FANTASY UNDERGROUND



HOW TO DRAW STEHALDING

FEATURES
INSTRUCTION
ON DIGITAL
ILLUSTRATION

Discover the secrets to drawing, painting, and illustrating the curious world of science fiction in the Victorian Age

ILLUSTRATED BY BOB BERRY . WRITTEN BY JOEY MARSOCCI & ALLISON DEBLASIO





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CHAPTER 1: &DISCOVER STEAMPUNK

The word "steampunk" evokes images of dirigibles, unusual characters in sumptuous Victorian attire, and brilliantly modified computers and weapons—all reminiscent of a time that never was. What was previously an underground society celebrated by fantasy-fiction buffs has recently emerged as a pop-culture phenomenon that spans multiple genres. Although the term "steampunk" was coined in the late '80s, the concept of the movement originated in the imaginations of such literary giants as Jules Verne, H. G. Wells, and Mary Shelley, and was further influenced by the scientific theories and ideas of Nikola Tesla, Thomas Edison, Albert Einstein, and others. In the 1970s, these forces emerged as a new science-fiction movement that celebrated the collision of the modern world and the Victorian era.

In this book, you'll be treated to more than a dozen engaging step-by-step projects that will help you develop your steampunk artistic sensibilities. With guidance from the wonderfully talented artist Bob Berry, you'll learn to draw a range of steampunk gadgets, characters, and machines, including a steampunk soldier, a lightning gun, a flying galleon and a pipe organ. You'll learn myriad tips, tricks, and techniques for drawing and adding color, as well as how to use a variety of art tools and materials. Finally, you'll be given a passport to visit—and then to create—a phenomenal steampunk world using acrylic paint as your medium. Throughout your journey, the proprietors of Dr. Grymm Laboratories will provide an insider view into this interesting world, including information about the genre's origins and history, where to gather artistic inspiration, and a brief background about the featured drawing subjects.

Whether you're new to steampunk or you're a longtime fan, this book will give you the inspiration and knowledge you need to create your own amazing masterpieces. All aboard and full steam ahead—your artistic adventure into the world of steampunk begins here!

BHISTORY & ORIGIN &

Steampunk is a popular artistic movement that spans many genres, including fine art, music, performance, fashion, graphic design, and others; however, the inspiration for this steam-driven, industrial utopia filled with Victorian sights, textures, haberdashery, and otherworldly technology was originally born in ink from the masters of science-fiction literature.

Tales of adventure penned by the literary innovators of their time sparked steampunk to life. Mary Shelley's Frankenstein (1818) bridged the gap between ancient mythology and the imagination of science, thereby paving the way for the genre's earliest origins. A few years later, the innovative literary techniques in Edgar Allan Poe's horror stories emerged. Then Jules Verne began blending the styles of Poe and Shelley into his cornerstone works, Journey to the Center of the Earth (1864) and 20,000 Leagues ler the Sea (1869). In 1889, Mark Twain pioneered another

Under the Sea (1869). In 1889, Mark Twain pioneered another foundational notion of steampunk with the concept of time travel in A Connecticut Yankee in King Arthur's Court.

H. G. Wells is often linked to steampunk most notably for coining the term "time machine" in his work *The Time Machine* (1885), and he continued to perfect the science-fiction genre with *War of the Worlds* (1898). H. P. Lovecraft, a contemporary of the scientific minds associated with steampunk, designed

a sophisticated blend of multiple dimensions and apocalyptic settings in a fictional universe known as "Cthulhu Mythos,"

which he created in 1925. Today,
many of these works are taught in
high school and college literature courses.
In addition to the contributions of these
literary figures, the innovations, theories, and
ideas of such brilliant minds as Nikola Tesla,
Thomas Edison, Albert Einstein, and others also
influenced the evolution of steampunk. And many of
their ideas thought to be impossible eventually became
reality as science took center stage in the late 19th century.





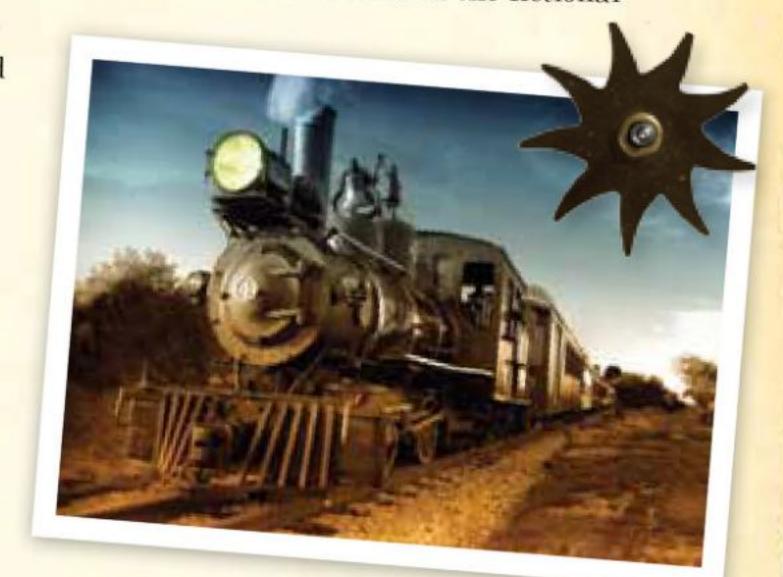


In 1987, science-fiction and horror author
K. W. Jeter coined the term "steampunk"
to define the works of his peers, authors Tim
Powers and James Blaylock. It's likely, however,
that Jeter couldn't have foreseen the impact of
naming the trend that would later grow into a
cultural movement. Today steampunk is most
prevalent in the art and role-playing communities.
Fans dressed in elaborate costumes and brandishing

antiquated-looking props gather at steampunk balls, conventions, and tea parties around the world. And many steampunk artists sketch ideas that they eventually develop into

inventions of modified technology, such as operable computers and phones. There are two common principles on which most steampunk artists and inventors tend to agree. The first is that steampunk embodies a "time that never happened." Anachronism does not exist in the fictional

world of the artist because technology can develop according to the creator's imagination. The second principle is that the materials used to create costumes, props, and other works of art are at least in part characteristic of the 19th century; therefore, steampunk artists often employ brass, copper, wood, and leather, along with industrial mechanisms, clocks, and assorted machine parts, to create their wondrous inventions. And just as the creators of steampunk envisioned fantastic technological advances beyond the limitations of their era, today's steampunk artists are forever dreaming up new ways to bend reality from a time that never was.



MEFINITION OF STEAMPUNK

CENTRAL TO THE DEFINITION OF STEAMPUNK IS A DISCUSSION OF THE WORDS "STEAM" AND "PUNK." THE WORD "STEAM" IS NOT A LITERAL DESCRIPTION. IN FACT, A LOT OF STEAMPUNK ART DOES NOT EVEN CONTAIN STEAM TECHNOLOGY. RATHER, "STEAM" REFERS TO THE ERA OF STEAM TECHNOLOGY—THE 19TH CENTURY. THE WORD "PUNK" INVOKES THE IDEA OF REBELLION (JUST AS IT DOES IN MUSIC) AGAINST THE MODERN MANUFACTURING AESTHETIC. BUT IT IS UP TO EACH ARTIST TO DETERMINE THE RATIO OF "STEAM" TO "PUNK" IN HIS OR HER WORK.

ARTISTIC INSPIRATION &

Steampunk is a burgeoning artistic movement with endless creative possibilities. The key to incorporating the style into your artwork is to understand its roots in the 19th century Industrial Revolution:

rife with new modes of transportation, scientific discoveries, medicines, weaponry, clothing, and manufacturing techniques—plenty from which to draw artistic inspiration.



When Mary Shelley began writing in the early 1800s, everyday people were beginning to manufacture with steam-powered machines and technology what they previously manufactured by hand in labor-intensive, time-consuming processes. Other innovations of the time included gas-lighting utilities, batteries, and the light bulb, which introduced electricity to the average household. On the communication front, the phonautograph—the first audio recording device—enabled people to send messages via telegram and telephone.

Transportation methods during this time included train, horse and carriage, boat, and even car. Over the course of

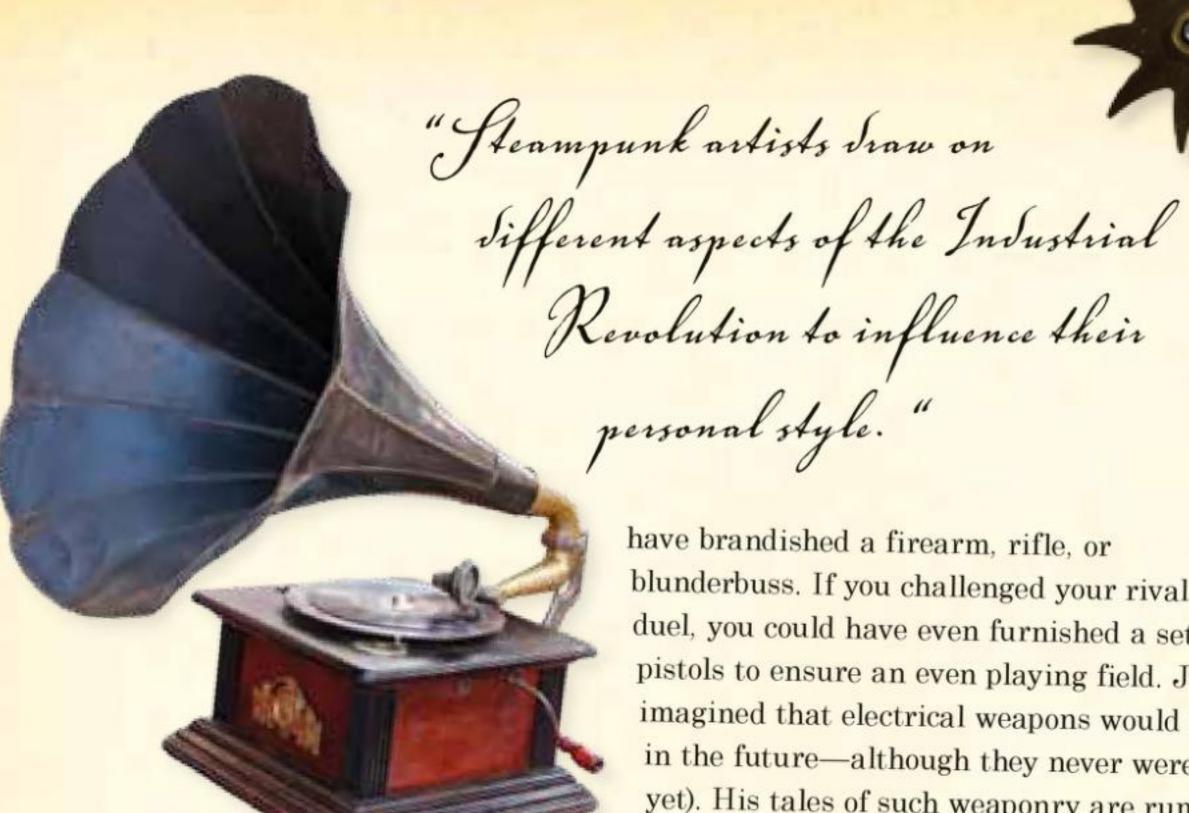
the Industrial Revolution, roadways, railways, and canals were constructed to transport

people and goods more efficiently.

If you found yourself in the midst of a disagreement during this time in history, you would have had several weapons at your disposal to wield against your opponent.

If you preferred a blade, you might have used a bayonet, a broad sword, or a cutlass. If you preferred something more sophisticated, you might





have brandished a firearm, rifle, or blunderbuss. If you challenged your rival to a duel, you could have even furnished a set of matching pistols to ensure an even playing field. Jules Verne imagined that electrical weapons would be abundant in the future—although they never were (at least not yet). His tales of such weaponry are rumored to have heavily influenced Nikola Tesla's later innovations.

Medical devices are another aspect of Victorian technology from which steampunk draws inspiration. Anesthesia was a new medical advancement, along with vaccines and basic medicines; however, other devices used for things like bloodletting, phrenology, and electro-therapy eventually fell out of favor as modern medicine evolved.

Victorian fashion is also a major inspiration for steampunk artists, especially women's clothing. Dresses were wide and required hoop skirts and bustles in the back, and women wore corsets to accentuate their shape. Men wore waist coasts, often with vests and cravats underneath, as well as top hats, which evoked

images of smoke stacks rising from factories.

Now that you've traveled to a time that actually happened, let's travel to the time that never was. Many steampunk artists draw on these different aspects of the Industrial Revolution to influence their personal style. Some pursue the "mad scientist" angle and create a world where Tesla coils and super computers coexist; others choose to fly dirigibles as an airship pirate. Some steampunk characters seem to come straight out of a retro-futurist American Wild West, complete with snake-oil salesmen. Anything that you can imagine can exist in your steampunk world as long as you consider the beauty and craftsmanship of your work along with its function.

STOOLS & MATERIALS &

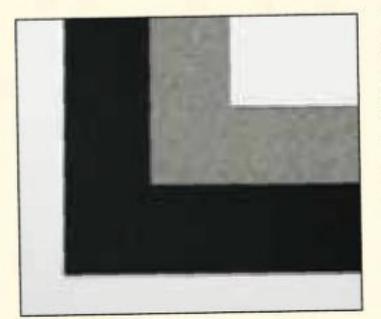
On the following pages, you'll learn about the tools and materials you will need to complete the projects in this book.

DRAWING SUPPLIES



SKETCH PADS

Sketch pads come in many shapes and sizes. Although most are not designed for finished artwork, they are necessary for working out your ideas.



PAPER Drawing paper is available in a range of surface textures: smooth grain (plate finish and hot pressed), medium grain (cold pressed), and rough to very rough. Rough paper is ideal when using charcoal; smooth paper is best for watercolor washes. The heavier the paper, the thicker its weight. Thick paper is better for graphite drawing because it can withstand erasing better than thin paper.



ERASERS There are several

erasers are useful for removing

types of art erasers. Plastic

hard pencil marks and large

molded into different shapes

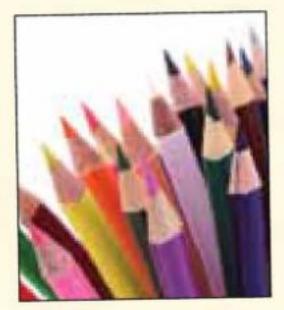
lifting tone from the paper.

areas. Kneaded erasers can be

and used to dab an area, gently

ELLIPSES GUIDE

An ellipses guide provides a useful template for drawing cylindrical volume at varying angles.



COLORED

Colored pencils come in wax-based, oil based, and water-soluble versions. Oil-based pencils complement wax pencils nicely. Water-soluble pencils react to water in a manner similar to watercolor. In addition to creating finished art, colored pencils are useful for enhancing small details.



ART MARKERS

Alcohol-based art markers offer a nice finish when applied to photocopies, but make sure that the photocopy toner is dry before applying color. Markers and colored pencils may also be used in combination with paints to further enhance and accent your drawings.

OTHER DRAWING ESSENTIALS

Other tools you may need for drawing include a ruler or T-square for marking the perimeter of your drawing area; artist's tape for attaching your drawing paper to a table or board; pencil sharpeners; blending stumps, or "tortillons," to blend or soften small areas; a utility knife for cutting drawing boards; and an open, well-lighted work station.

