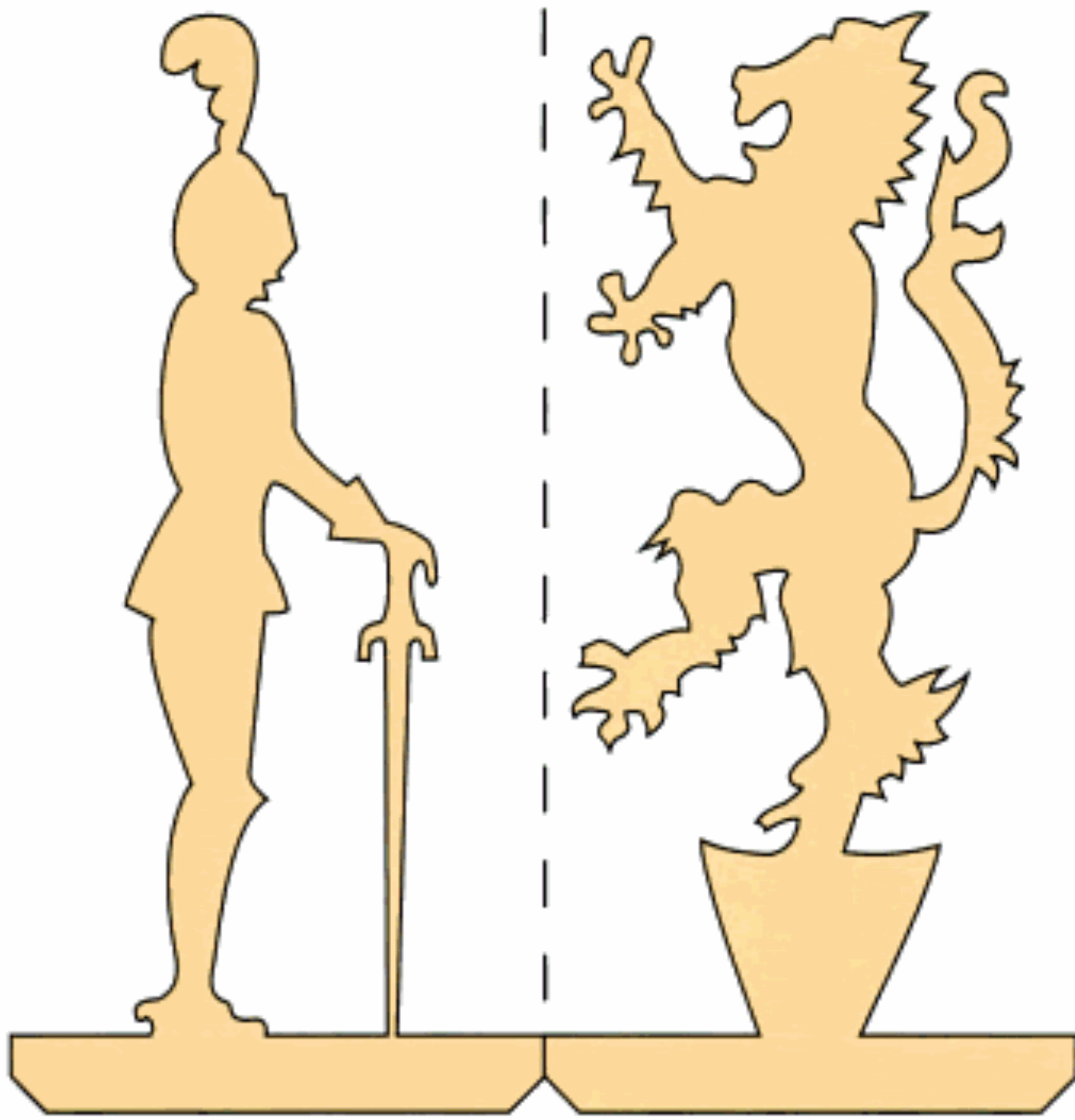
Ballerina & Swan



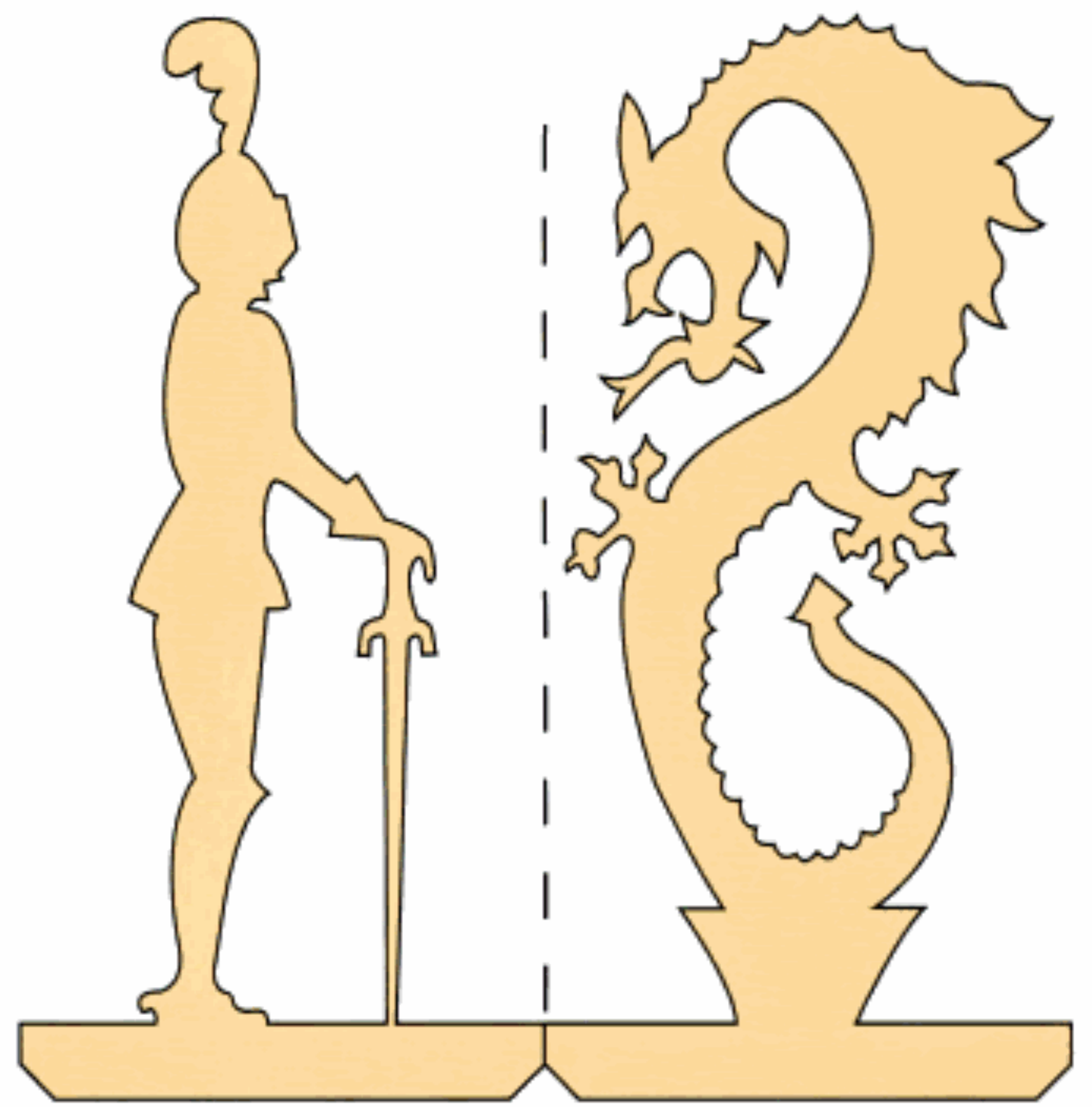
Ballerina & Cello



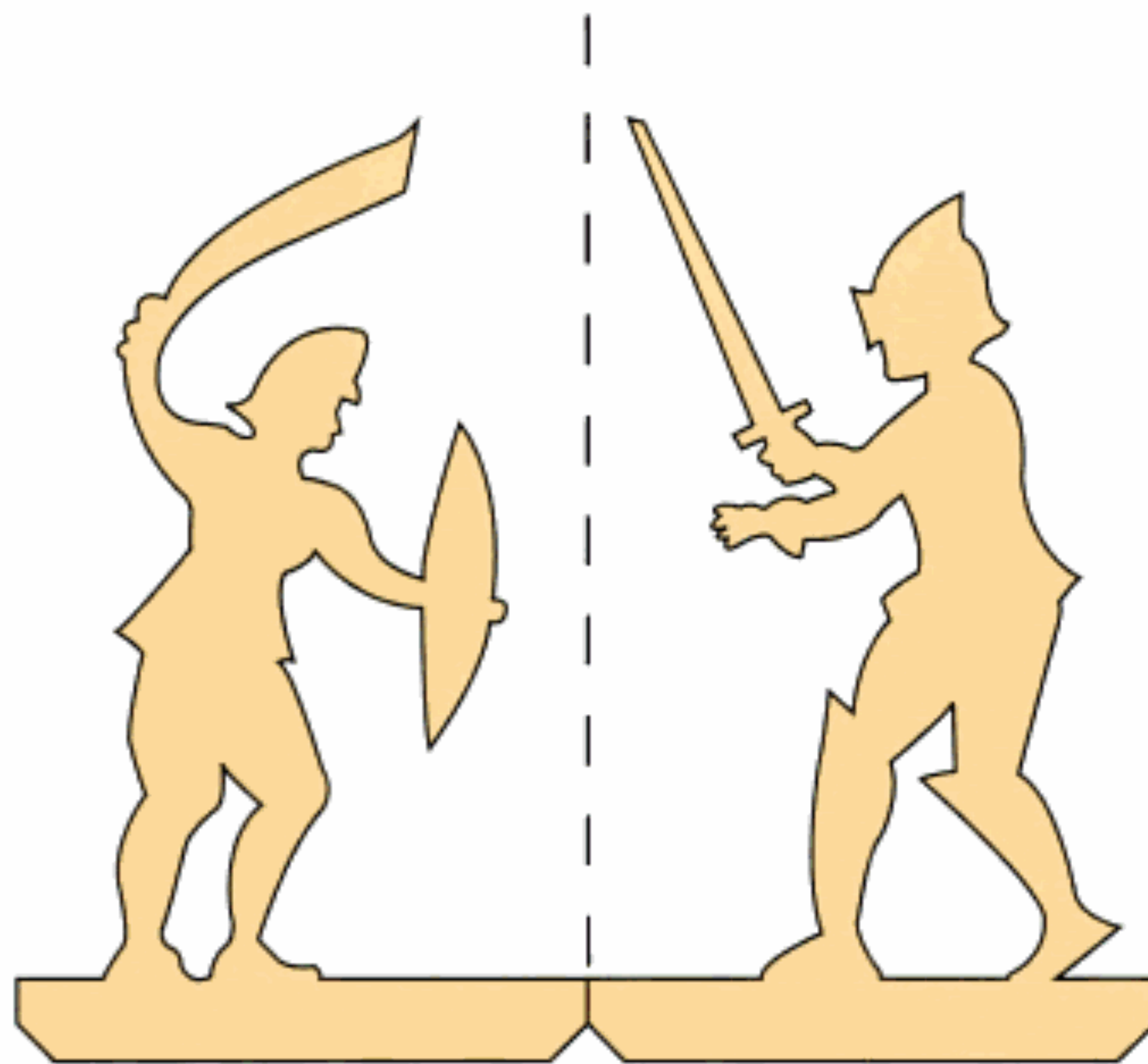
Mermaid & Ballerina



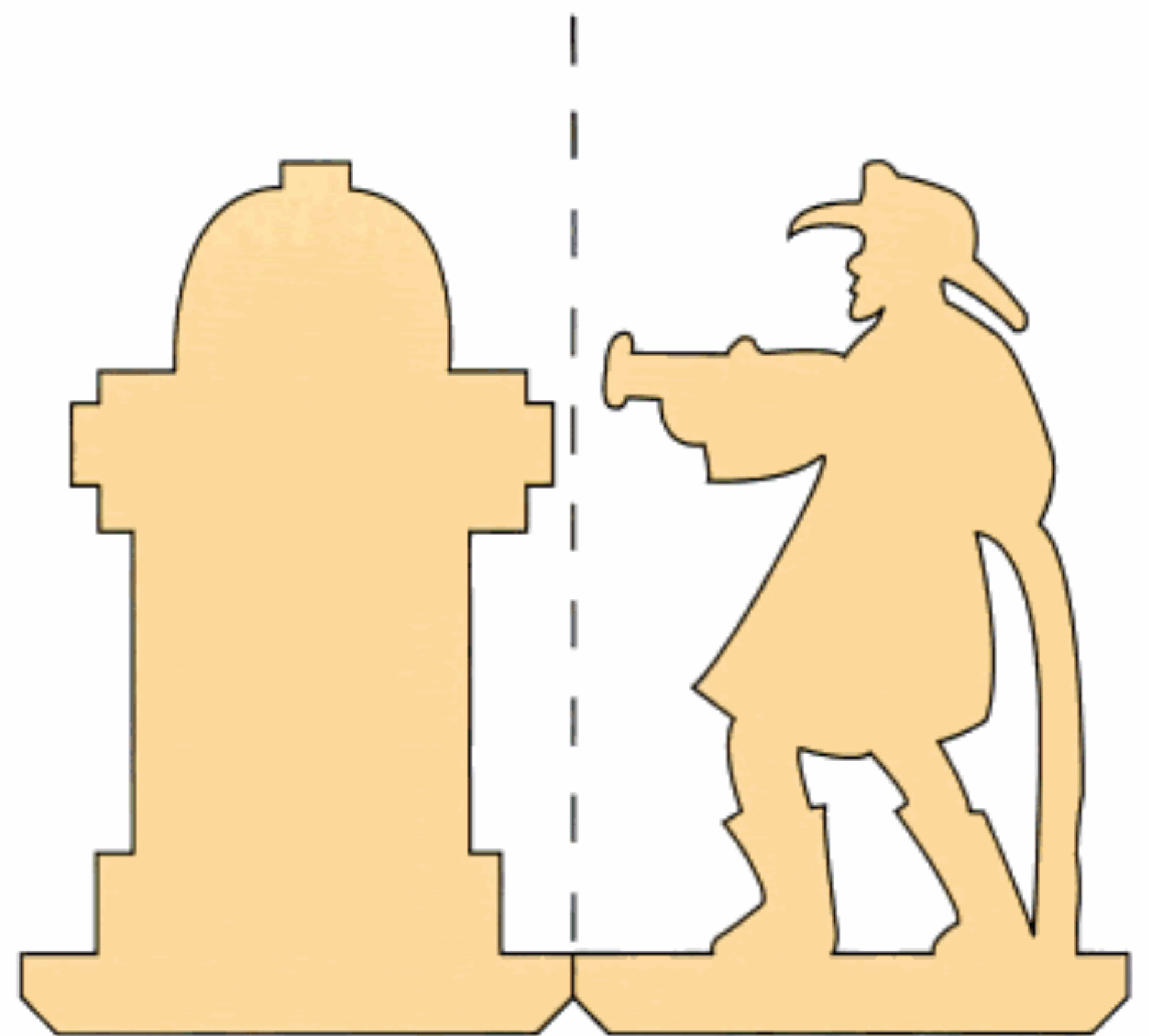