DRAWING PENCILS

ARTIST'S PENCILS CONTAIN A GRAPHITE CENTER AND ARE SORTED BY HARDNESS (GRADE) FROM VERY SOFT (9B) TO VERY HARD (9H). A GOOD STARTER SET INCLUDES A 6B, 4B, 2B, HB, B, 2H, 4H, AND 6H. PENCIL GRADE IS NOT STANDARDIZED, SO YOUR FIRST SET SHOULD BE FROM THE SAME BRAND FOR CONSISTENCY.

- VERY HARD: 5H 9H
- HARD: 3H 4H
- . MEDIUM HARD: H 2H
- . MEDIUM: HB F
- . MEDIUM SOFT: B -2B
- SOFT: 3B 4B
- . VERY SOFT: 5B 9B

PAINTING SUPPLIES



SUPPORTS "Supports" refer to the variety of available painting surfaces. Ready-made canvases come in multiple sizes and are either stretched and stapled on a frame or glued over a board. Watercolor and illustration boards work well with acrylic paint, providing a smooth surface. Experiment with different types of supports to see which best suits the needs of your painting style.

ACRYLIC PAINT

Acrylic paint is available in two grades. The highestquality paints are labeled "artist grade." They contain more pigment and produce truer colors than the less expensive "student grade" paints, which contain more filler. It's a good idea to have two jars of water: one for diluting your paints and one for rinsing your brushes. It's important to keep your acrylic paints moist because

they dry quickly. A spray bottle filled with water will help keep the paints on your palette fresh. You can also to keep paint moist by adding acrylic retarder. Do not use more than a 15% solution, as too much retarder can cause uneven drying. There are a variety of acrylic mediums on the market that can help you achieve a range of effects. To create thinner, more translucent washes, you can use a glazing medium or even water. There are also thickening, dispersing, and texturizing mediums available.

BRUSH BASICS

Brushes are grouped by hair type (soft or stiff and natural or synthetic), style (round, flat, or filbert), and size. Whether you choose natural or synthetic will depend on your style and on the investment you wish to make. Synthetic-hair brushes are less expensive, but both types can produce quality work. Among the brush styles, large and medium flats are good for painting washes and filling in large areas. Smaller flats are necessary for detail work; drybrushing; and making clean, sharp edges. Larger rounds and filberts are useful for sketching outlines and general painting, and the smaller sizes are essential for adding intricate details.

CARING FOR YOUR BRUSHES

NEVER LET PAINT DRY IN YOUR BRUSHES. WHEN
YOU ARE FINISHED PAINTING FOR THE DAY, WASH
BRUSHES IN LUKEWARM WATER IF USING ACRYLIC
PAINT OR TURPENTINE IF USING OIL. THEN RESHAPE THE BRISTLES AND LAY THEM FLAT OR HANG
THEM TO DRY. DO NOT STORE BRUSHES BRISTLESIDE DOWN.



OTHER PAINTING ESSENTIALS

Other tools you may need for painting include paper towels, lint-free rags, cotton swabs, and a paint palette.

DRAWING TECHNIQUES &

By using various hand positions and shading techniques, you can produce a world of different stroke shapes, lengths, widths, and weights in pencil. It's also important to notice your pencil point. The shape of the tip is as essential as the type of lead in the pencil. Experiment with different hand positions and techniques to see what your pencil can do.



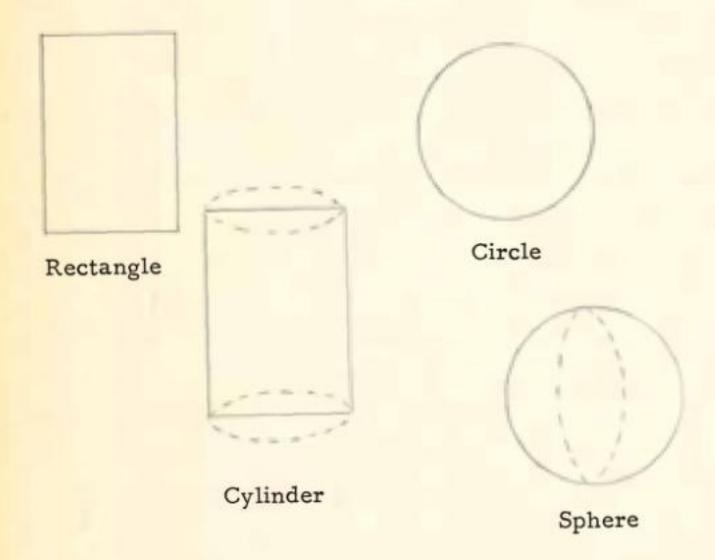
WRITING POSITION

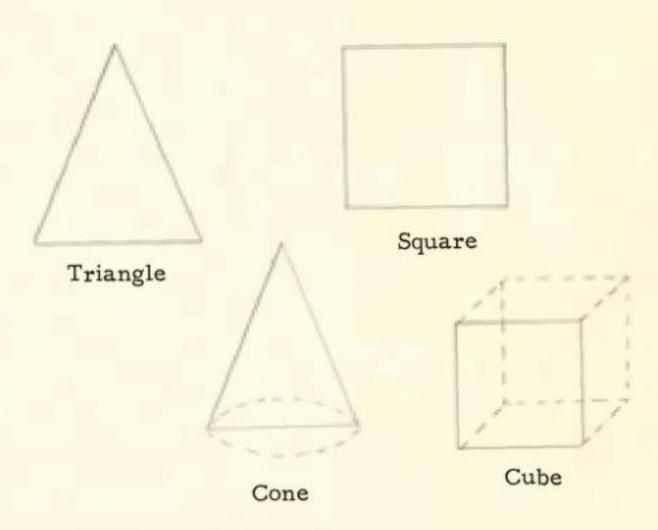
This familiar position provides the most control. The accurate, precise lines that result are perfect for rendering fine details and accents. When drawing in this position, place a clean sheet of paper under your hand to prevent smudging.



UNDERHAND POSITION

This position allows for a freer stroke with more arm movement, much like a painting motion. To draw in this position, hold your hand over the pencil and grasp it between the thumb and index finger. Allow your other fingers to rest alongside the pencil. You can create beautiful shading effects from this position.

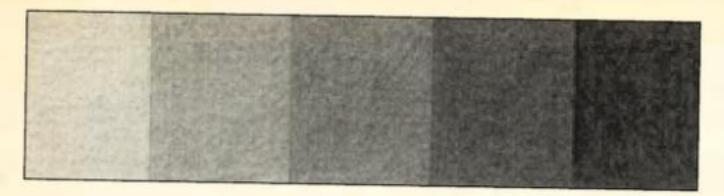


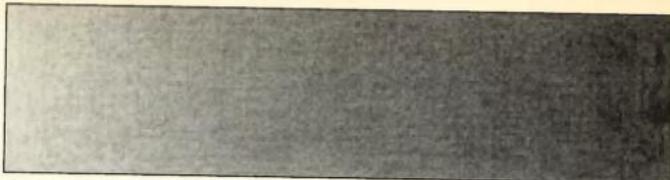


MOVING FROM SHAPE TO FORM

The first step in creating an object is establishing a line drawing or outline to delineate its flat area. This is known as "shape."

The four basic shapes, the rectangle, circle, triangle, and square, can appear to be three-dimensional by adding a few carefully placed lines that suggest additional planes. By adding ellipses to the rectangle, circle, and triangle, you give the shapes dimension and begin to produce a form within space. The shapes become a cylinder, a sphere, and a cone. Add a second square above and to the side of the first square, connect them with parallel lines, and you create a cube.



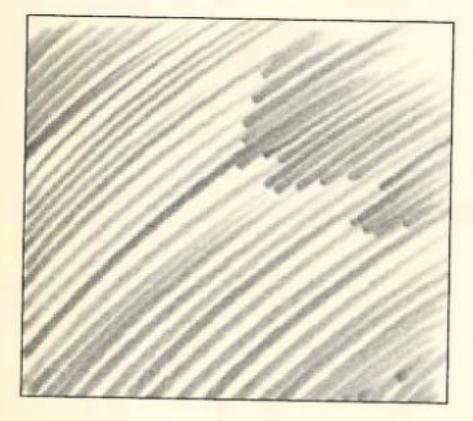


CREATING VALUE SCALES

Artists use scales to measure changes in value and to gauge how dark to make dark values and how light to make highlights. Value scales also serve as a guide for transitioning from lighter to darker shades. Making your own value scale will help familiarize you with the different variations in value. Work from light to dark, adding more and more tone for successively darker values (as shown above left). Then create a blended value scale by using a blending stump to blend each value into its neighboring value from light to dark to create a gradation (as shown above right).

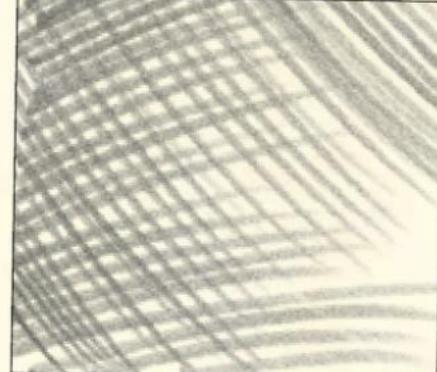
BASIC TECHNIQUES

The basic pencil techniques below can help you learn to render everything from people to machines. Whatever techniques you choose, remember to shade evenly in a back-and-forth motion over the same area, varying the spot where the pencil point changes direction.



HATCHING

This technique consists of a series of parallel strokes. The closer the strokes, the darker the tone will be.



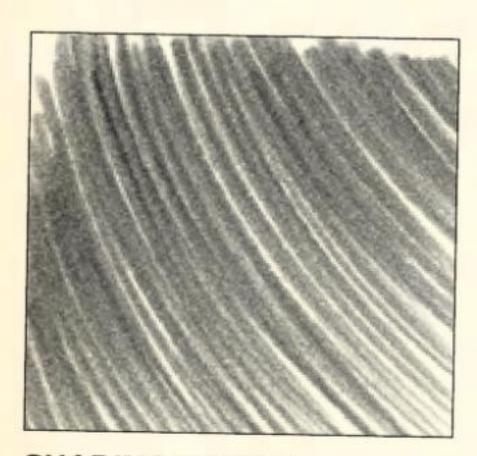
CROSSHATCHING

For darker shading, layer parallel strokes on top of one another at varying angles.



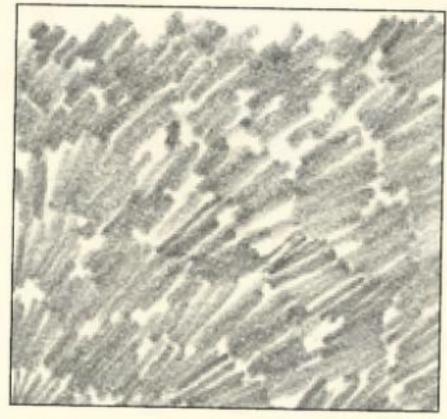
GRADATING

To create gradated values (from dark to light), apply heavy pressure with the side of your pencil, gradually lightening as you go.



SHADING DARKLY

Apply heavy pressure to the pencil to create dark, linear areas of shading.



SHADING WITH TEXTURE

For a mottled texture, use the side of the pencil tip to apply small, uneven strokes.



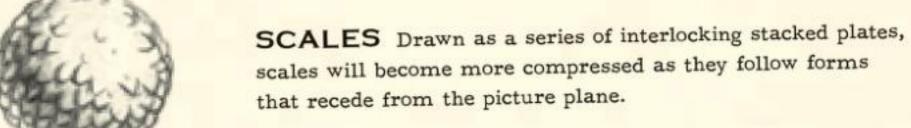
BLENDING

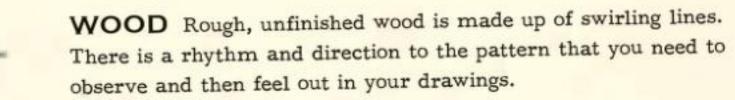
To smooth out the transitions between strokes, gently rub the lines with a blending tool or your finger.

CREATING TEXTURES &



LONG HAIR Long hair has a direction and a flow to its texture. Its patterns depend on the weight of the strands and stress points. Long hair gathers into smaller forms. Treat each smaller form as part of the larger form. Remember that each form will be affected by the same global light source.





SHORT, FINE HAIR Starting at the point closest to the viewer, the hairs point toward the picture plane and can be indicated as dots. Moving out and into shadowed areas, the marks become longer and more dense.

METAL Polished metal is a mirrored surface and reflects a distorted image of whatever is around it. Metal can range from slightly dull (as shown here) to sharp and mirror-like. The shapes reflected will be abstract with hard edges, and the reflected light will be very bright.

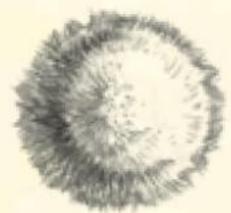
FEATHERS AND LEAVES As with short hair, stiff feathers or leaves are long and a bit thick. The forms closest to the viewer are compressed; those farther away from the viewer are longer.

CLOTH The texture of cloth will depend on the thickness and stiffness of the material. Thinner materials will have more wrinkles that bunch and conform to shapes more perfectly. As wrinkles move around a form and away from the picture plane, they compress and become more dense.

ROPE The series of braided cords that make up rope create a pattern that compresses as it wraps around a surface and moves away from the picture plane.











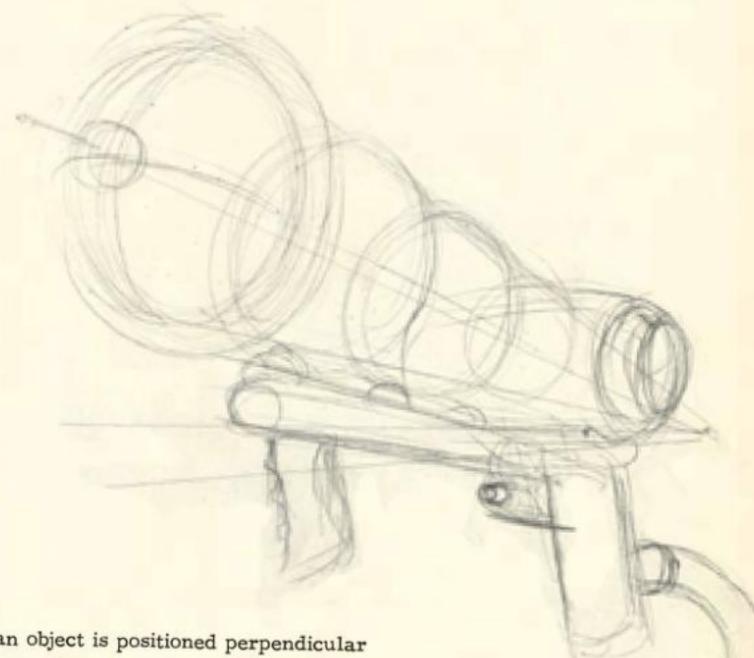




PERSPECTIVE BASICS &

Perspective provides the visual cues that help create the illusion of depth and distance in a drawing. Perspective can be broken down into two major types: linear and atmospheric. In linear perspective, objects appear smaller in scale as they recede from the picture plane. In atmospheric perspective, objects that are farther away have fewer details and appear bluer and cooler in color, whereas objects closer to the viewer are

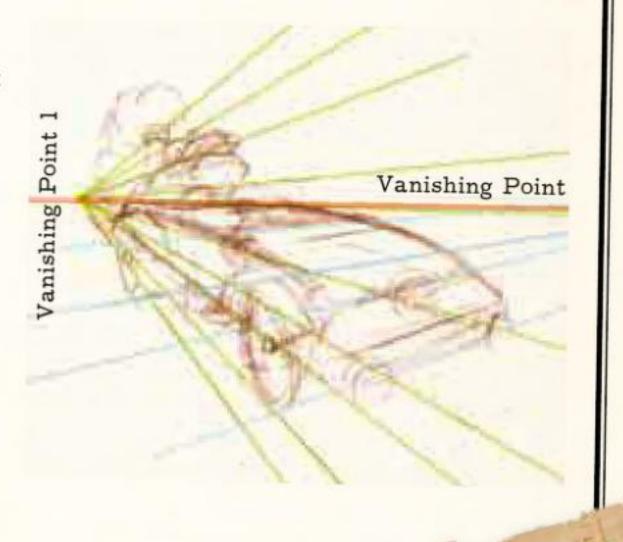
more detailed and warmer in color. With linear perspective, the horizon line (an imaginary horizontal line where receding lines meet) can be the actual horizon or a line at eye level. Having an idea of the viewer's eye level is helpful so you can apply perspective to the forms. When drawing figures, ellipses are especially useful in establishing and enforcing the direction and topography of forms.



FORESHORTENING When the center axis of an object is positioned perpendicular to the picture plane, the forms that make up the object, such as the ellipses in the arm above, appear to overlap and increase in size, meaning that they are foreshortened. Understanding the basic forms and the ellipses that describe the surface will help you understand and draw foreshortened forms.

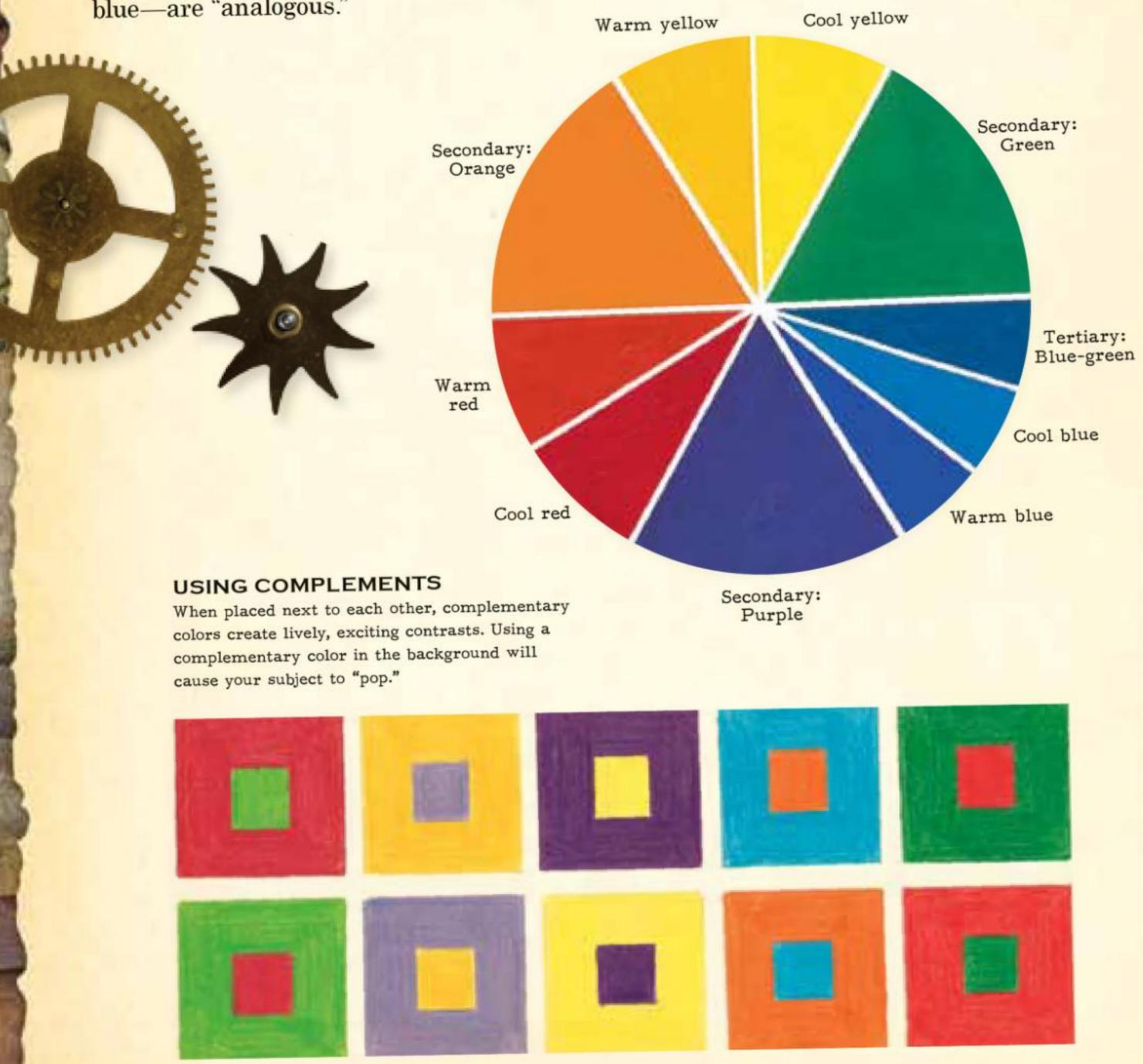
EVITOERRET FULOR-OWF

YOU CAN USE TWO-POINT PERSPECTIVE TO GIVE AN OBJECT REALISTIC DIMENSION AND DEPTH. SET UP YOUR DRAWING WITH A HORIZON LINE: A DOMINANT VANISHING POINT ON THE LEFT SIDE OF DRAWING SURFACE AND A SECONDARY VANISHING POINT OUTSIDE THE LINE OF SIGHT, BUT ON THE SAME AXIS AS THE HORIZON LINE. DRAW RADIATING PERSPECTIVE LINES THAT INTERSECT AT THE VANISHING POINT. THESE LINES WILL DEFINE THE PLACEMENT OF VARIOUS ELEMENTS. IN THIS EXAMPLE, THE DOMINANT VANISHING POINT IS ON THE SAME AXIS AS THIS SPEEDSTER'S DIRECTION OF TRAVEL. A DEEP PERSPECTIVE ESTABLISHES A SENSE OF SPEED AND POWER. FOLLOWING THESE SIMPLE GUIDELINES WILL HELP YOU TO CREATE CONVINCING RENDERINGS OF EVERYTHING FROM STEAM-POWERED RACE CARS TO VAST CITYSCAPES.



COLOR THEORY

The color wheel demonstrates the relationships among colors. Primary colors—red, yellow, and blue—are the basis for all other colors on the wheel. When two primary colors are combined, they produce a secondary color—green, orange, or purple. When a primary and a secondary color are mixed, they produce a tertiary color, such as blue-green or redorange. Colors directly opposite of one another on the wheel—like yellow and purple—are "complements." Adjacent groups of color on the color wheel—such as green, blue-green, and blue—are "analogous."





VALUE SCALES

Value (the lightness or darkness of a color) and its variations are key to creating the illusion of dimension. You can create different values of color using a basic palette. Adding white to a color results in a tint; adding black to a color produces a shade. The top row represents shading, where black is applied to pure color (yellow). In contrast, the bottom row shows tinting, where white is added to pure color (yellow-green).

MIXING NEUTRALS

Complementary colors make the most natural-looking neutrals when mixed together. Mixing three primary colors will also result in lively, colorful neutrals.

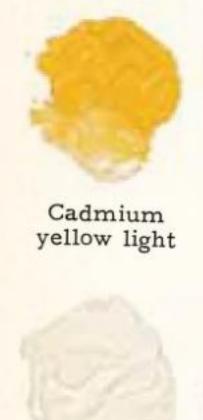
Blue





CHOOSING TOUR COLORS

THESE 14 COLORS, INCLUDING WHITE, MAKE A GOOD PALETTE FOR BEGINNERS. FROM THEM, YOU CAN MIX JUST ABOUT ANY COLOR YOU LIKE.



Titanium

white



Yellow

ochre





sienna

Cadmium

red medium



Burnt

sienna

Naphthol

crimson



Burnt

umber

Acra

violet



Brilliant

blue





Phthalo

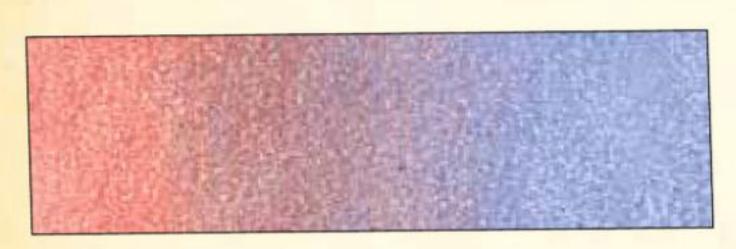
blue

Turquoise green

Phthalo green

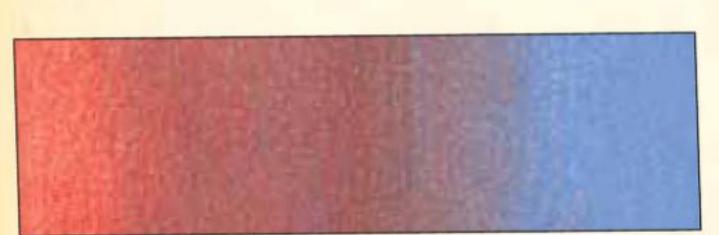
COLORED PENCIL STECHNIQUES

Painters mix their colors on a palette before applying them to the canvas. With colored pencil, mixing and blending occur directly on the paper. With layering, you can either build up color or create new hues. To deepen a color, layer more of the same over it; to dull a color, use its complement. You can also blend colors by burnishing with a light pencil or using a colorless blender.



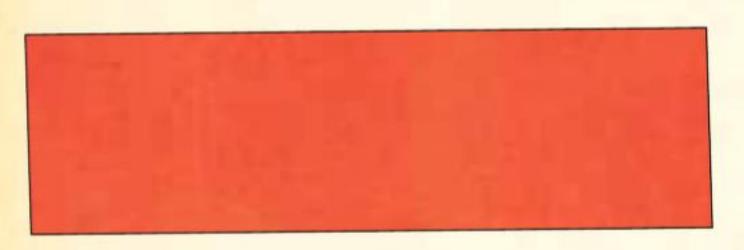
LAYERING

Layer one color directly over the other to blend them together. This can be done with as many colors as you think necessary to achieve the color or value desired. The keys to this technique are to use light pressure, work with a sharp pencil point, and apply each layer smoothly.



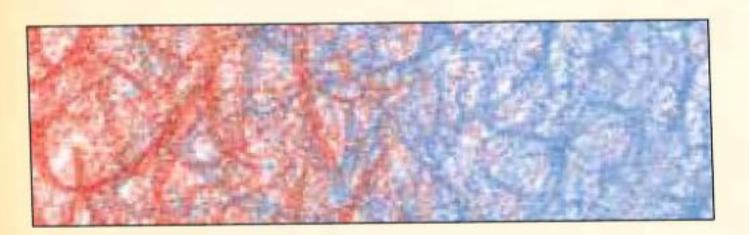
BURNISHING WITH A COLORLESS BLENDER

Burnishing is a technique that requires heavy pressure to meld two or more colors together for a shiny, smooth look. Using a colorless blender tends to darken the colors.



BURNISHING LIGHT OVER DARK

You can burnish using light or white pencils. Place the darker color first; if you place a dark color over a lighter color, the dark color will overcome the lighter color, and no real blending will occur.

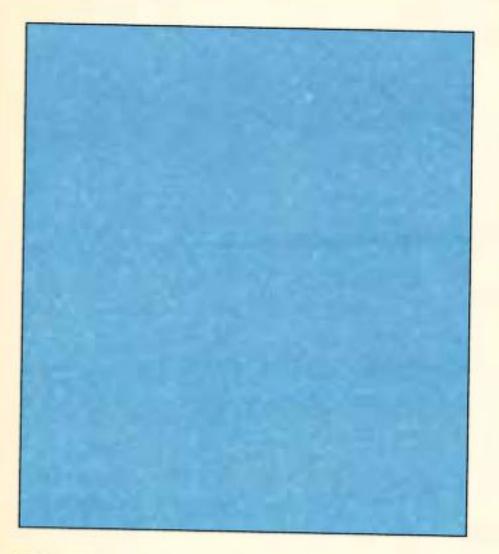


OPTICAL MIXING

In this method, the viewer's eye sees two colors placed next to each other as being blended. Hatch, stipple, or use circular strokes to apply the color, allowing the individual pencil marks to look like tiny pieces of thread. When viewed together, the lines form a tapestry of color that the eye interprets as a solid mass. This is a lively and fresh method of blending that will captivate your audience.

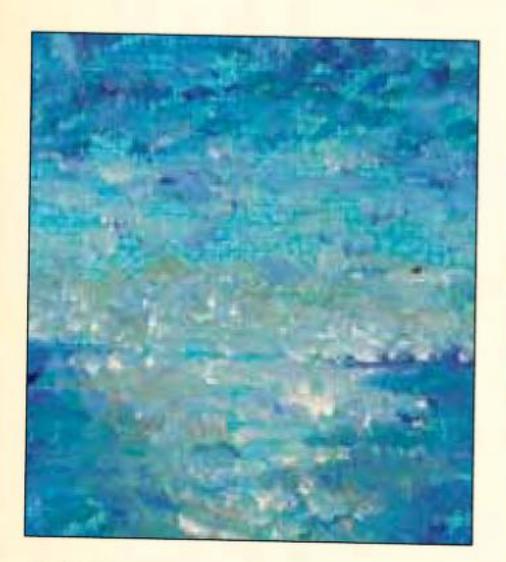
PAINTING TECHNIQUES &

The following painting techniques were created using acrylic paint, but you can create similar effects with oil and watercolor.



FLAT WASH

This thin mixture of acrylic paint has been diluted with water (use solvents to dilute oil paint). Lightly sweep overlapping, horizontal strokes across the support.



STIPPLING

For reflections or highlights, use a stiffbristle brush and hold it very straight, bristle-side down. Then dab on the color quickly, creating a series of small dots.



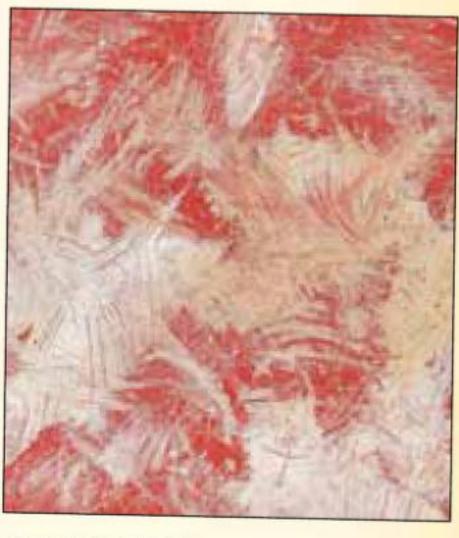
GRADED WASH

Add more water or solvent and less pigment as you work your way down. Graded washes are great for creating interesting backgrounds.



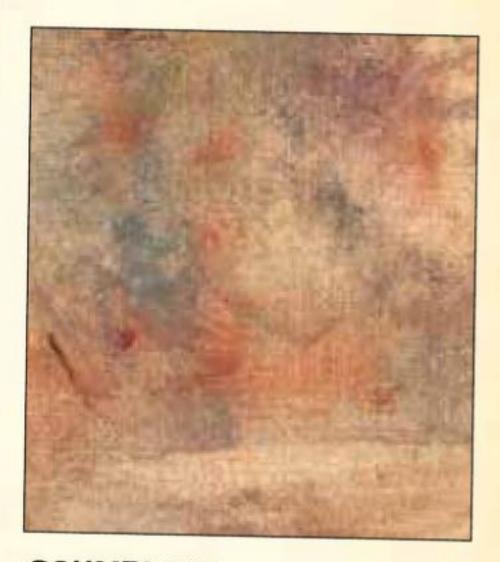
BLENDING

Lay in the base colors, and lightly stroke the brush back and forth to pull the colors together. Don't overwork the area, as overblending can muddy up the color and erase the contrasts in value.