Knight & Griffin



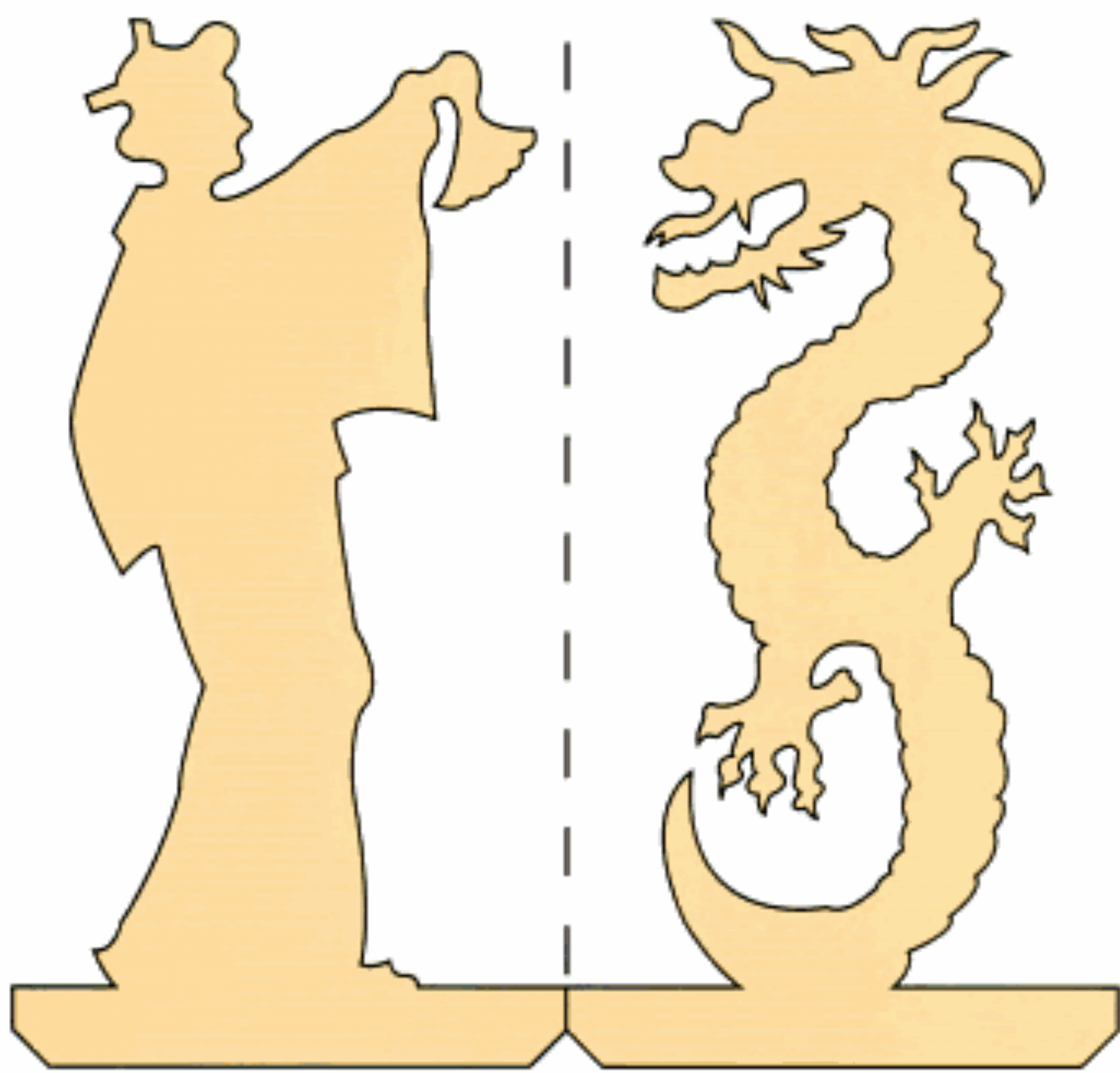
Knight & Dragon



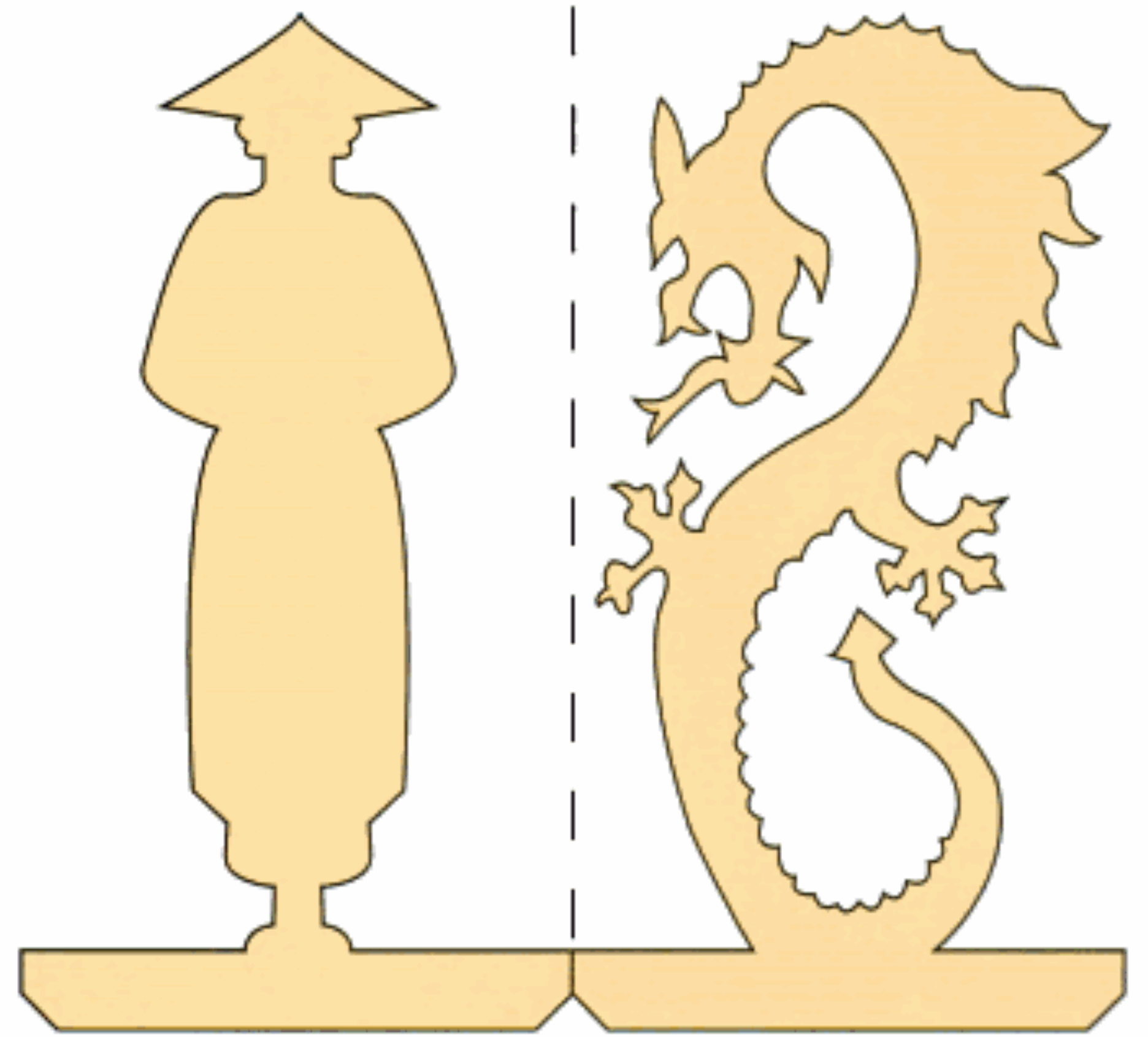
Gladiators



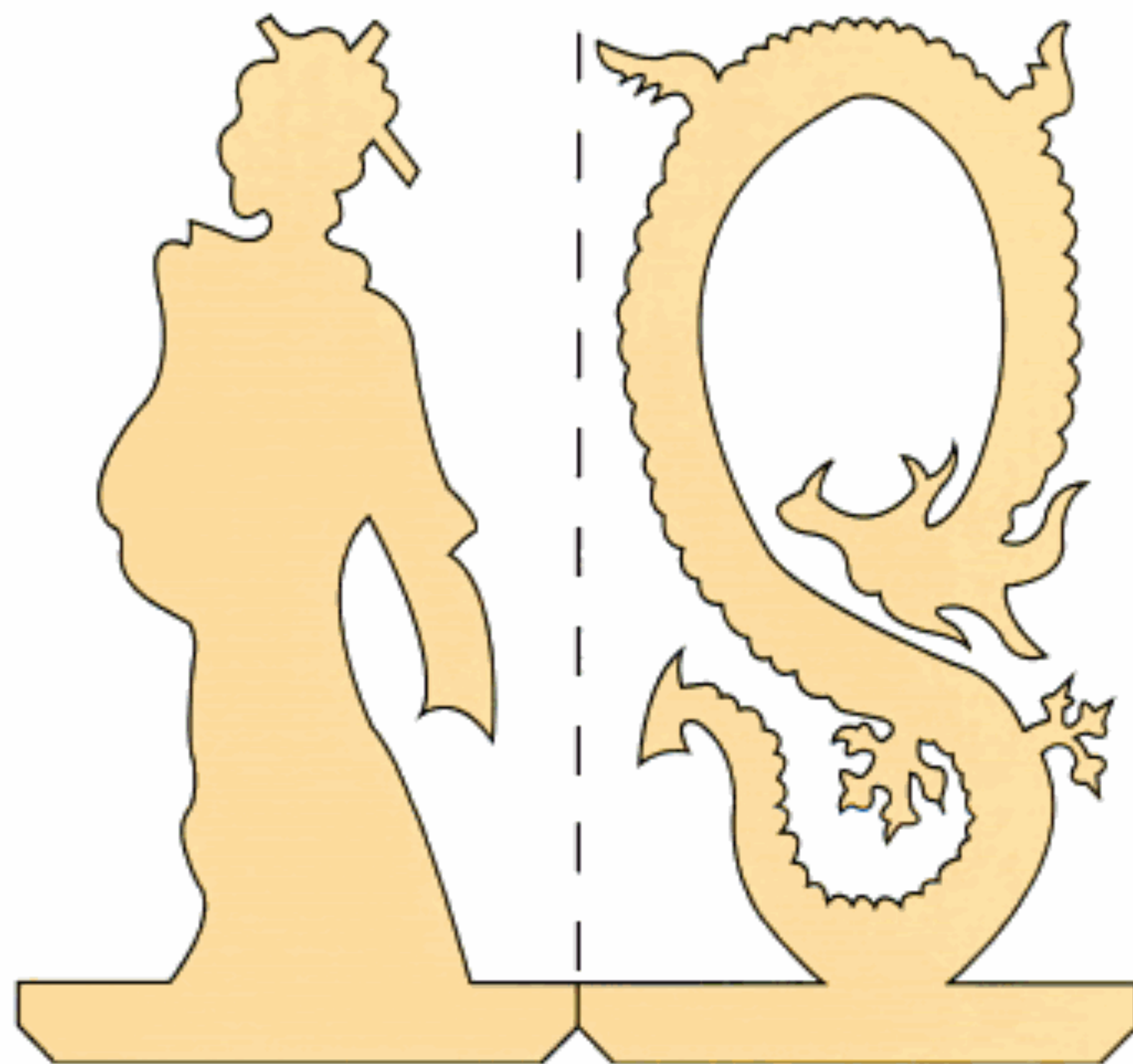
Hydrant & Fireman



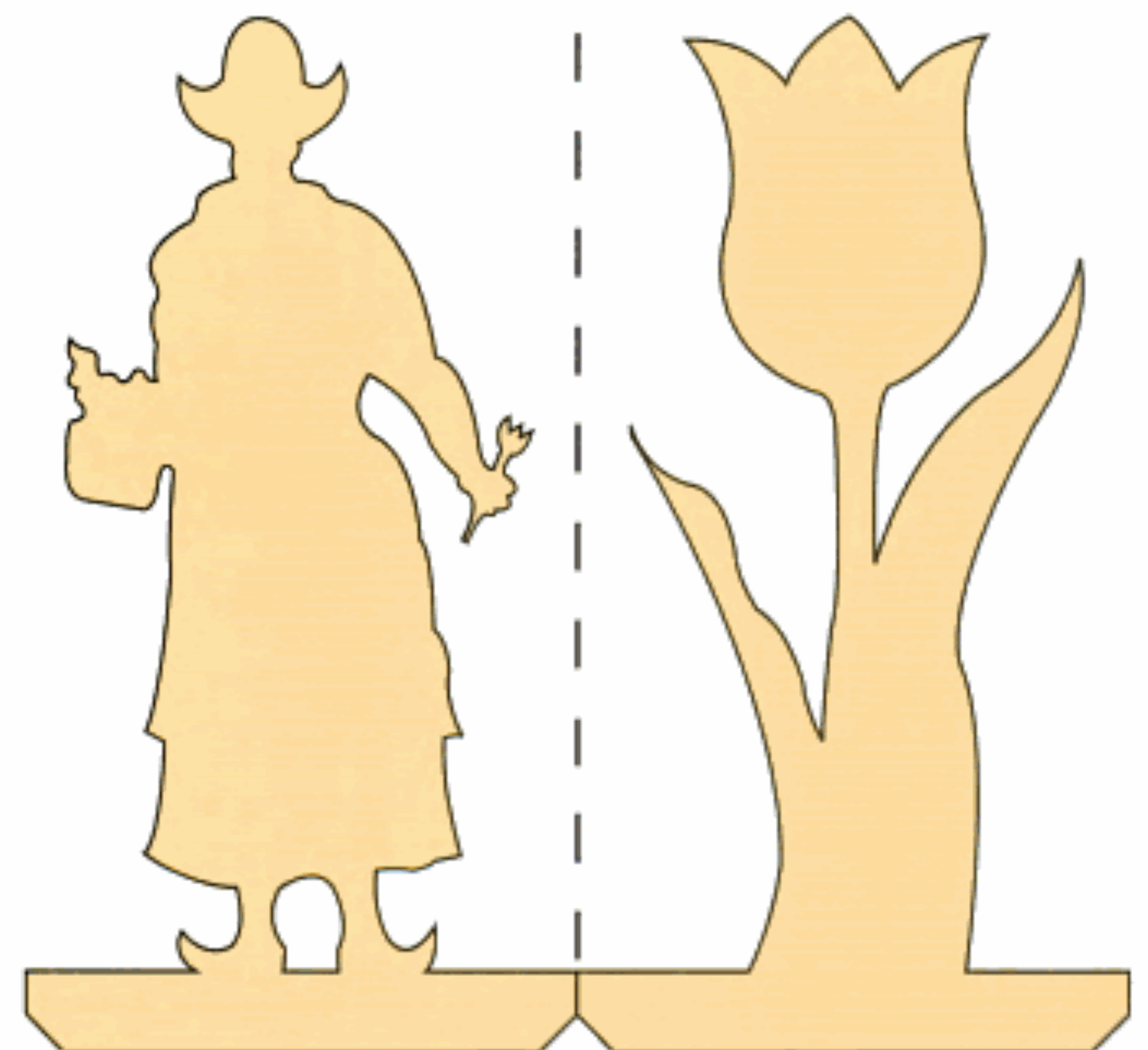