DRYBRUSH

Use a worn flat or fan brush loaded with thick paint, wipe it on a paper towel to remove moisture, and then apply it to the surface using quick, light, irregular strokes.



SCUMBLING

Lightly brush semi-opaque color over dry paint, allowing the underlying colors to show through.



DIGITAL ILLUSTRATION &

Digital illustration can result in highly detailed dynamic artwork. Unlike drawing or painting, digital illustration allows you to make dramatic enhancements with just few clicks of a mouse. It helps to have an understanding of the basic tools and functions of image-editing software (this book employs Photoshop®).

COMPUTER SYSTEM

To embark on your journey in digital illustration, you'll need a computer system, a scanner, and image-editing software. In the setup at right, you'll see that you can configure multiple monitors for one computer system. This can help you spread out your work; you can bleed the monitors so that your image crosses over onto multiple screens, allowing you to see much more of the image at once. You can also use the multiple monitors to hold various control panels, so you aren't constantly minimizing windows to create room on the screen. Although it's ideal to work with several monitors, all you really need is one.





INITIAL SETTINGS

The digital projects in this book use basic Photoshop's settings. First, scan the completed drawing and open the image. Set the "Mode" in the "Image" dropdown menu to "RGB." Set the image to "CMYK" under "Proof Setup" in the "View" dropdown menu. Set the colormixing palette to CMYK. Create a new layer and name it "color fill." Set the new layer to the "Multiply" mode.

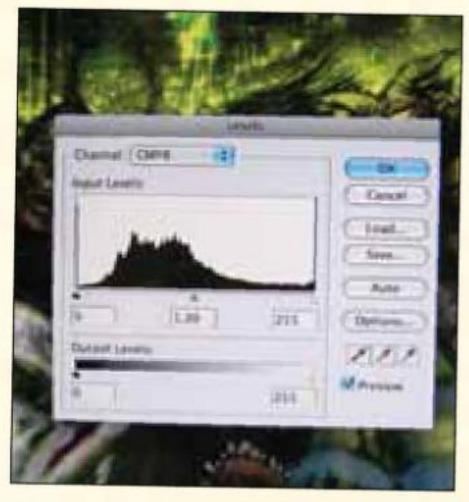
IMAGE-EDITING SOFTWARE-

These basic Photoshop functions will help you complete the digital projects in this book.



IMAGE RESOLUTION

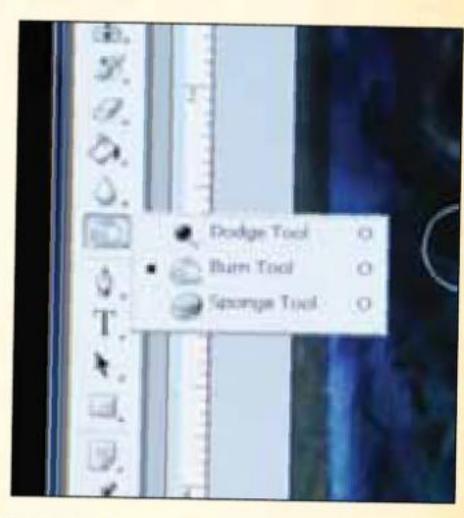
When scanning your drawing or painting into Photoshop, it's important to scan it at 300 dpi (dots per inch) and 100% the size of the original. A higher dpi carries more pixel information and determines the quality at which your image will print. However, if you intend for the image to be a piece of digital art only, you can set the dpi as low as 72. View the dpi and size under the menu Image > Image Size.



LEVELS

With this tool (under the menu Image

Adjustments), you can change the
brightness, contrast, and range of values
within an image. The black, midtone, and
white of the image are represented by the
three markers along the bottom of the
graph. Slide these markers horizontally.
Moving the black marker right will
darken the overall image, moving the
white marker left will lighten the overall
image, and sliding the midtone marker
left or right will bring the midtones
darker or lighter, respectively.



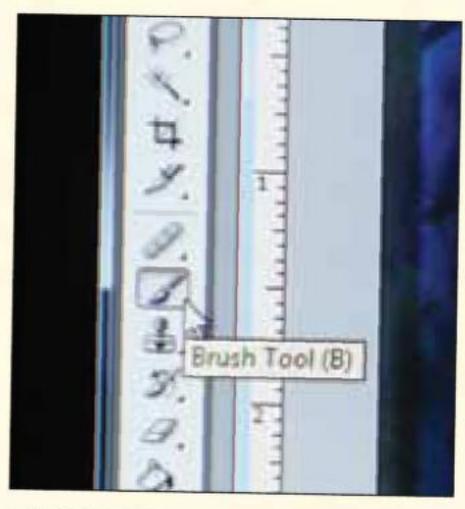
DODGE AND BURN TOOLS

The dodge and burn tools, photography terms borrowed from the old dark room, are also found on the basic tool bar. Dodge is synonymous with lighten; burn is synonymous with darken. On the settings bar under "range," you can select highlights, midtones, or shadows. Select which of the three you'd like to dodge or burn, and the tool will only affect these areas. Adjust the width and exposure (or strength) as desired.



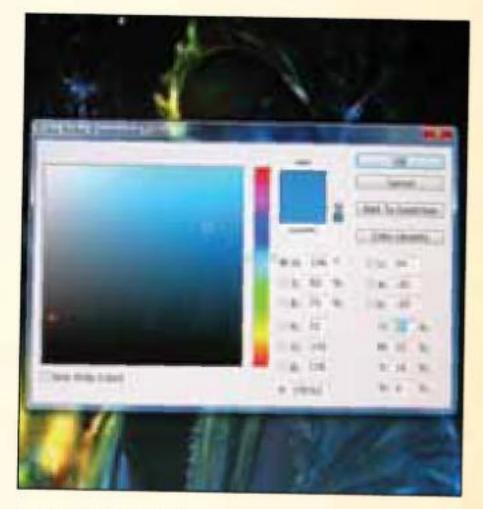
ERASER TOOL

The eraser tool is found in the basic tool bar. When working on a background layer, the tool removes pixels to reveal a white background. You can adjust the diameter and opacity of the brush to control the width and strength of the eraser.



PAINTBRUSH TOOL

The paintbrush tool allows you to apply layers of color to your canvas. Like the eraser, dodge, and burn tools, you can adjust the diameter and opacity of the brush to control the width and strength of your strokes.



COLOR PICKER

Choose the color of your "paint" in the color picker window. Select your hue by clicking within the vertical color bar; then move the circular cursor around the box to change the color's tone.



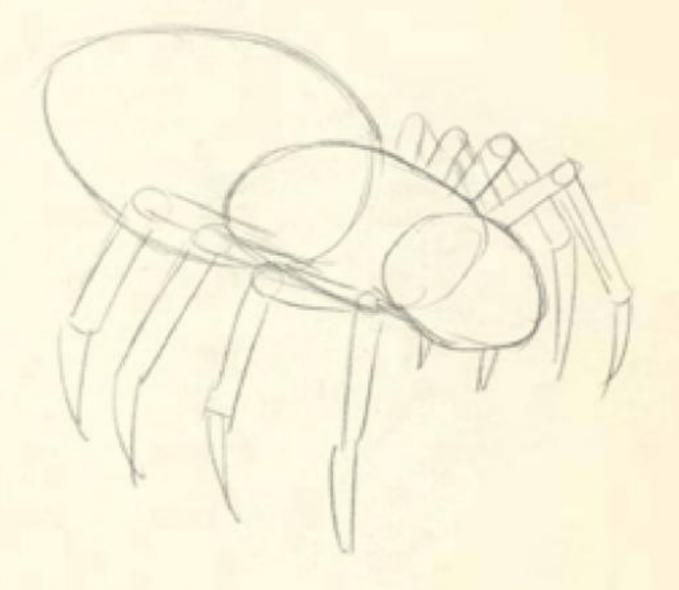


SPIDER &

With an interior similar to that of a stopwatch and an exterior plated in gold, this tiny metallic spider can sneak up on any target it's programmed to entrap. But while admiring the mechanical beauty of this dark little creature, take care not to become tangled in its web.

STEP ONE

This drawing closely mimics an arachnid's anatomy. Keeping this in mind, use a 2H pencil to rough in its basic shape; then sketch in eight legs.



Draw "windows" the

Draw "windows" that reveal the spider's inner workings. Begin to rough in finely meshed gears and cogs. Note the grappling hooks mounted on the rear of the abdomen. These give the contraption additional spider-like abilities (think "shooting webs").



STEP THREE

Using a 2H pencil, continue to refine the mechanical details. Then add holes to the legs, as well as small pistons. Add pressure valves to the top of the abdomen.





INFOLODEON &

The computer mod is a well-known steampunk gadget. Typically, the computer and its related accessories, such as web cams, keyboards, USB drives, and the mouse, are adorned with lavish wood accents, brass antiquities, and rivet-bound leather. These designs start with pencil and paper, but for those with the drive to create and the gigabyte to succeed, designing your own technological system is no more than a click away.

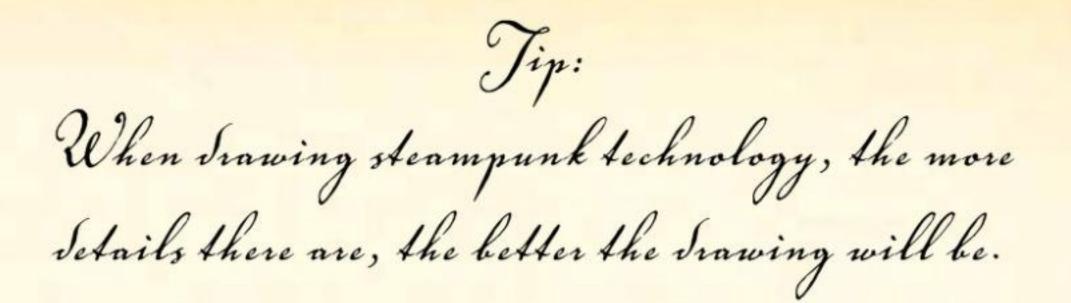
STEP ONE

I call this steampunk computer the "Infolodeon": a combination of the words "information" and "odeon".

To begin its construction, sketch in flattened perspective lines as guides, and then use a 2H pencil to block in the outline of a traditional desktop computer, as well as a keyboard, steam pipe, and mouse. This illustration demonstrates two-point perspective; that is, the two points are outside the image area. (See "Perspective Basics," page 17.)

STEP TWO

The Infolodeon does its
computing by mechanical
means, so its CPU will be a
cluster of gears and switches
that tally results or encode
information for display. Start to
sketch in the "nuts and bolts"
of this data machine.