Japanese Lady & Dragon



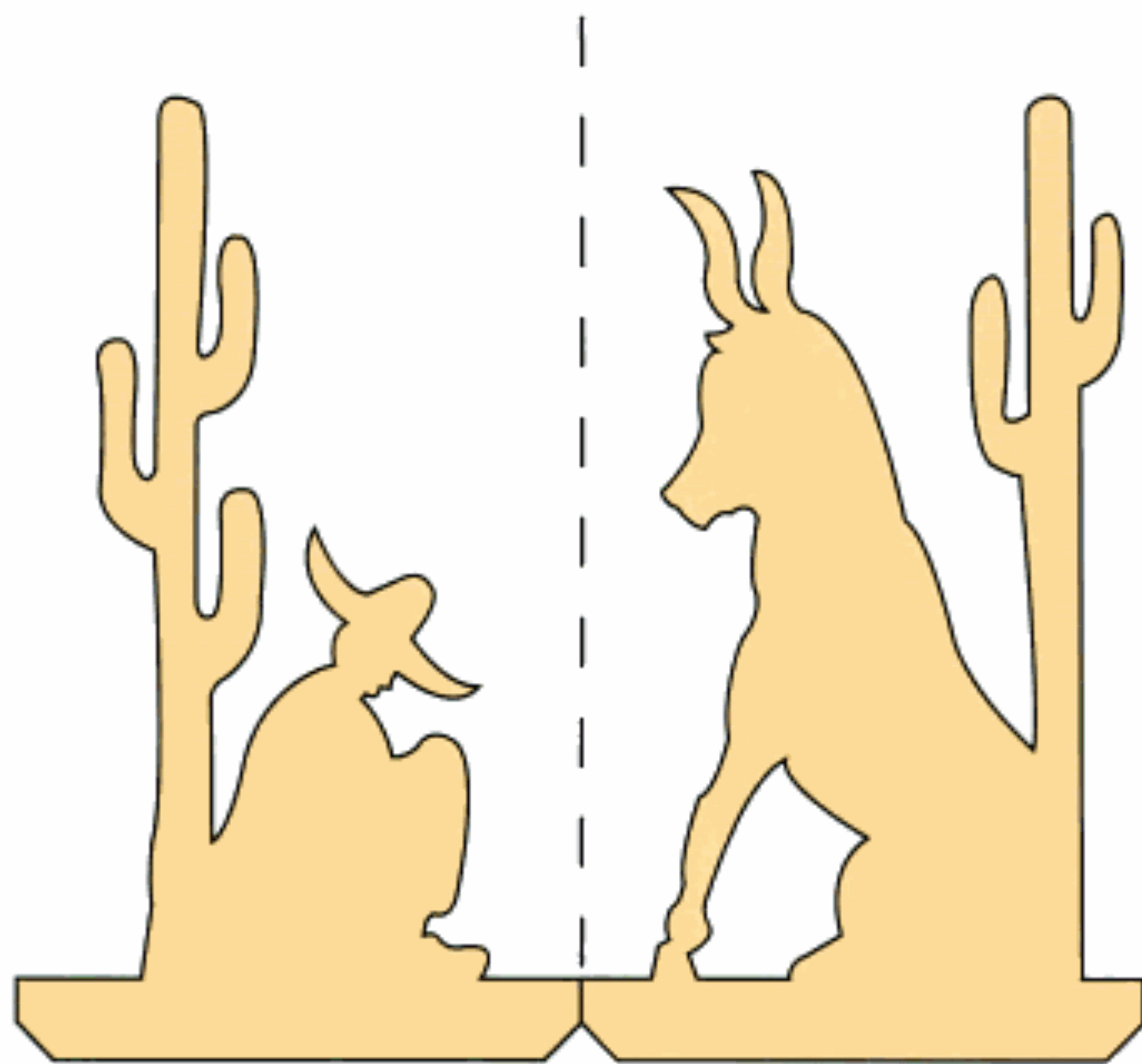
China Man & Dragon



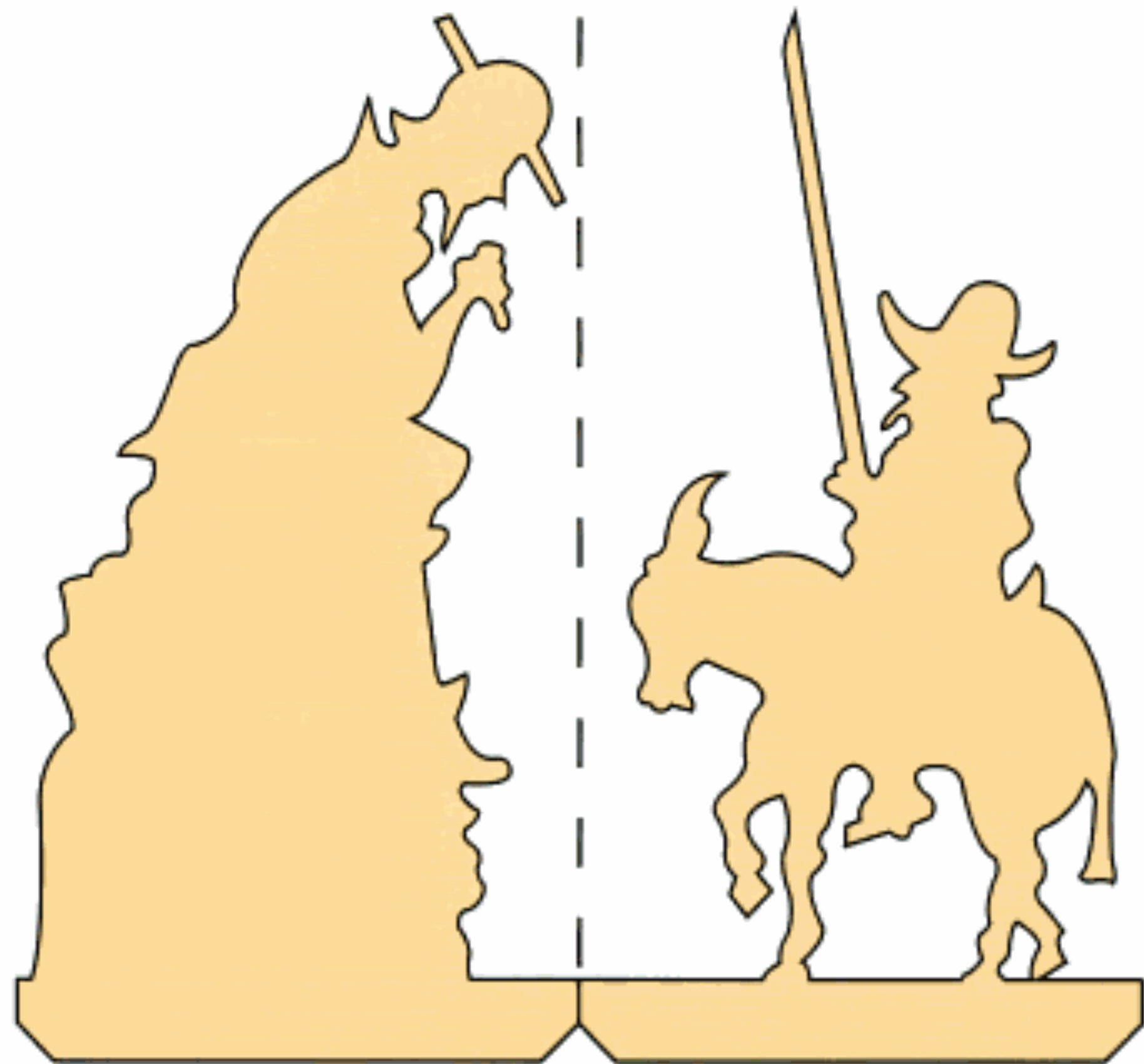
China Lady & Dragon



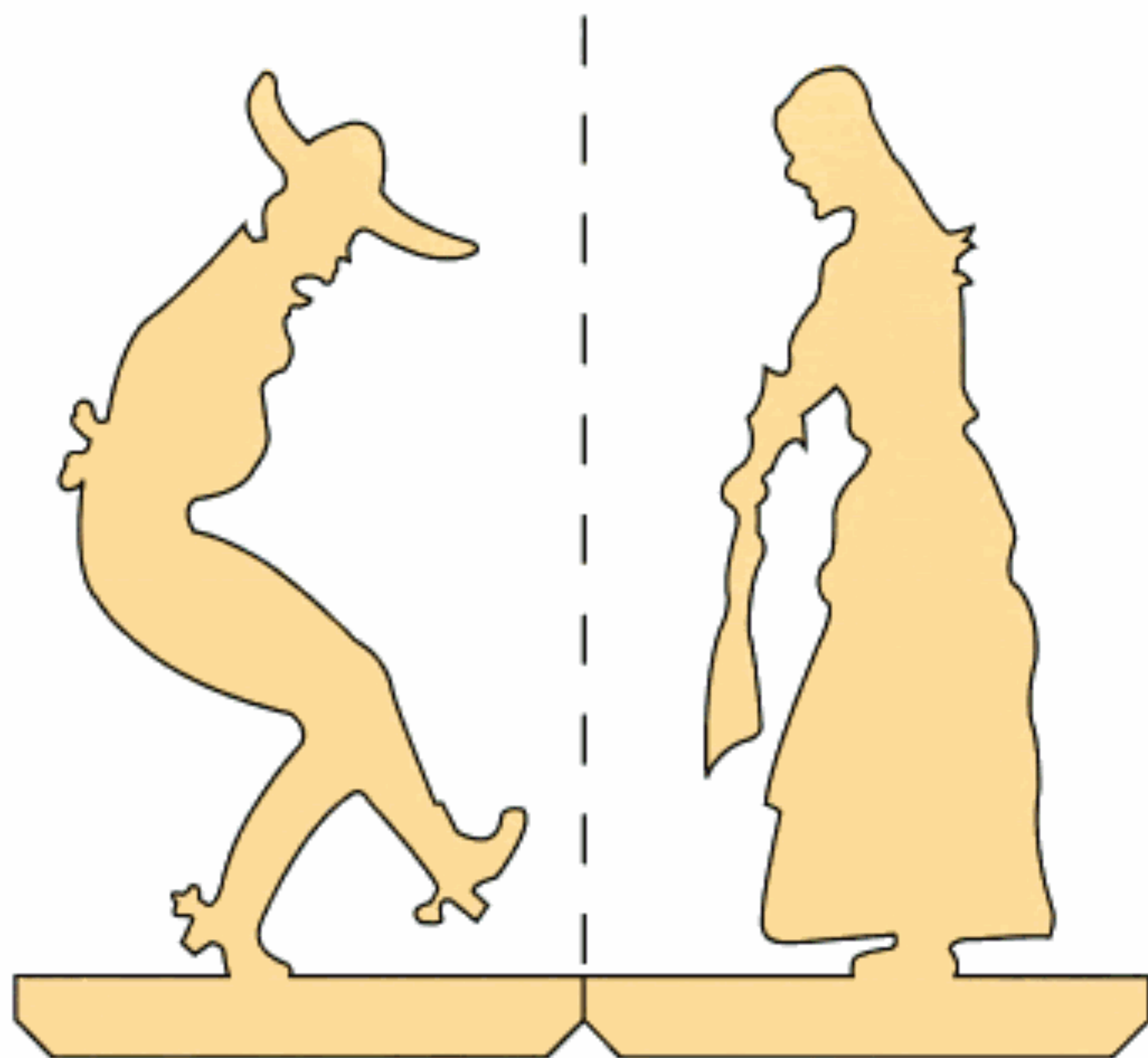
Dutch Girl & Tulip