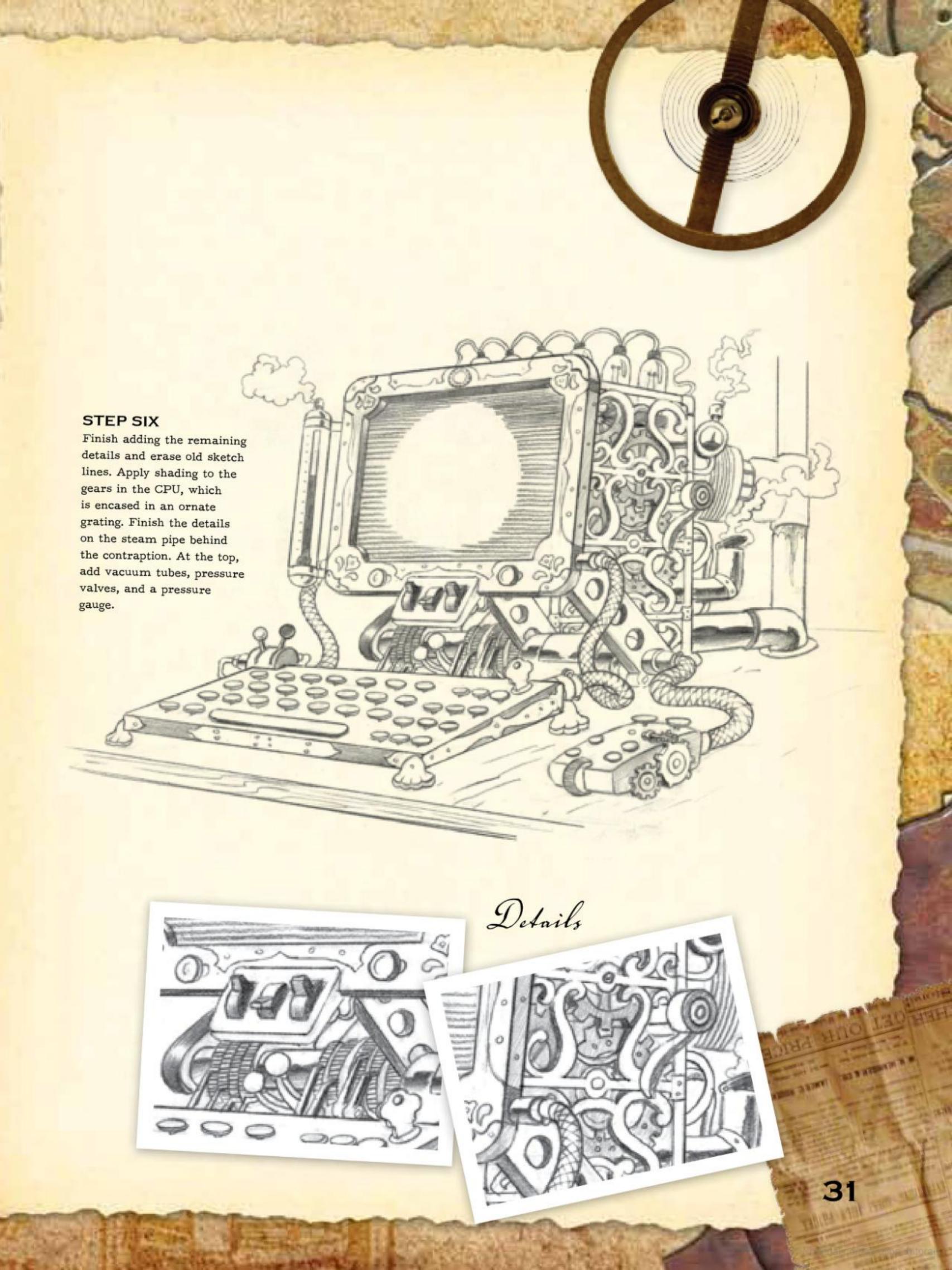
STEP THREE

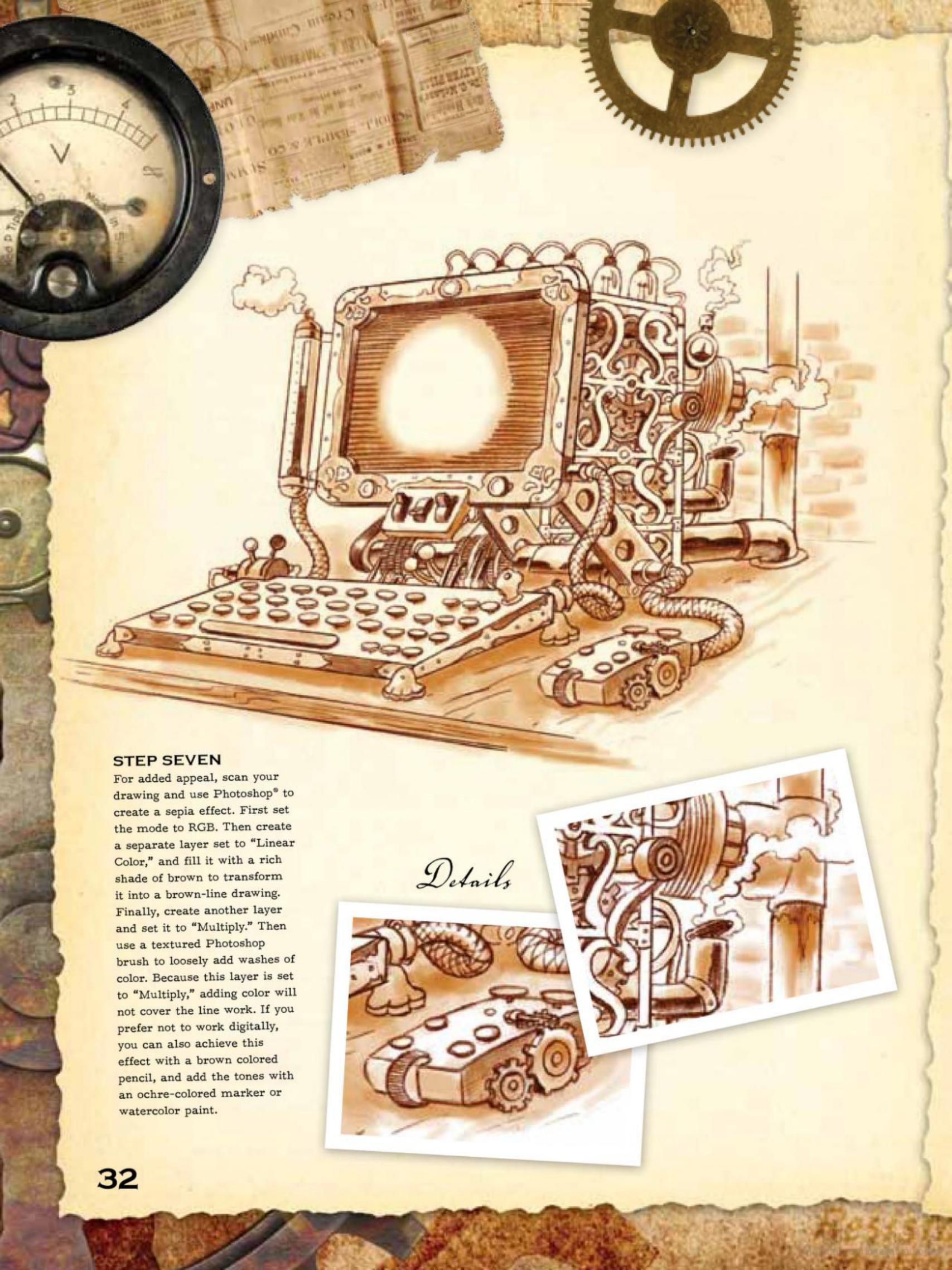
Continue to build up detail using a 2H pencil. Define the gear teeth; then add belts and brackets to the monitor, keyboard buttons, levers, as well as an old-fashioned turnkey to switch the device on and off. When drawing steampunk technology, the more details there are, the better the drawing will be.

STEP FOUR

Begin tightening up the drawing with an HB or 2B pencil. Use a straight edge for the lines, which will also give the machine a solid appearance. Use a kneaded eraser to remove any distracting sketch lines. Note that I've added thicker edges to the keys and the large toggle switches on the monitor.







STRAM COMPUTER

WITH THE EMERGENCE OF MODERN STEAMPUNK GADGETRY CAME THE PRE-EMINENCE OF THE MODIFIED COMPUTER. JAKE VON SLATT, ONE OF THE EARLY ARTISTS WHO FIRST MASTERED THIS UNUSUAL FORM, CREATED THE VICTORIAN ALL IN ONE COMPUTER PICTURED HERE. HE CONSTRUCTED THIS FULLY OPERATIONAL PIECE FROM AN LCD MONITOR AND RECYCLED ITEMS, INCLUDING CURIOSITY SHELVES, A CHINA CABINET, AND BRASS RODS.

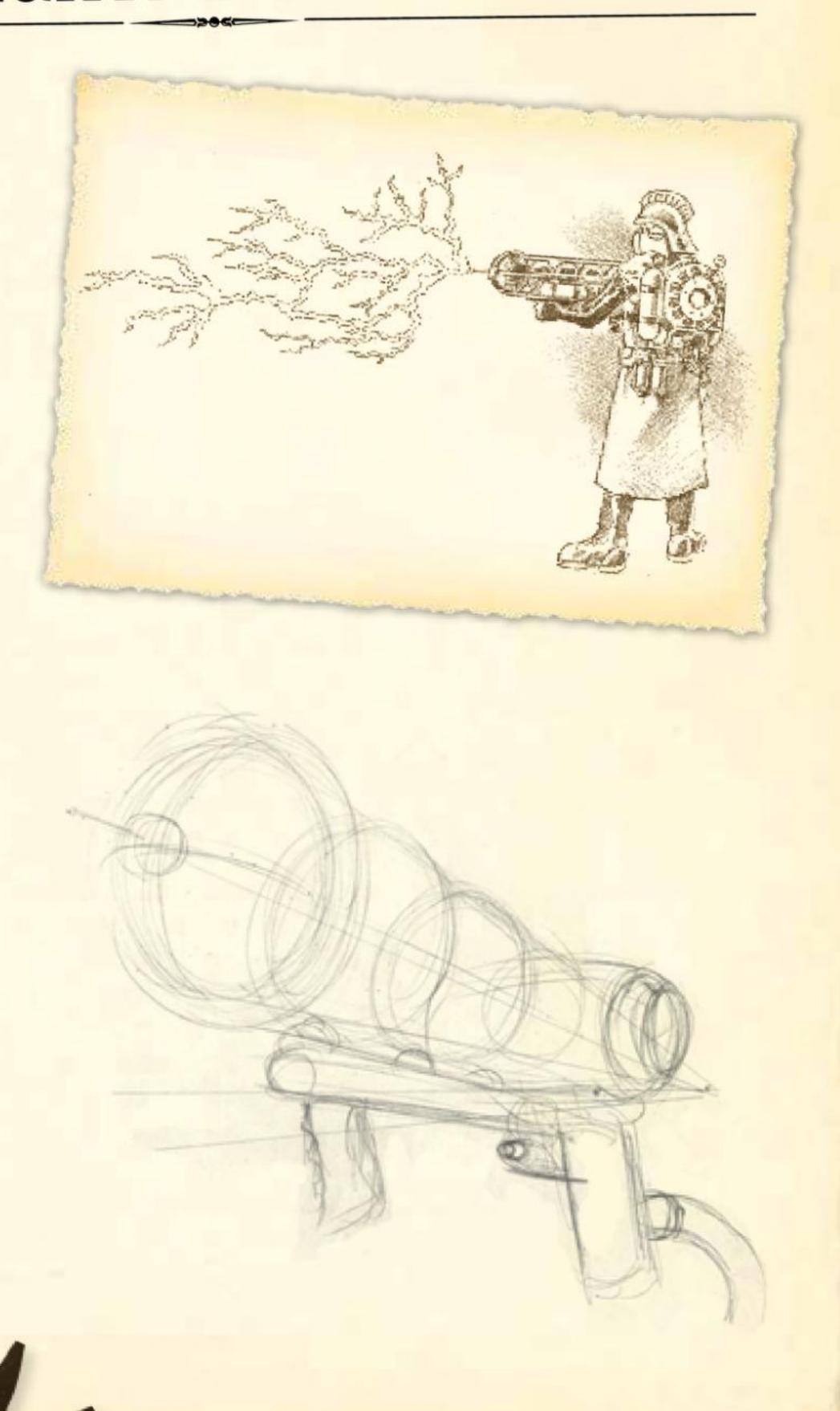


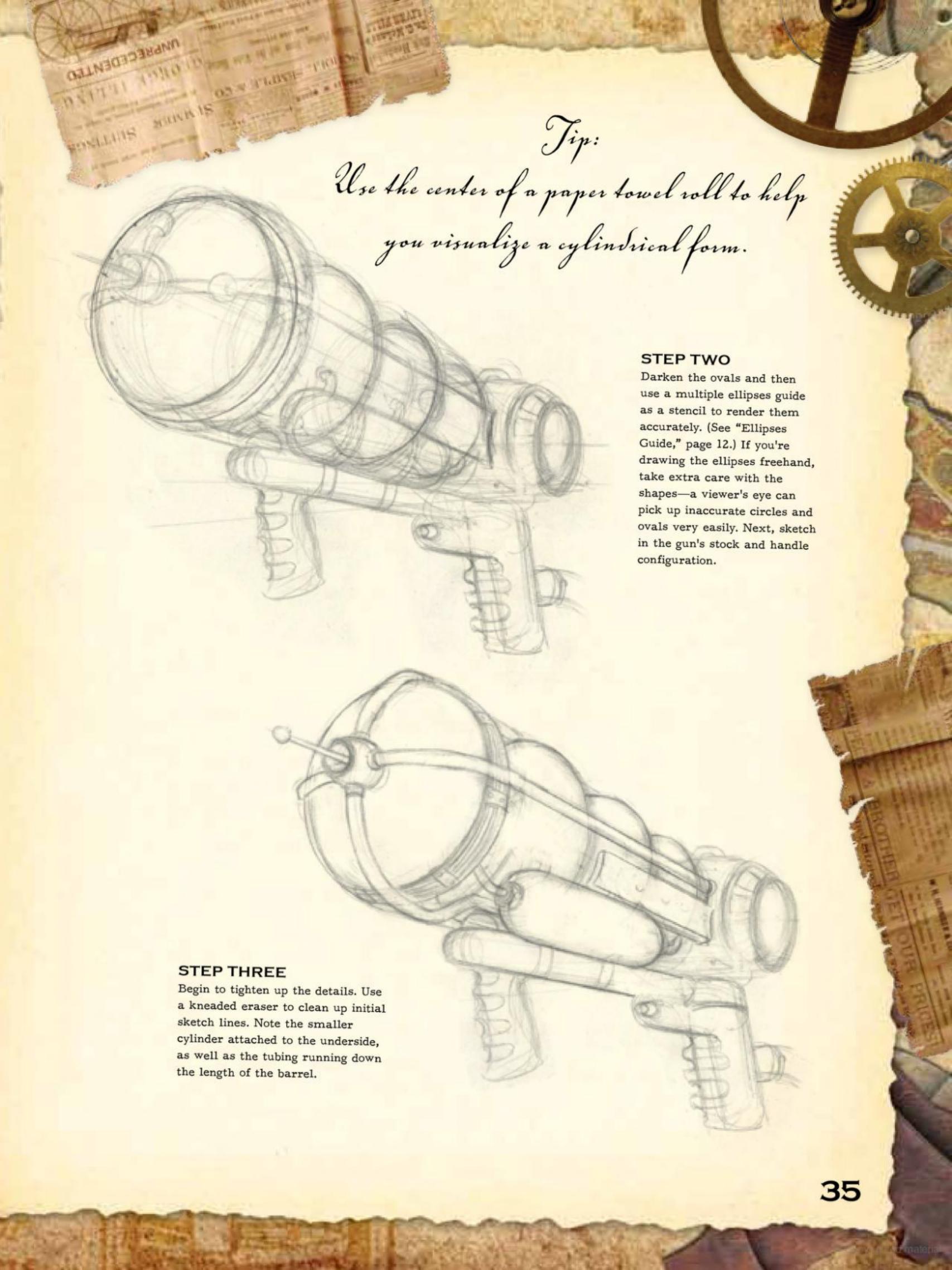
& LIGHTNING GUN &

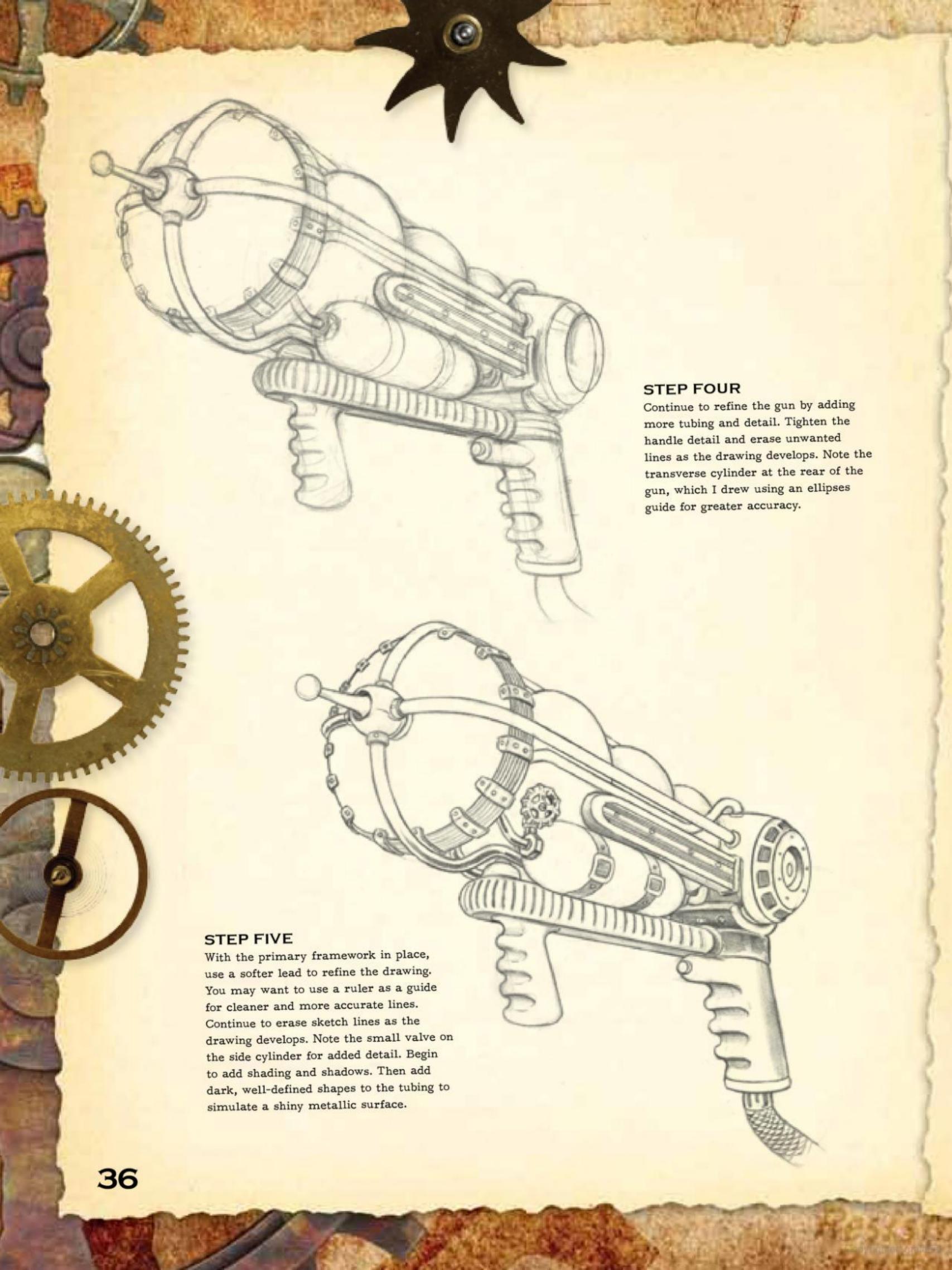
Ahh...there's nothing like the smell of the ozone as an arc of lighting pierces the night sky and takes down an air kraken (a giant flying squid-like creature). The destructive power of the re-imagined lightning gun reaches back to the stories of Jules Verne, particularly in the novel 20,000 Leagues Under the Sea-it was Captain Nemo's weapon of choice. Electricalpowered weapons are around today in the form of stun guns and cattle prods, but they don't come close to the imaginary weapons of the steampunk world, such as a lightning gun, which can be rendered to appear dangerous and diabolical.

STEP ONE

This design is based on "Tesla coils," created by the famous inventor Nikola Tesla. Tesla coils consisted of stacked ellipses, which also make up the barrel of the gun. With a 2H pencil, start by drawing several lines radiating from the vanishing point. (See "Perspective Basics," page 17.) Sketch the gun's form lightly, working out the basic angles.









THE CLERIC WEAPON

THE CLERIC WEAPON, WHICH WAS
CREATED FOR THE HERO IN THE FILM
CLERIC, IS MOLDED FROM A NERF
MAVERICK AND A DOUBLE-BARREL SHOT
GUN, AND IT HOLDS SIX CARTRIDGES OF
"HARNESSED ELECTRICITY."



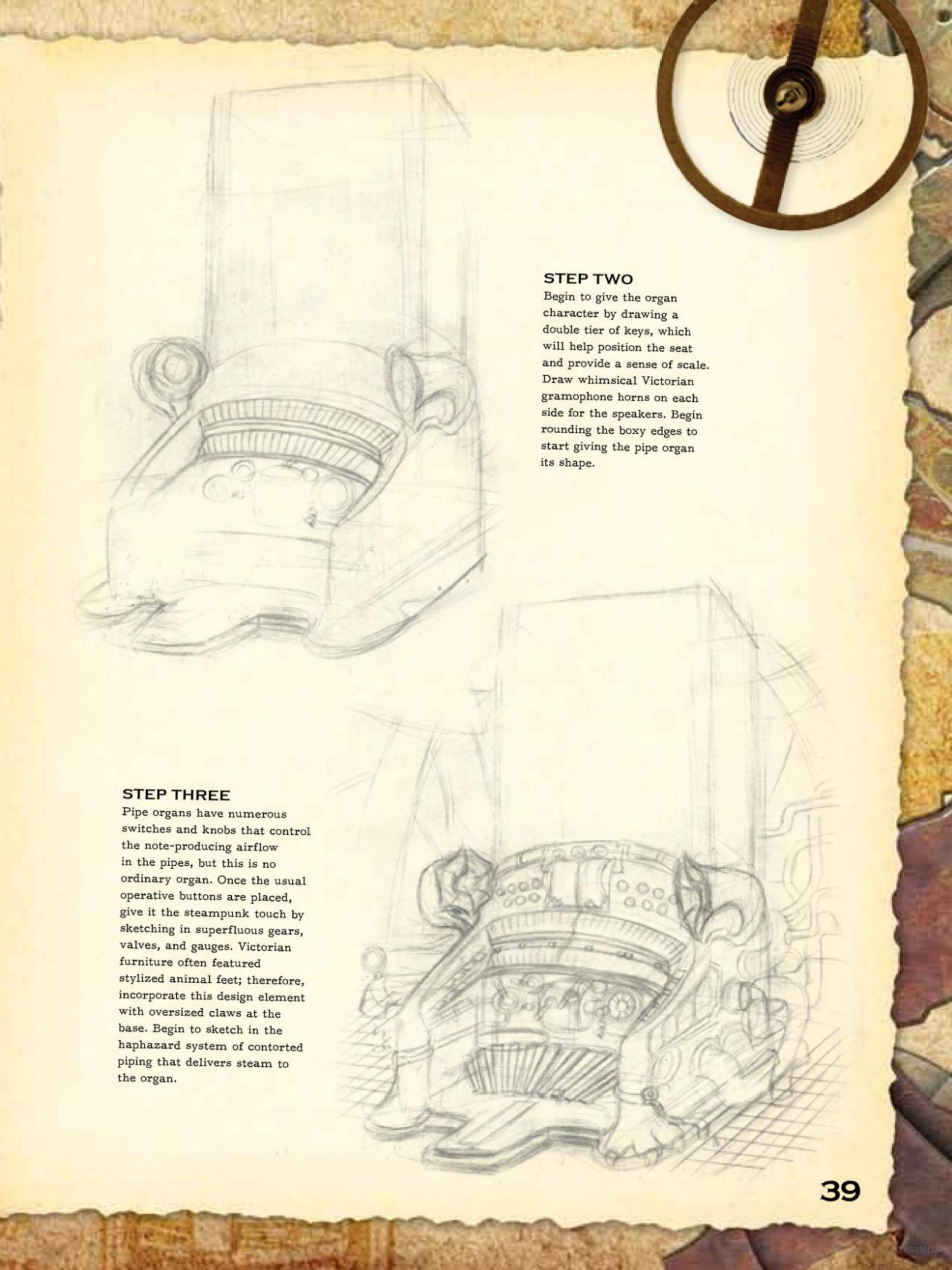
PIPE ORGAN

In the parlor of the Nautilus (see page 86) sits Captain Nemo's massive yet elegant pipe organ. The droning of the engine and the harsh sounds of steel bending to the pressure of the ocean's depths are joined by the sound of music echoing from the belly of this mechanical beast; however, pipe organs are not just reserved for submarines and underground laboratories. You might find one aboard a dirigible or a steam train. These behemoth instruments of power and beauty produce sound by moving pressurized air through ranks of brass pipes.

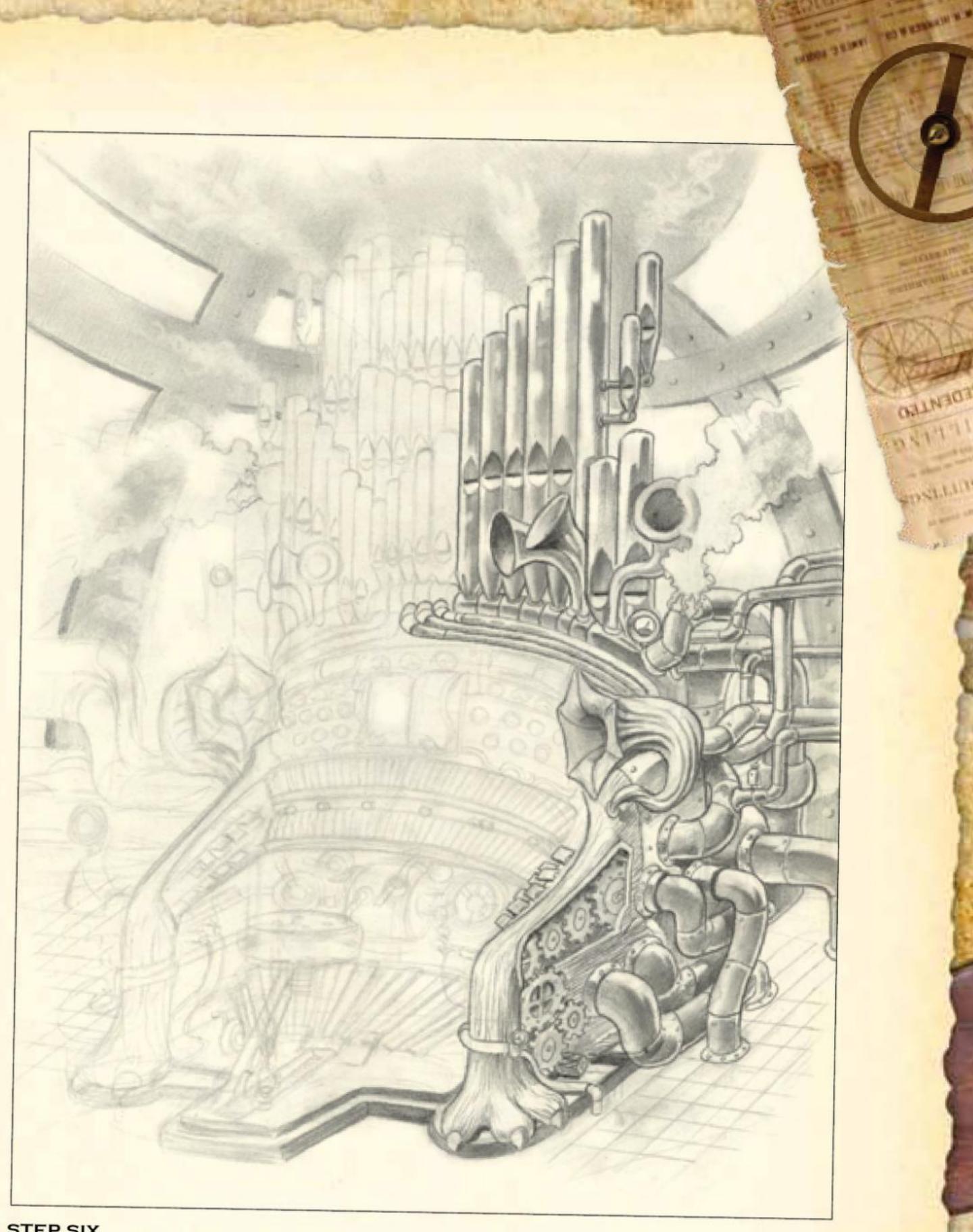


STEP ONE With a 2H pencil,

sketch the upright
block that will house
the organ's pipes and
the area where the
keyboard will go.

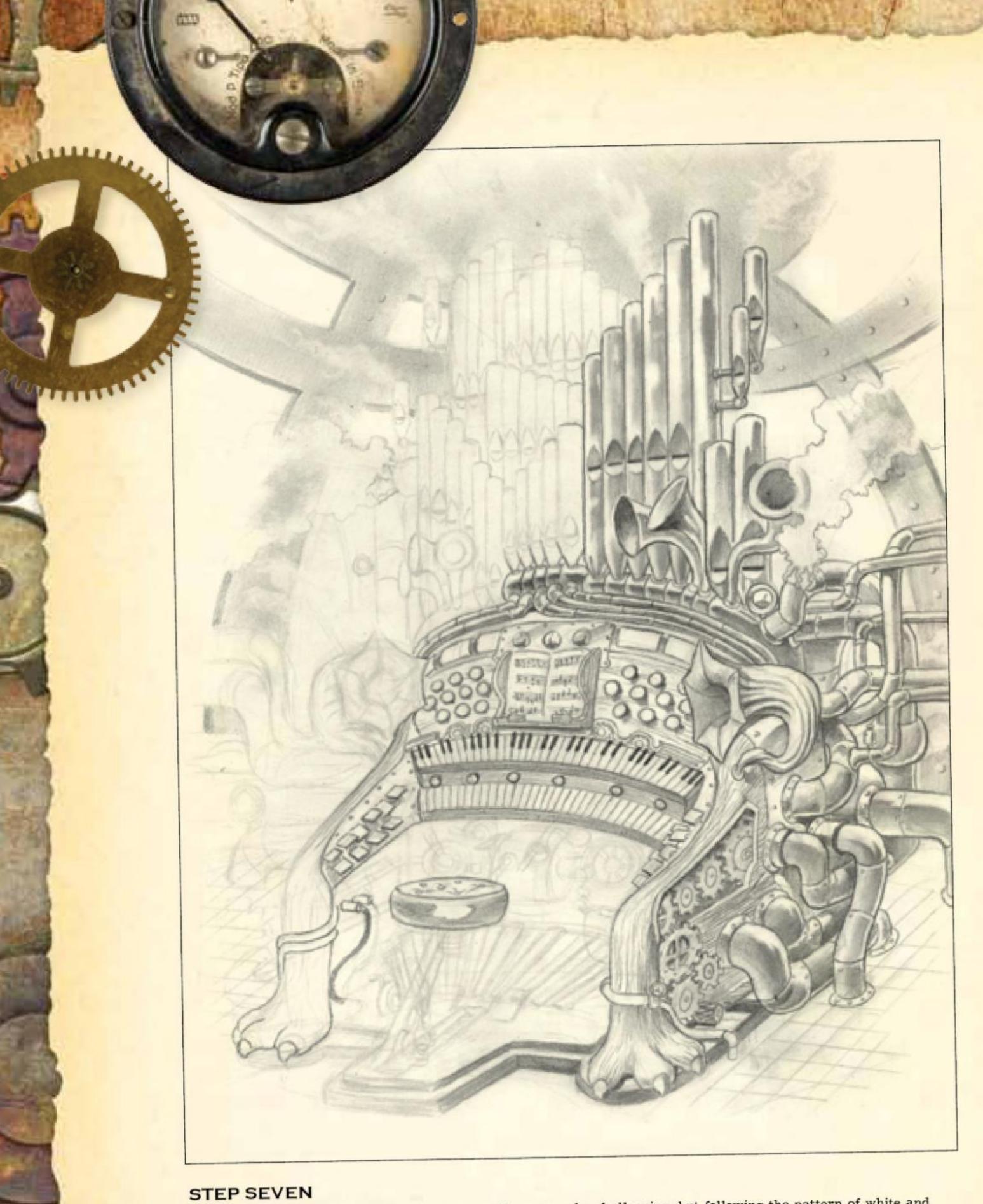




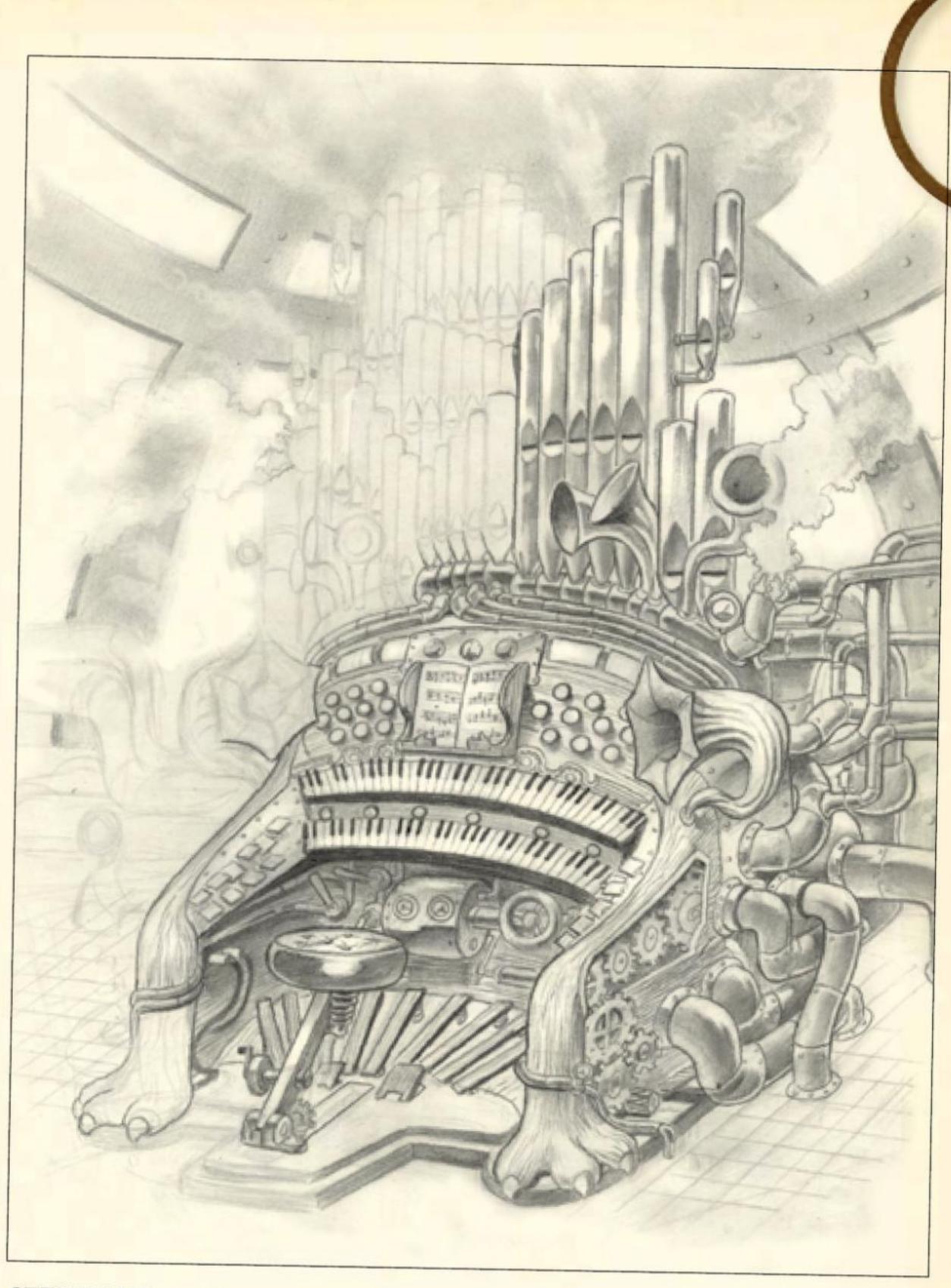


STEP SIX

Use background shading to help define the steam emerging from the pipes. Begin by adding an evenly toned, medium-gray backdrop, softened with a blending stump. Use a kneaded eraser to remove areas of shading to reveal steam. To create the appearance of metal, lightly outline areas of reflected light, keeping the direction of the light source in mind. Then shade around the reflections, making the center of each pipe darkest in value. Lift out highlights with your kneaded eraser when necessary. When adding details to the wooden areas of the organ, such as the legs, remember to follow the direction of the wood's grain and use it to bring out form.