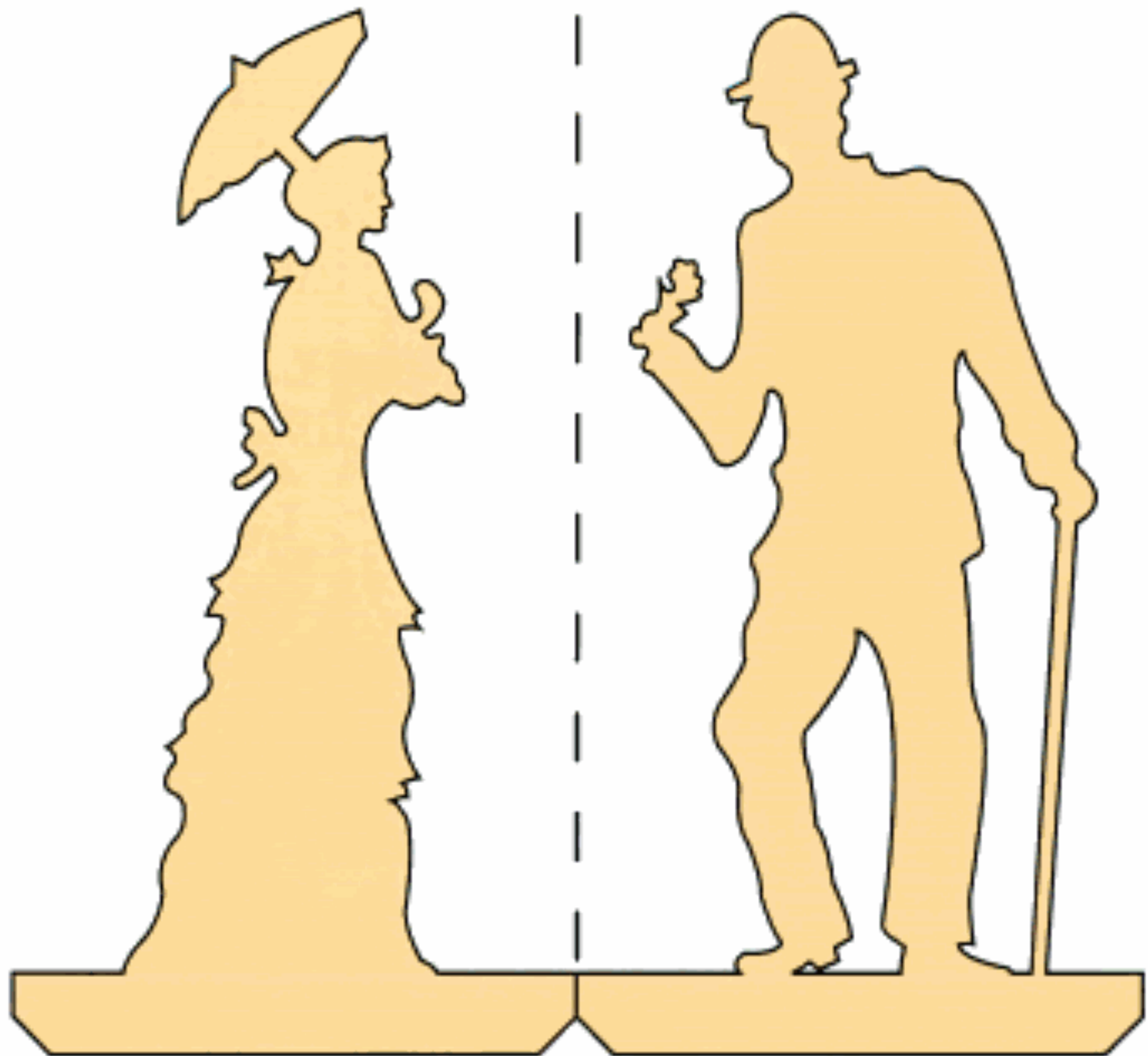
Man & Burro



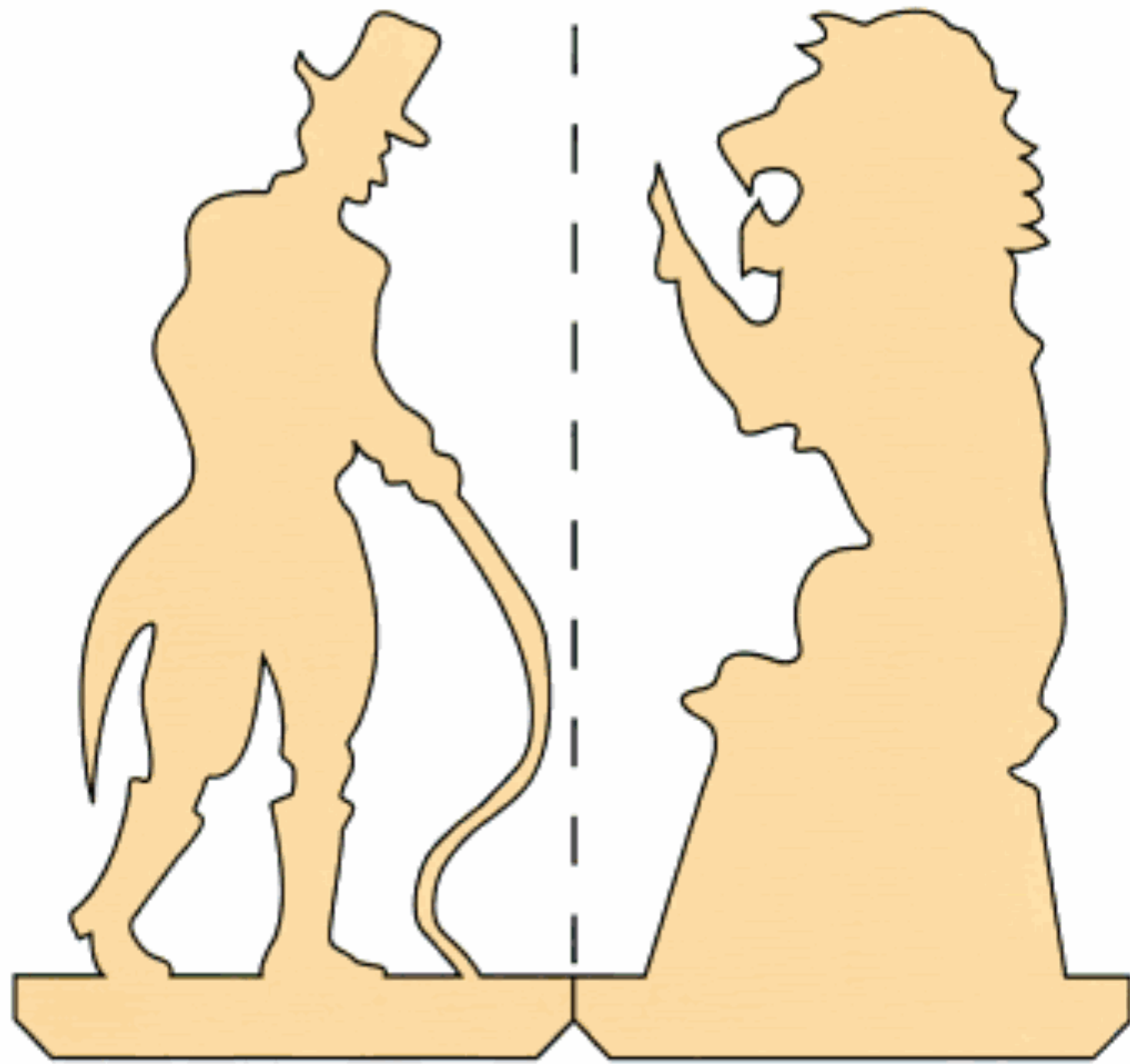
Man on Rock & Man on Burro



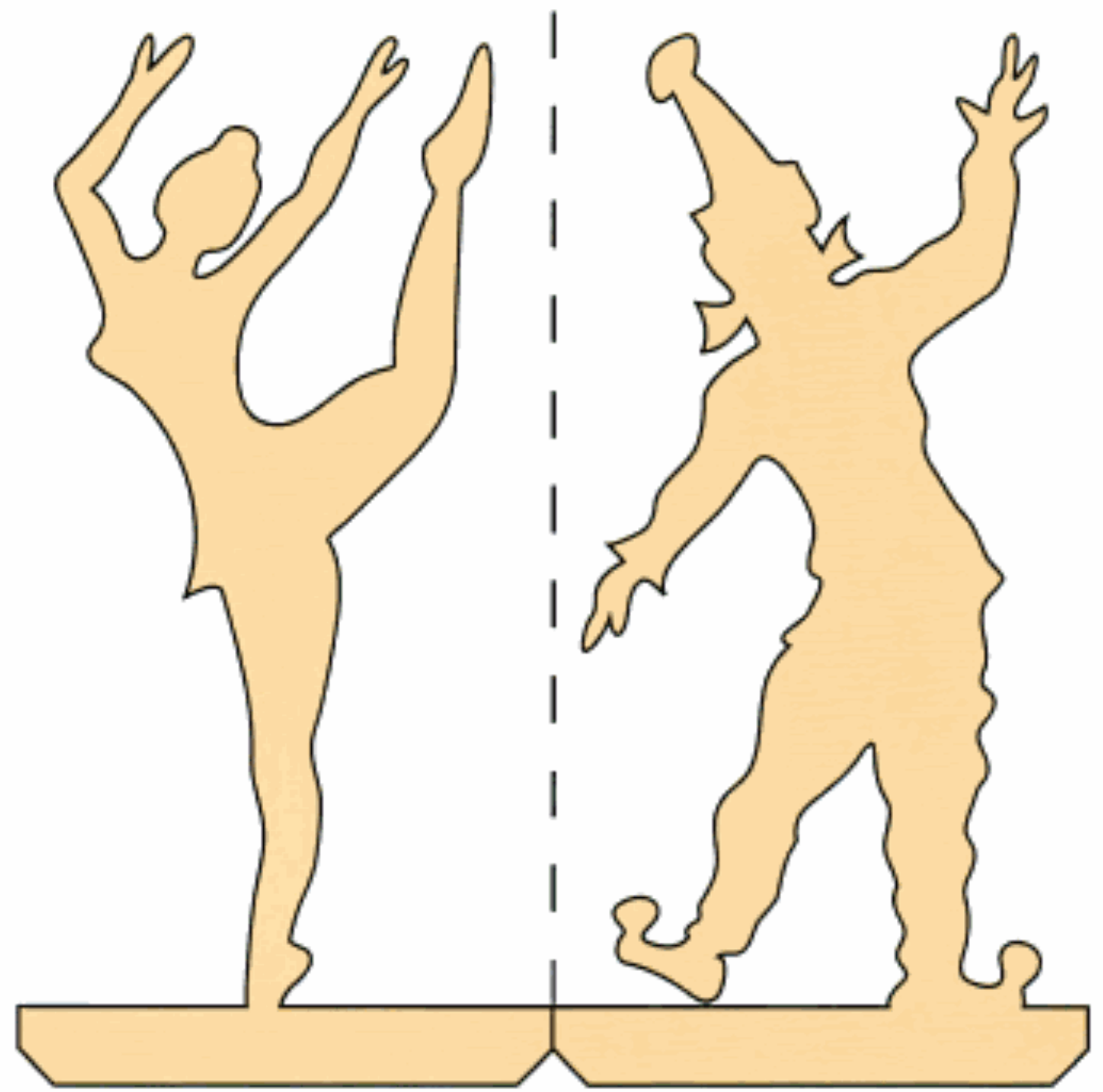
Mexican Dancers



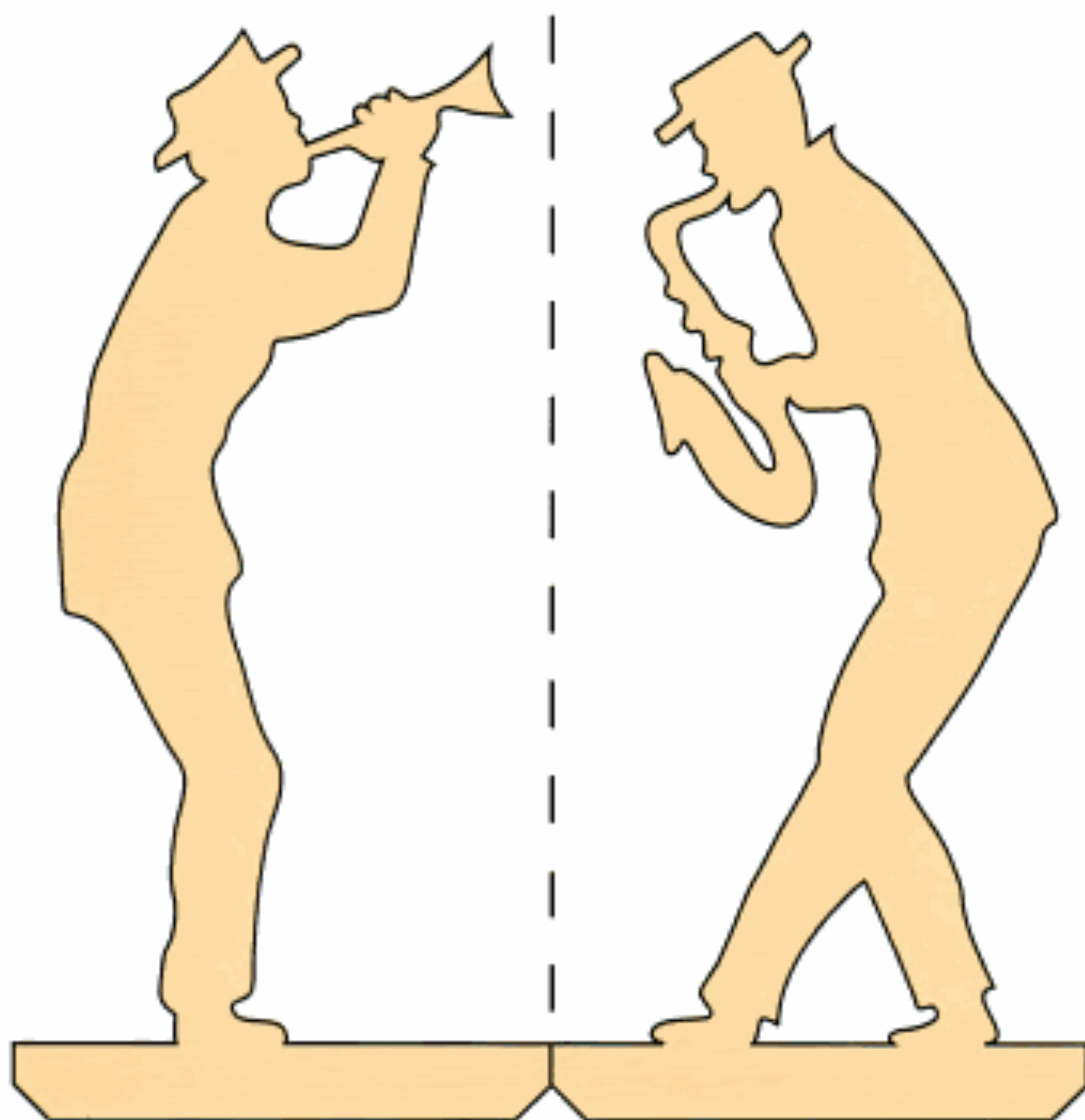
Lady & Gent