Lightly draw the organ keys. Keeping them uniform may be challenging, but following the pattern of white and black demonstrated above will give them authenticity.



STEP EIGHT

Continue to refine the details, adding gauges and valves below the keyboard and then coating the area with tone so the keyboard appears to recede. Refine the seat to make it appear as if it were made of black tufted leather. Define the remaining components, keeping the direction of the light source in mind.



STEAMPUNE INSTRUMENTS

MUSIC AND PERFORMANCE MAKE UP A
SIGNIFICANT SEGMENT OF STEAMPUNK CULTURE. MANY ARTISTS MODIFY INSTRUMENTS
TO MAKE THEM APPEAR AS IF THEY CAME
STRAIGHT OUT OF A SCIENCE-FICTION NOVEL.
OTHER ARTISTS CREATE NEW INSTRUMENTS
FROM FOUND OBJECTS. BUT NO INSTRUMENT
IS COMPLETE WITHOUT A SOUND SYSTEM.
SOME STEAMPUNK TINKERERS CREATE
SOUND-AMPLIFYING COMPONENTS, AND SOME
BANDS EVEN USE THEM TO ENHANCE THEIR
STAGE DESIGNS. STEAMPUNK FABRICATION
ARTIST STEVE BROOK MODIFIED THE GRAND
EXPERIMENT GUITARS WITH RECLAIMED
GEARS, GAUGES, AND DECORATIVE MOTIFS.