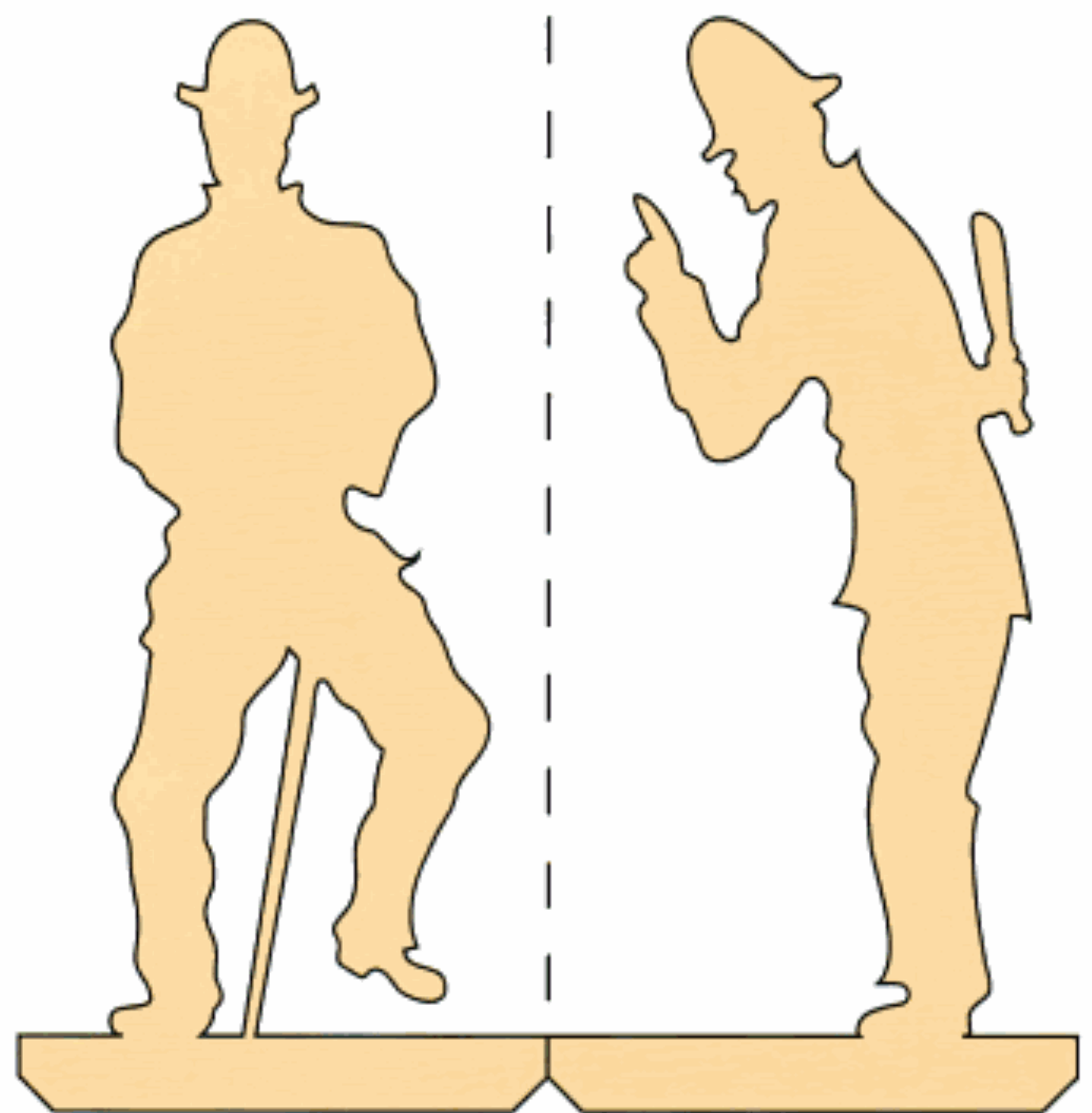
Lion Trainer & Lion



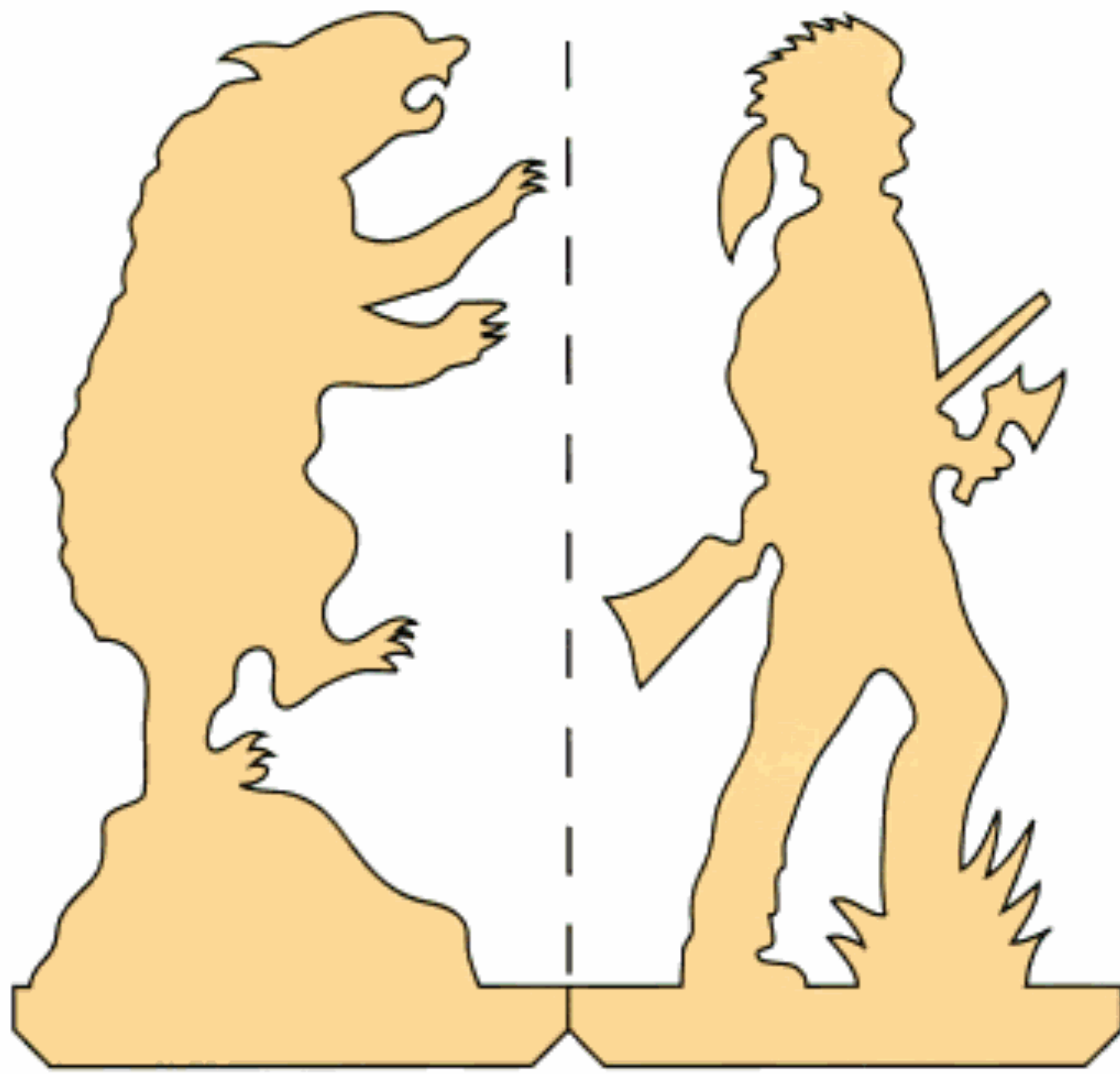
Ballerina & Clown



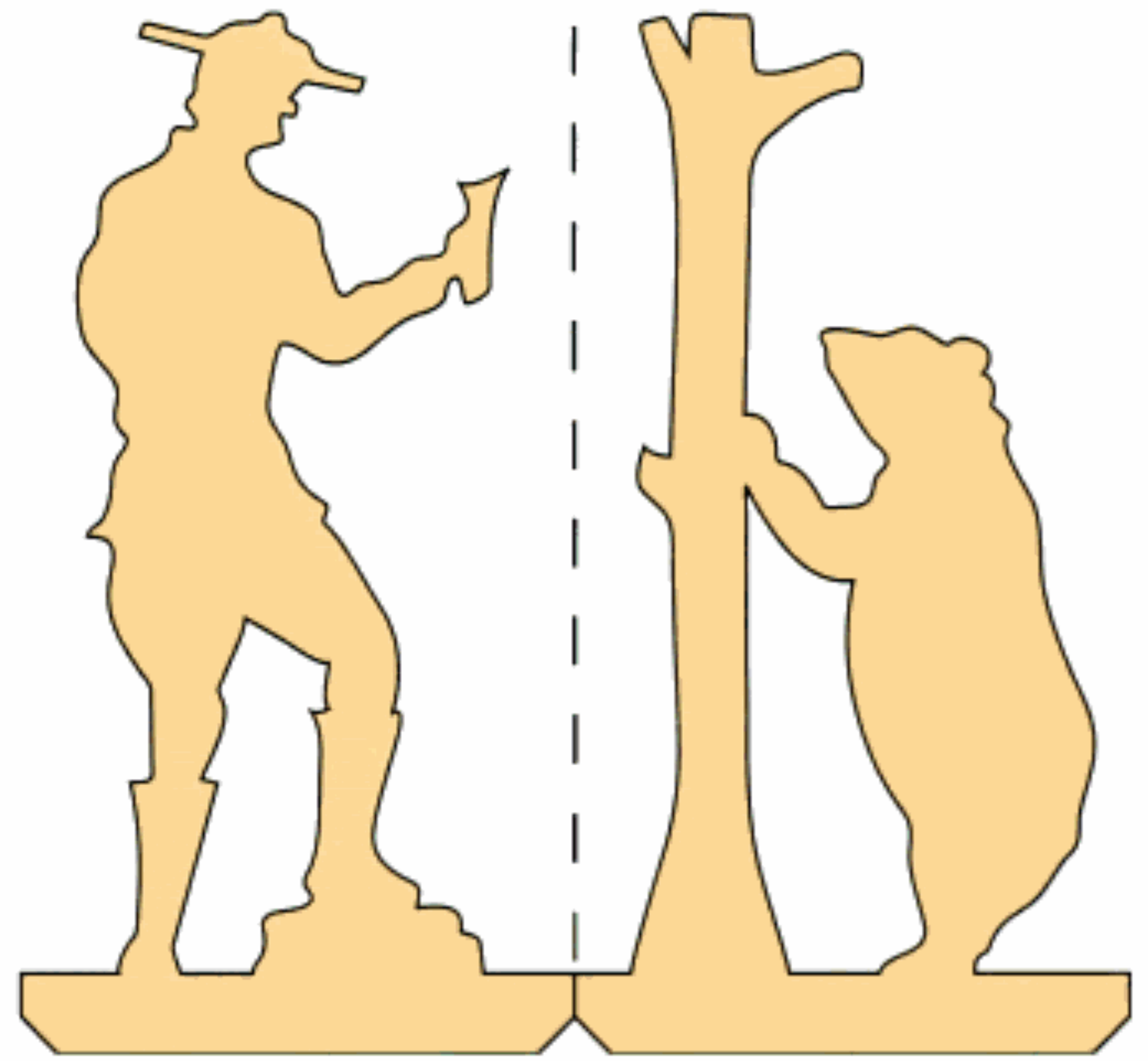
Horn Player & Saxophone Player



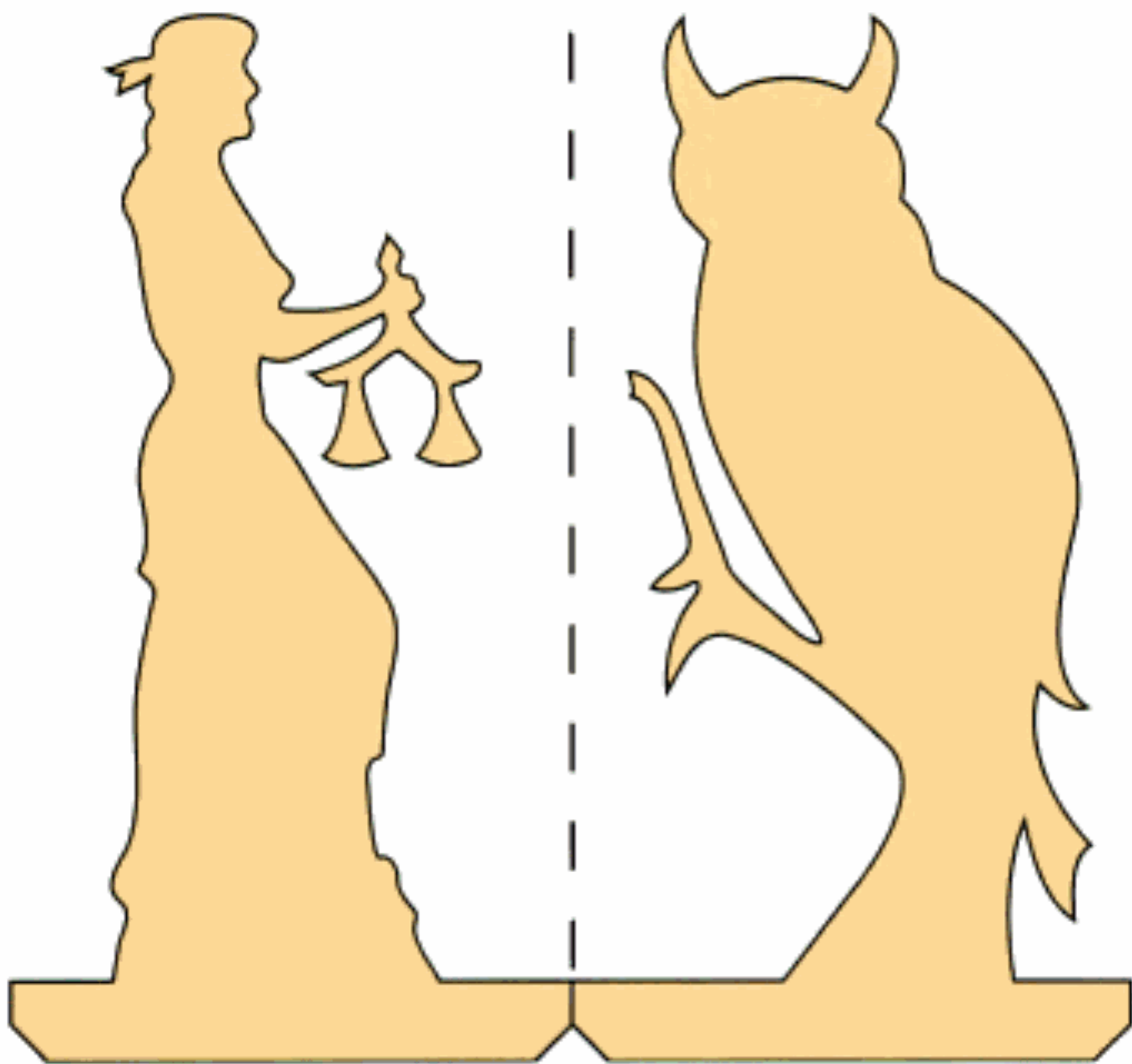
Chapman & Keystone Cop



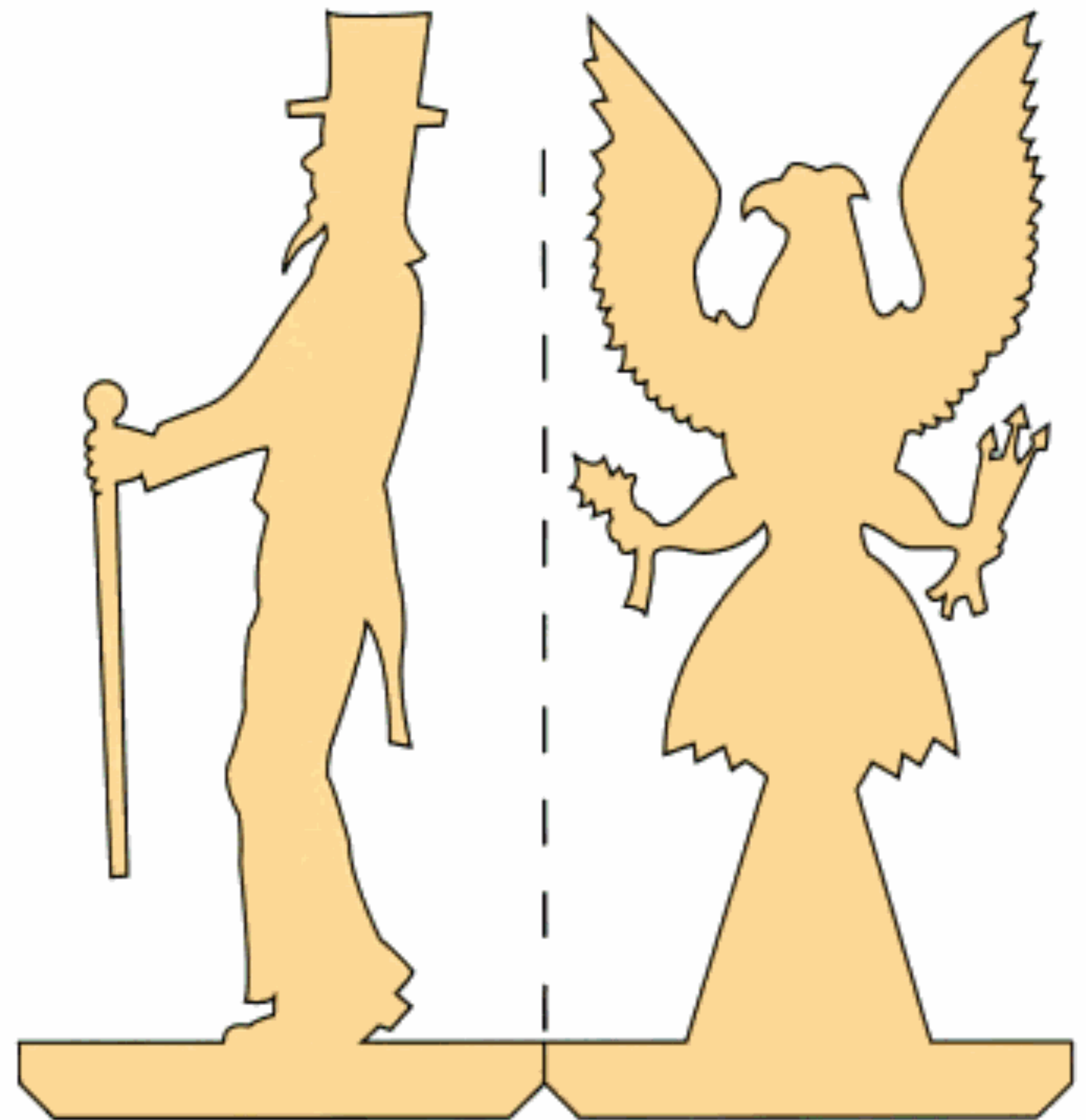
Grizzly Bear & Boone



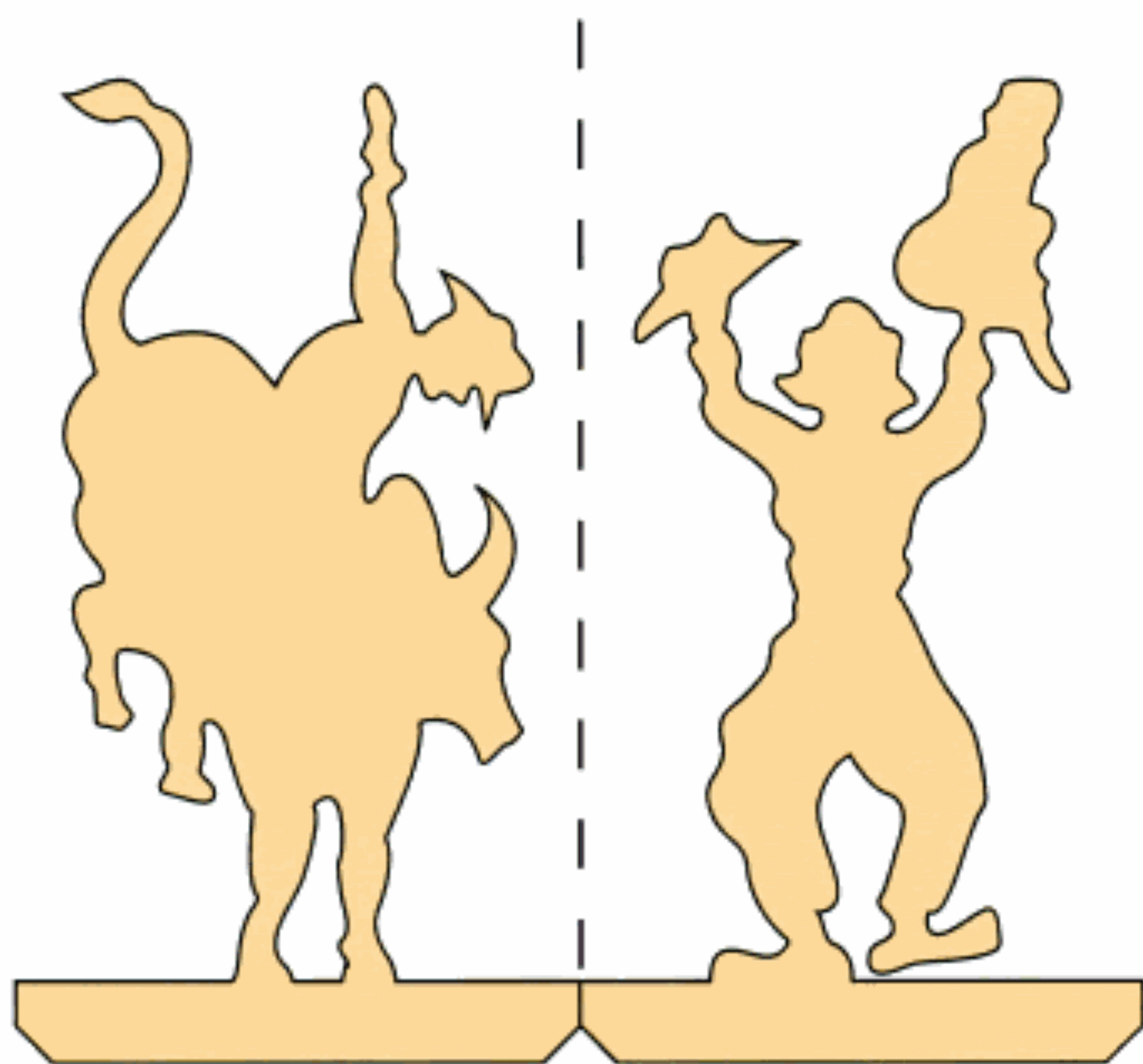
Park Ranger & Bear with Tree



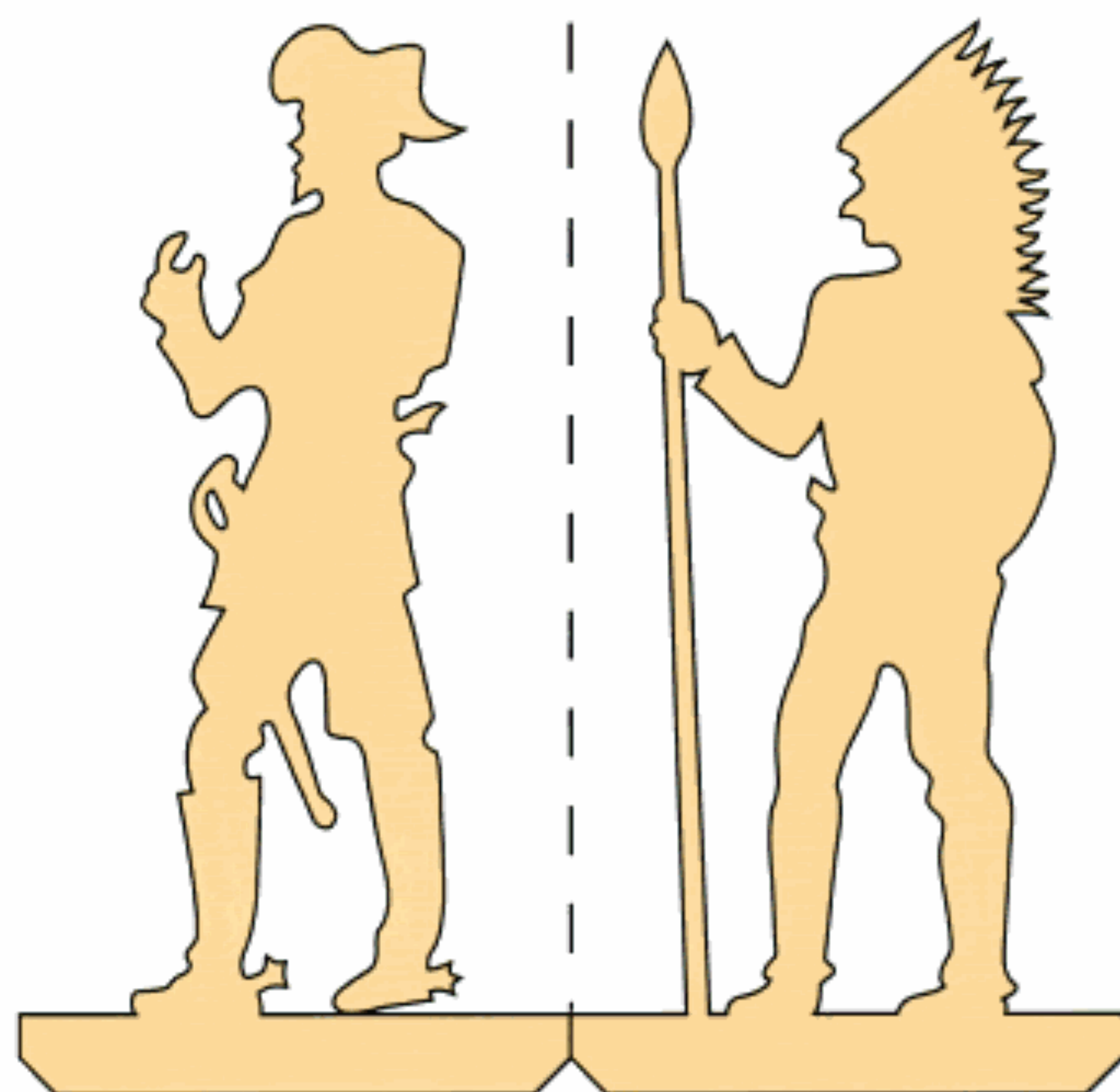
Lady Justice & Owl (Wisdom)



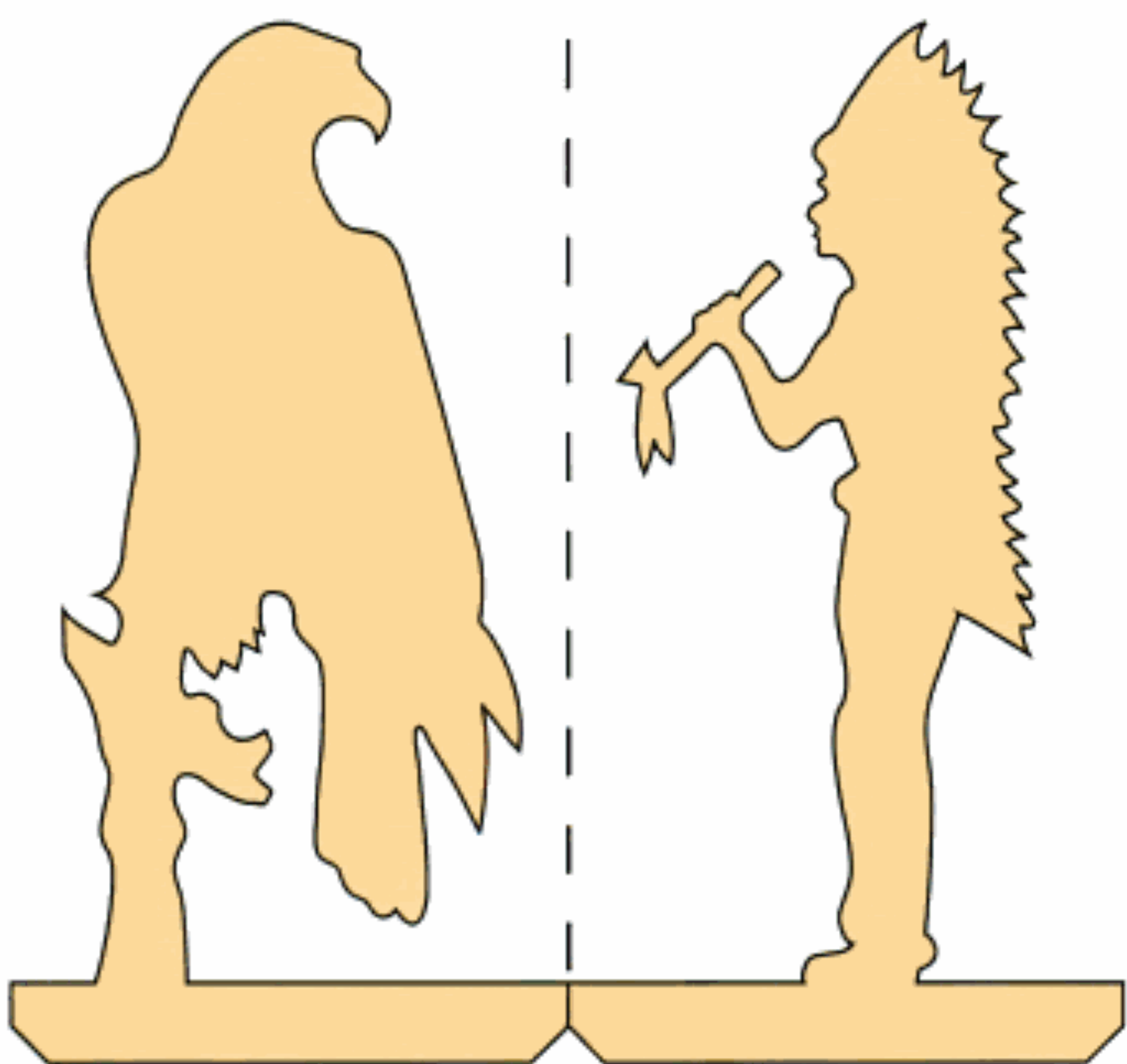
Uncle Sam & American Eagle



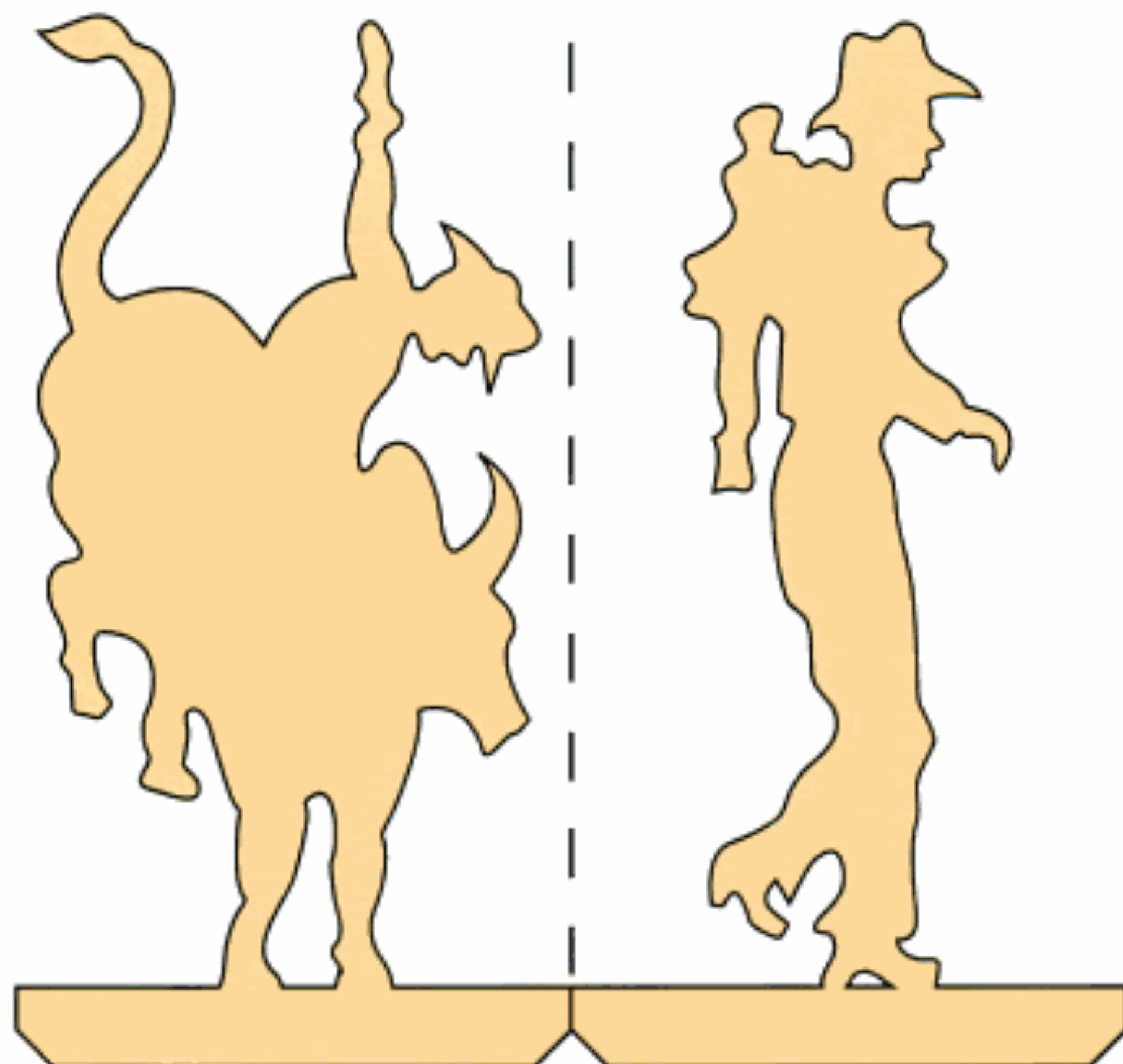
Bull Rider & Rodeo Clown



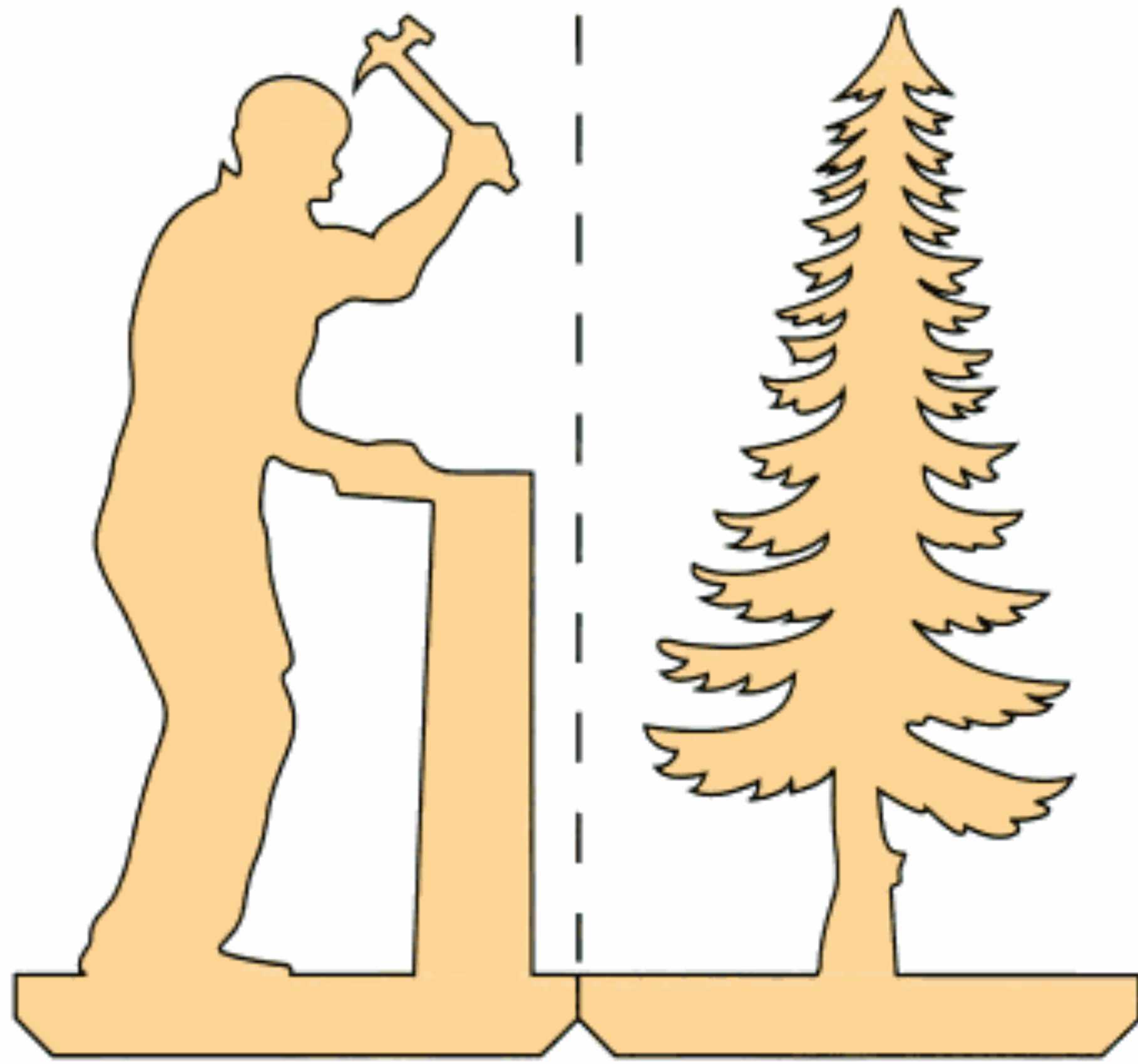
Custer & Sitting Bull



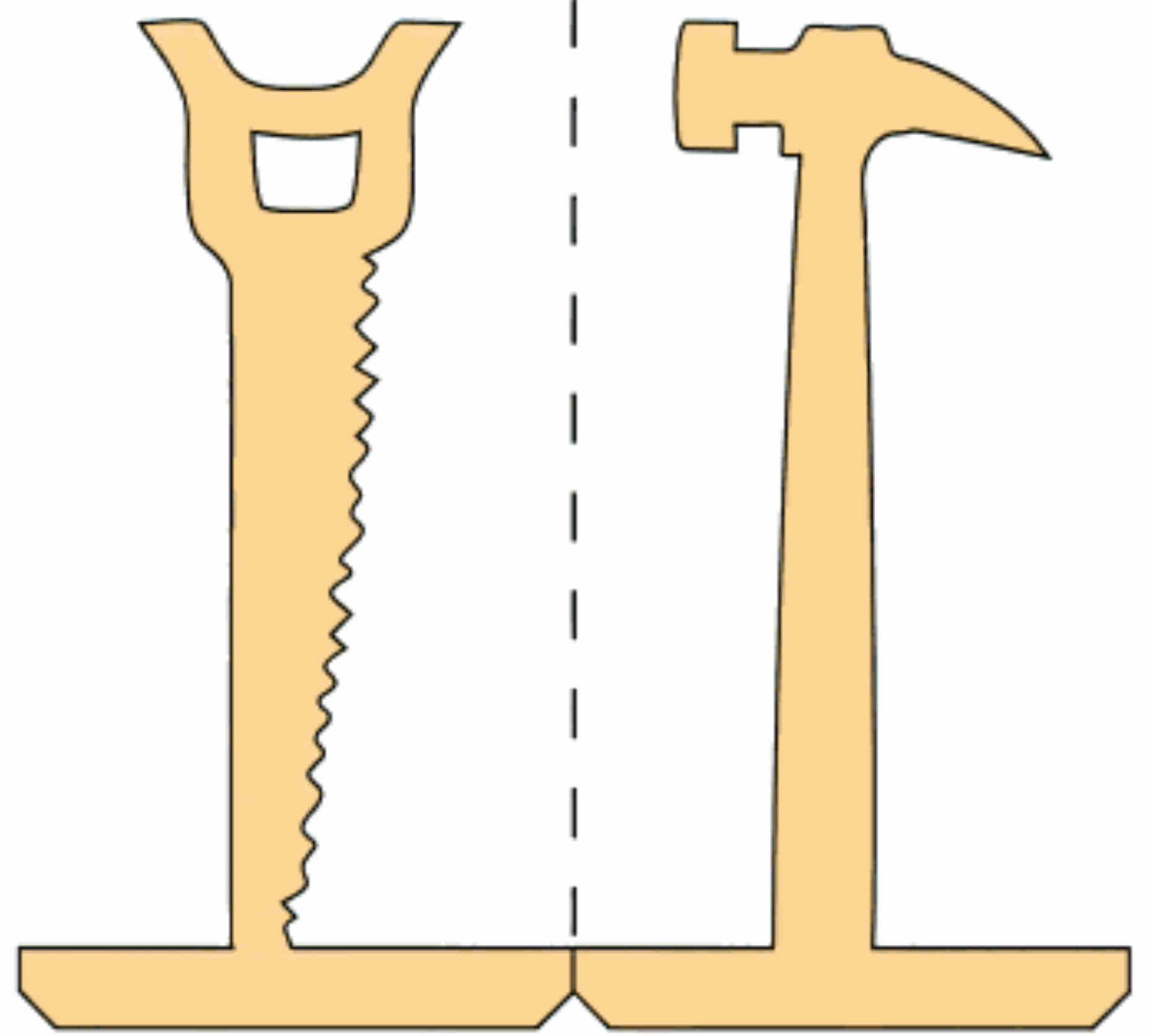
Perched Eagle & Indian Chief



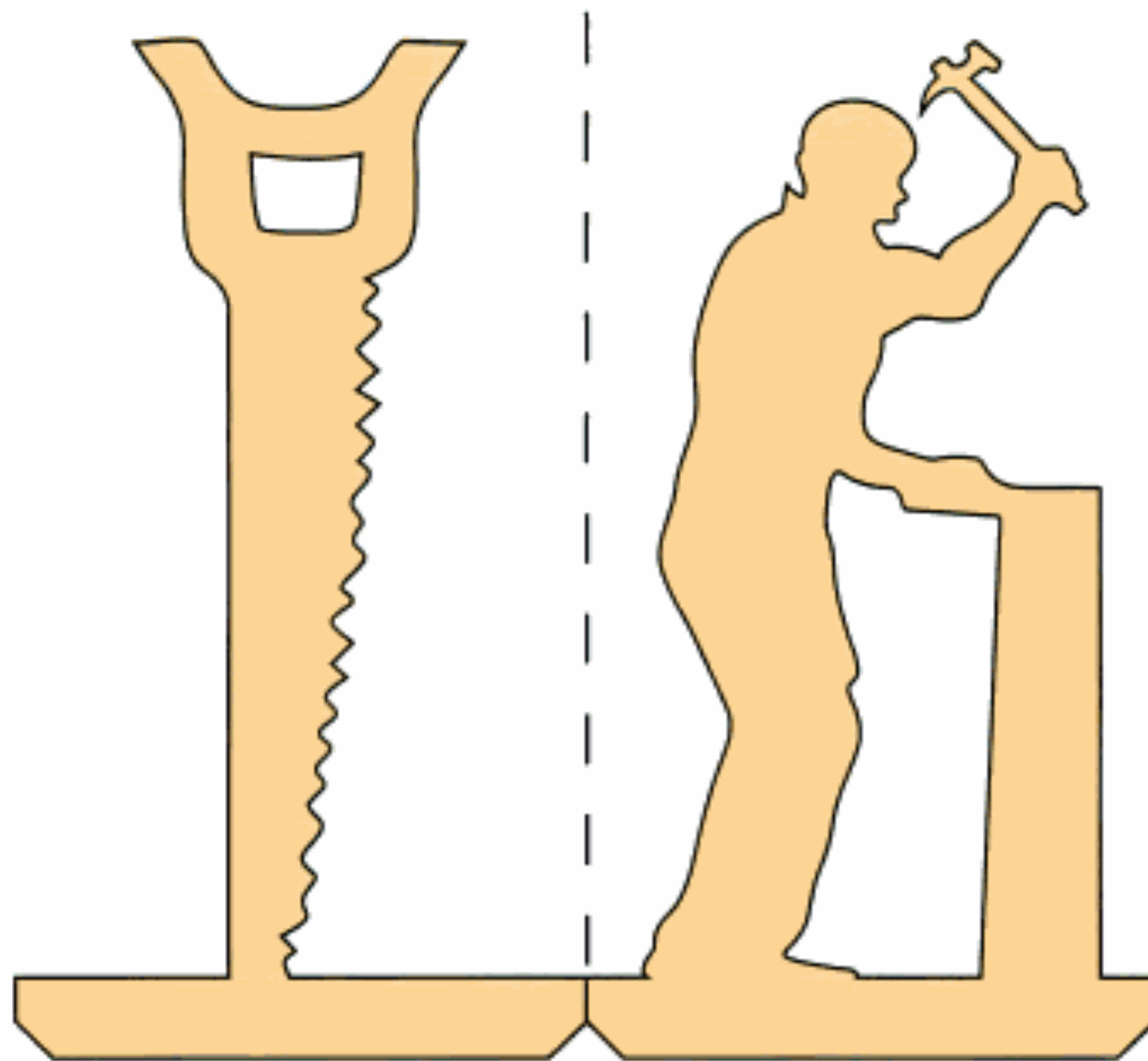
Bronc Rider & Cowboy



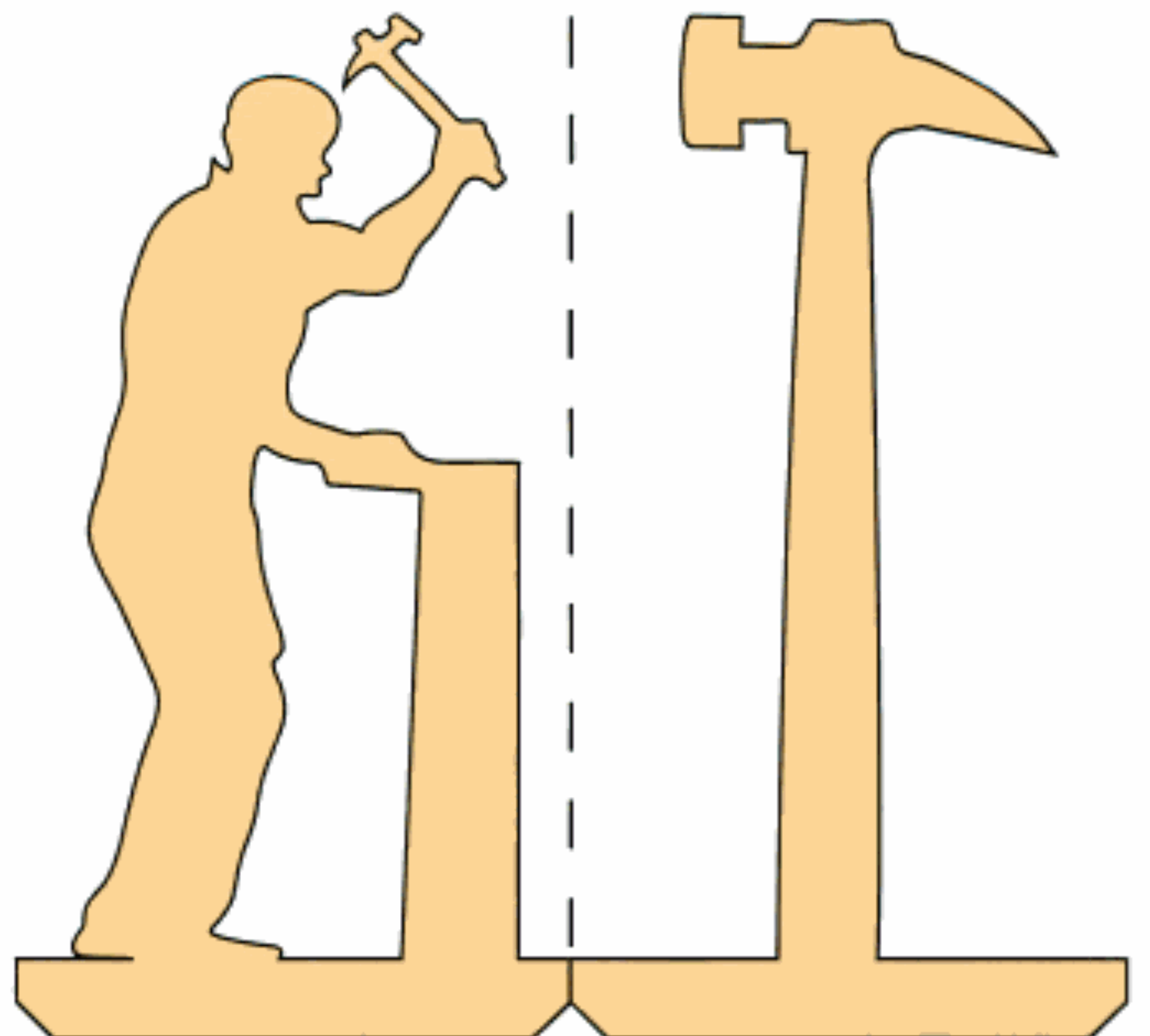
Man & Tree



Saw & Hammer



Saw & Man



Man & Hammer

Sam Keener



Sam Keener started woodworking as a small child in his grandfather's shop. Today he and his wife Mary create and sell woodworking projects—mostly compound figures and Intarsia—through their shop in Ohio.

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Words of Faith in Wood

By Jeff Paxton

Learn to express your faith in wood with the 76 inspirational scroll saw patterns included in this book! This book focuses on combining actual Scripture verses with artistic imagery. The result is a lasting piece of artwork that makes a meaningful decoration for your own home, or someone else's. ISBN 1-56523-228-3, 72 Pages, soft cover, \$14.95

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Add a new twist to traditional three-dimensional scroll saw work

Take a look at one of Sam Keener's scroll saw pieces and you'll see an angel. Turn it 90 degrees and look again. Now you'll see a butterfly perched on a flower. Pick up another piece: One side is a musical note; the other is a saxophone. A step beyond "three-dimensional" scroll saw projects, these two-in-one figures are made with a unique cutting technique perfected by author and artist Sam Keener.



An example of one of the many patterns you'll find inside

Exclusive
2-in-1
Patterns



Two designs share one 3D scroll saw piece. The front and back of this piece show the Nativity; the left and right sides show Jesus with a crown of thorns.

Inside you'll find:

- Instructions and illustrations explaining "two-in-one"
- Color photographs of select pieces showing all four sides of the figure
- 128 distinct, ready-to-use patterns for nautical themes, wildlife, music, people and more




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