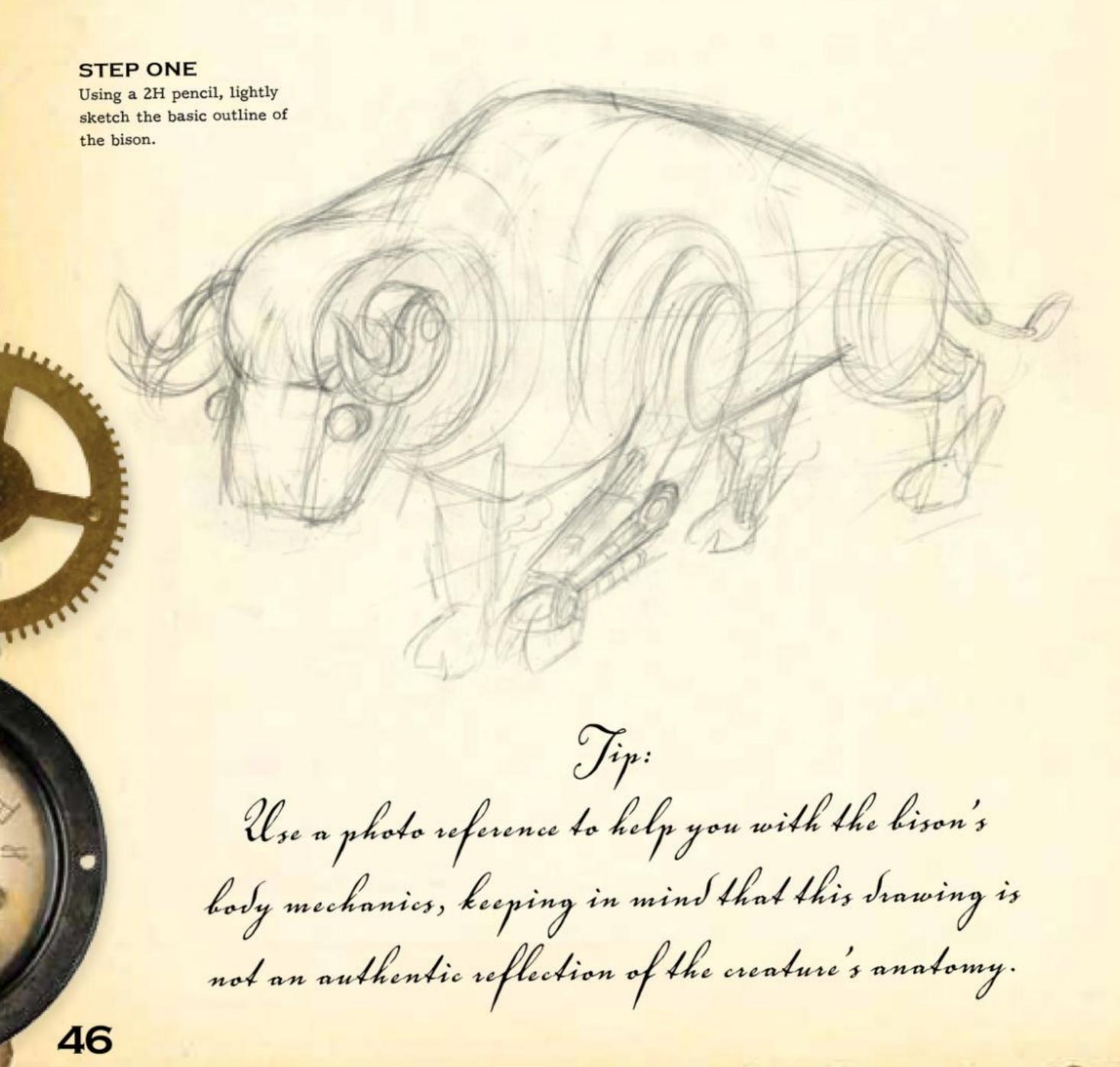


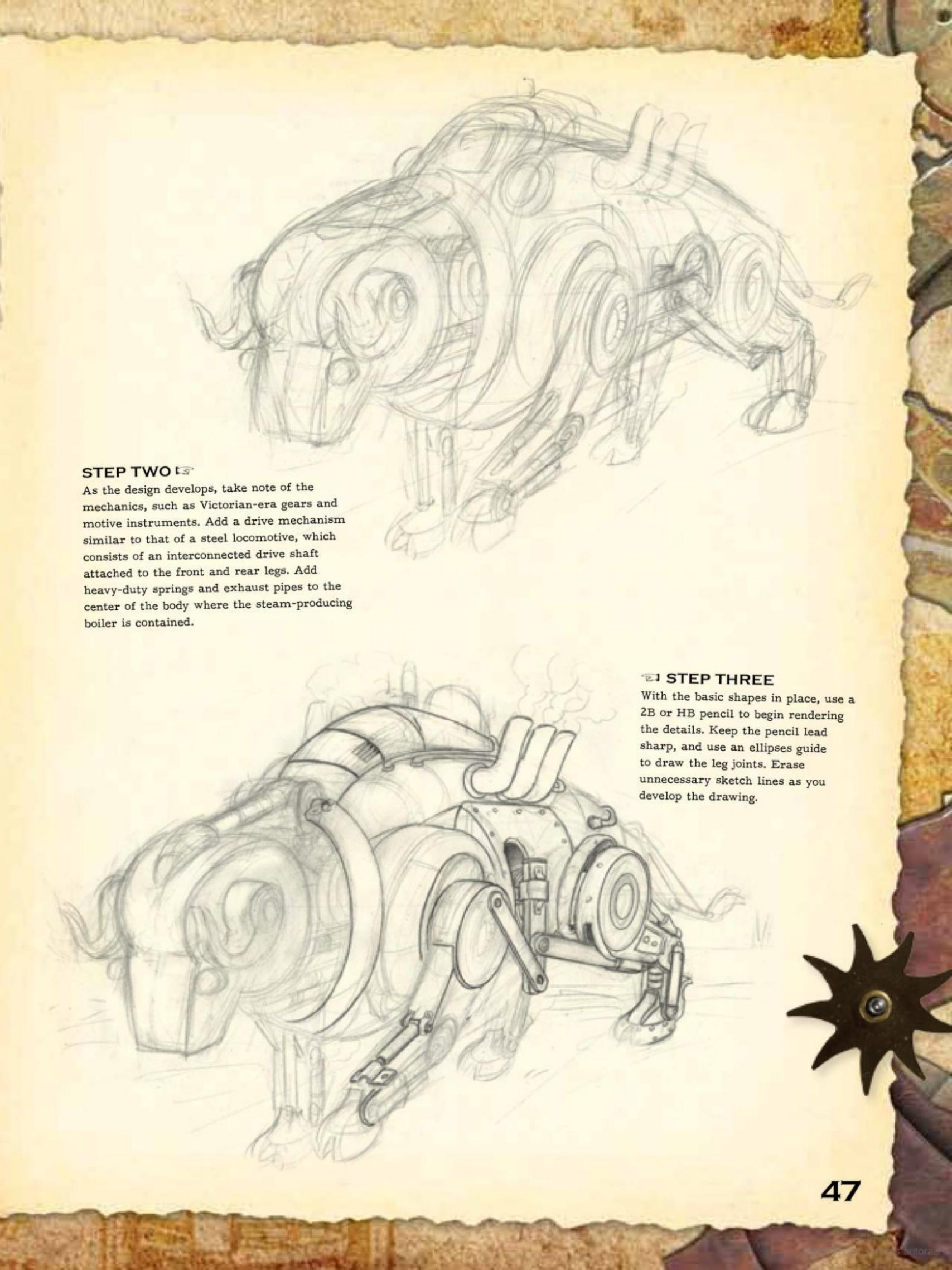




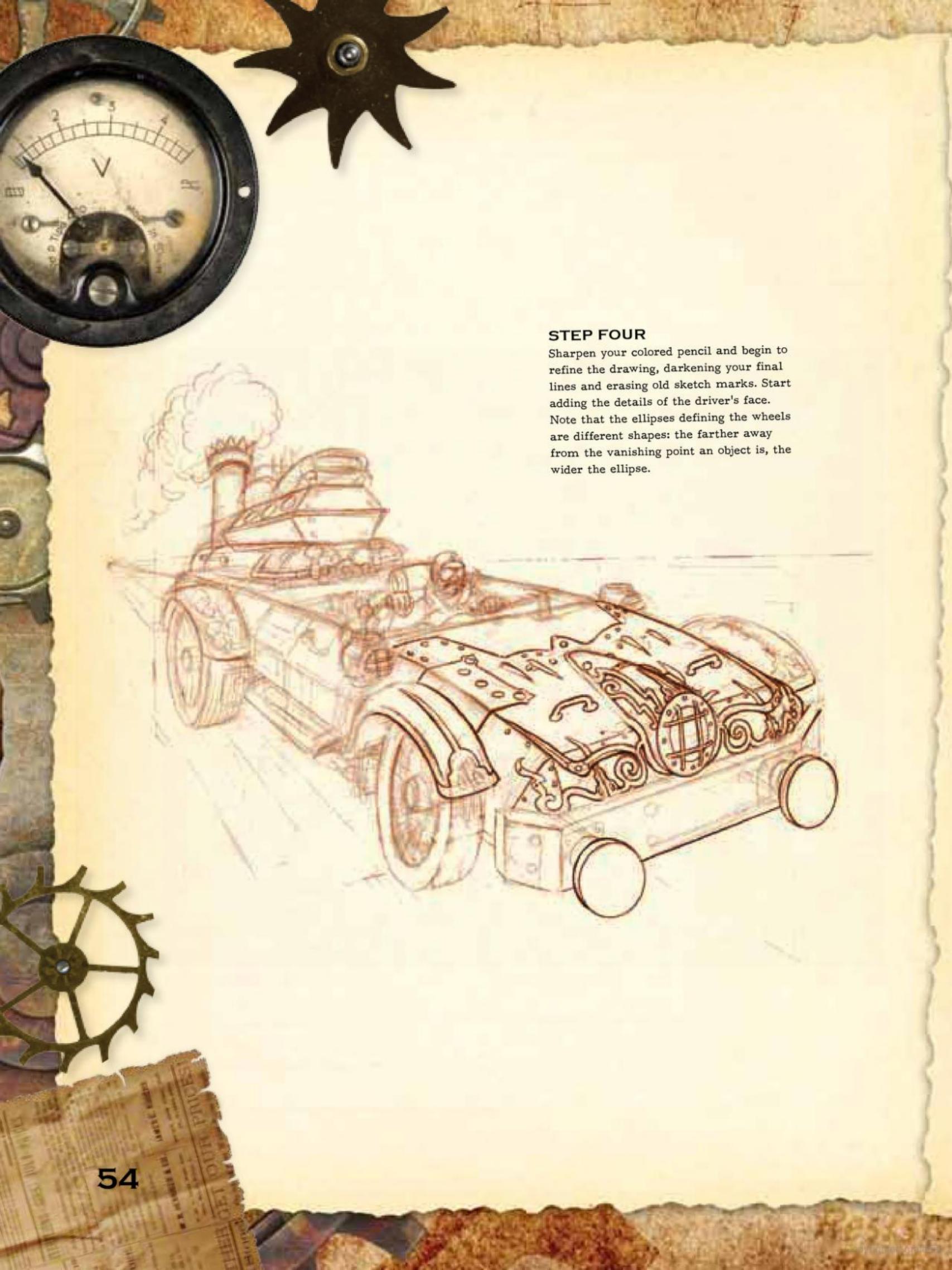
BISON

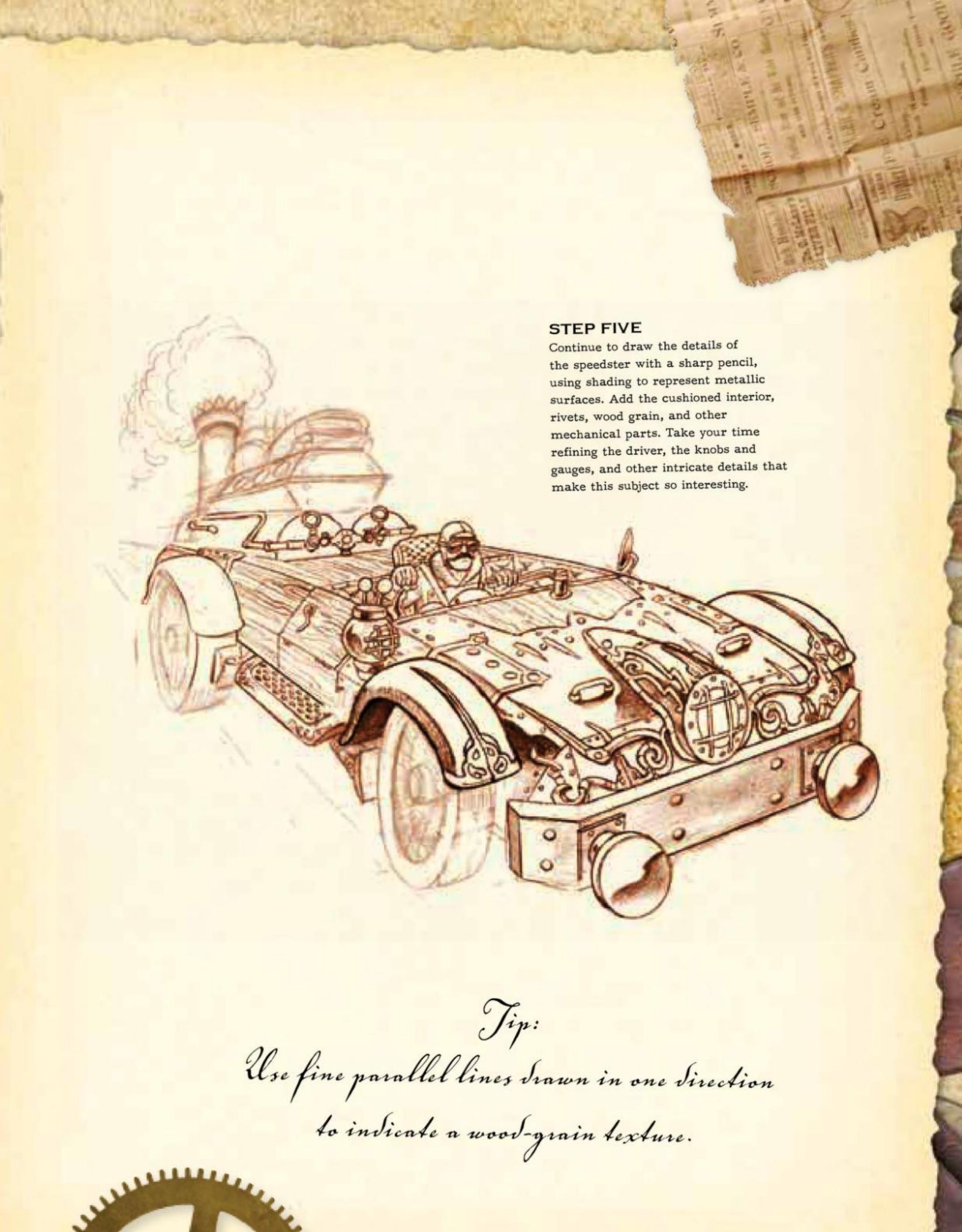
Most steampunk inventors base their work on industrial inspirations, utilizing materials such as brass, copper, and steel to create weaponry and flying machines; however, there is a unique group of makers who seek to blend the hard edges of mechanics and technology with lines and forms found in nature. These efforts often materialize as sculptures and moving machines that resemble biological creatures, even though they were created from metals and springs. For some artists, mechanical parts alone aren't enough to make their art organic—they marry taxidermy with metalwork, creating a unique style of steampunk art. The bison featured in this drawing project, however, is purely man-made.













STEP TEN

Fill in the fenders with a bright scarlet marker.

Then darken the same area with a layer of yellow ochre marker. Continue to add layers until you achieve a rich, red color.



STEP ELEVEN

Render the hood in a brassy, gold color, applying darker colors with markers. Use a dark golden green marker; then use yellow and gold colored pencils to blend in lighter, metalliclooking values. Use the lightest yellow value to indicate reflected light. While lighter areas will be opaque from layer upon layer of pencil, the shadows should be left semi-transparent.



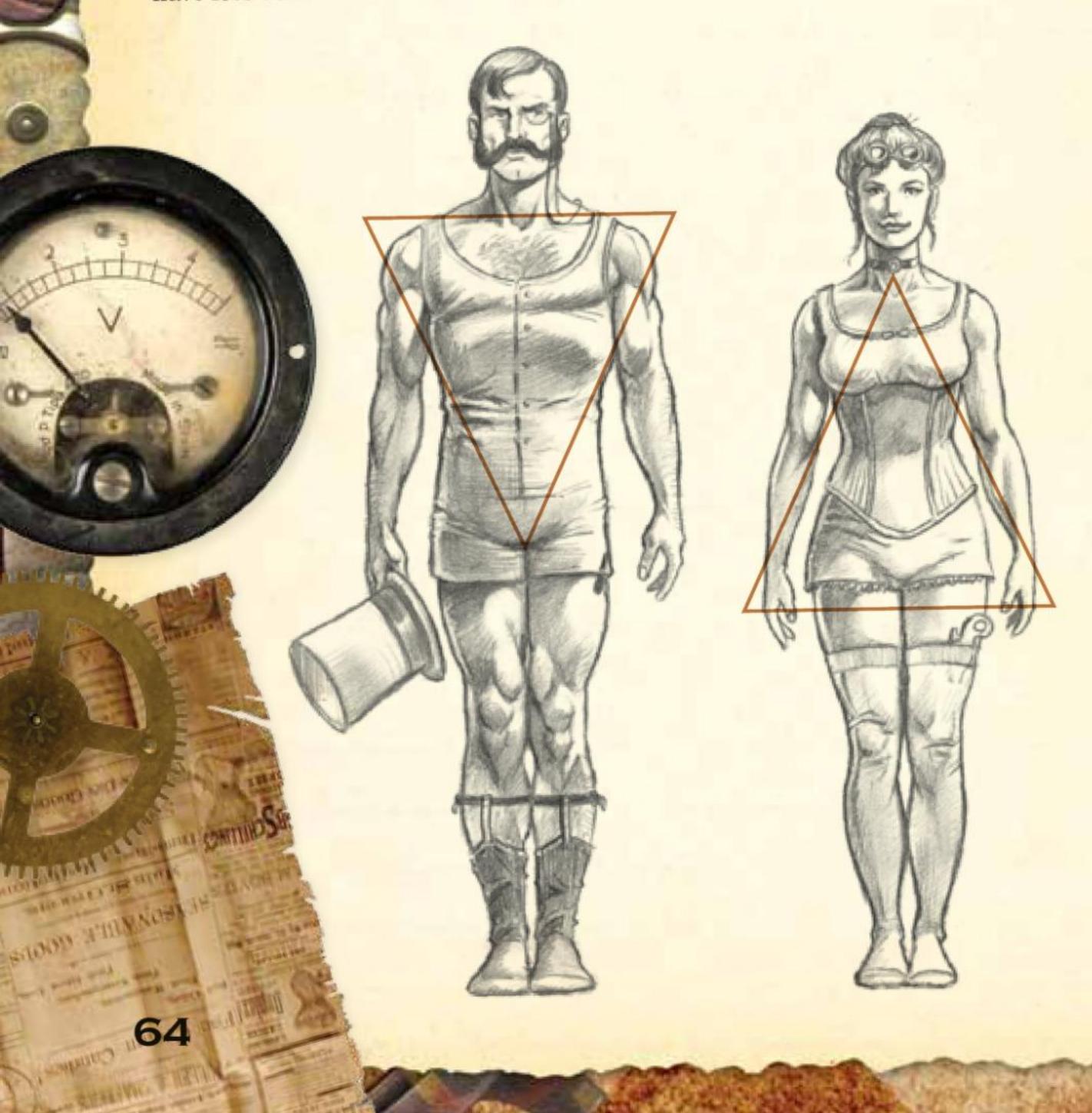






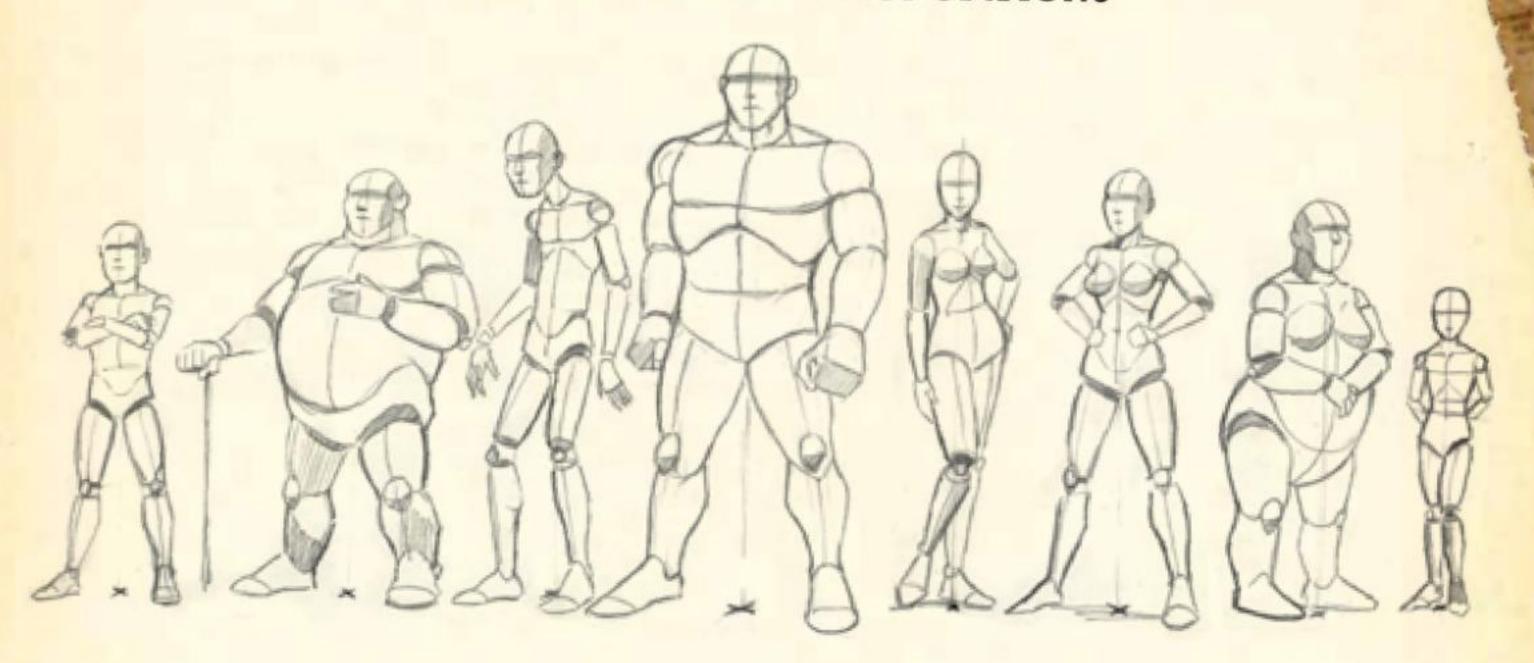
FIGURE PROPORTIONS &

While no self-respecting Victorians would have put themselves in such a compromising position, this disrobed couple will help demonstrate human proportions. First, use the head as a standard of measurement. The male figure is roughly 7 to 7-½ heads tall; the female figure is about 6-½ to 7 heads tall. There are differences in how body mass is distributed in males and females, as well. A simple technique for drawing male and female figures is to use a triangle. As shown in the diagram, the male figure is shaped like an inverted triangle: The shoulders are slightly wider than the hips. The female figure is just the opposite: The hips are wider than the shoulders. In addition to these obvious differences, a female's muscles have less definition than a male's.



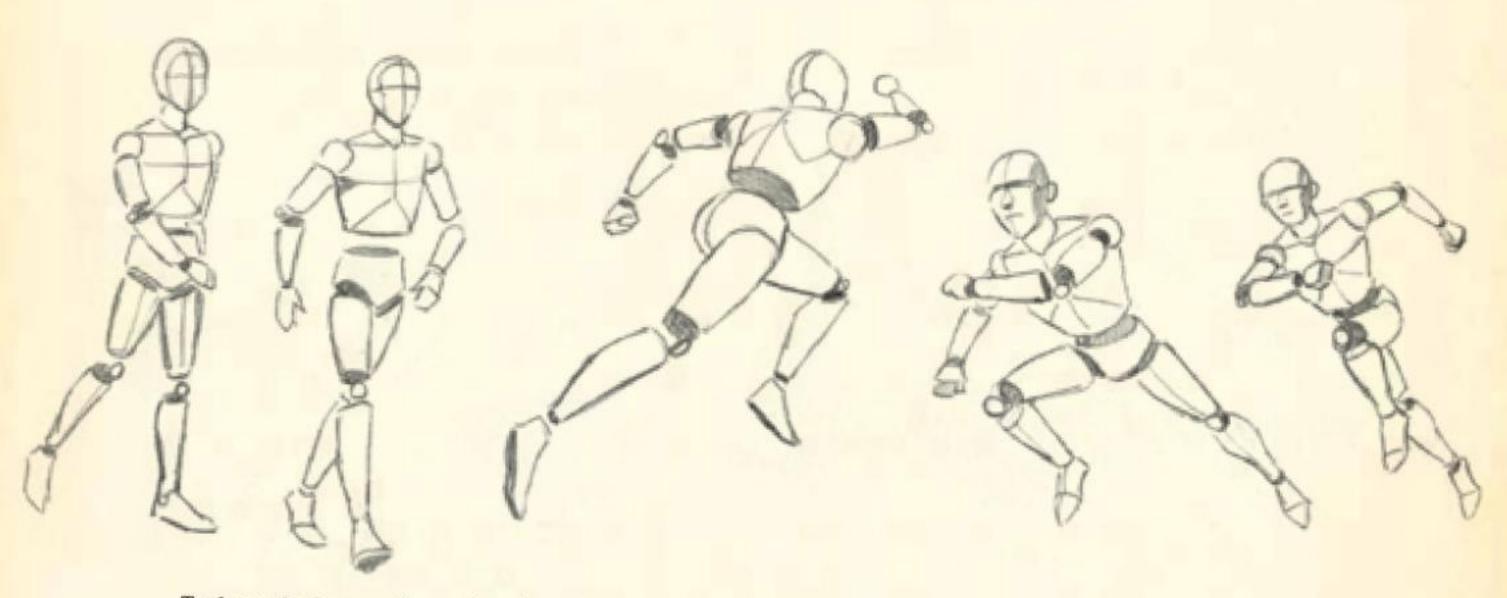
DEFINING CHARACTERS

THROUGH BODY PROPORTIONS —



Steampunk stories feature a rich variety of characters. You can establish a character's personality by altering figure proportions, size, and posture. Begin by drawing simple shapes and masses. Once you are satisfied with a character's build, you can begin adding the details.

THE FIGURE IN ACTION



To draw the human figure in action, sketch an artist's mannequin made up of simple cylinders. This provides the framework upon which to add the details.

SICONIC CHARACTERS &

AND VICTORIAN STYLE —

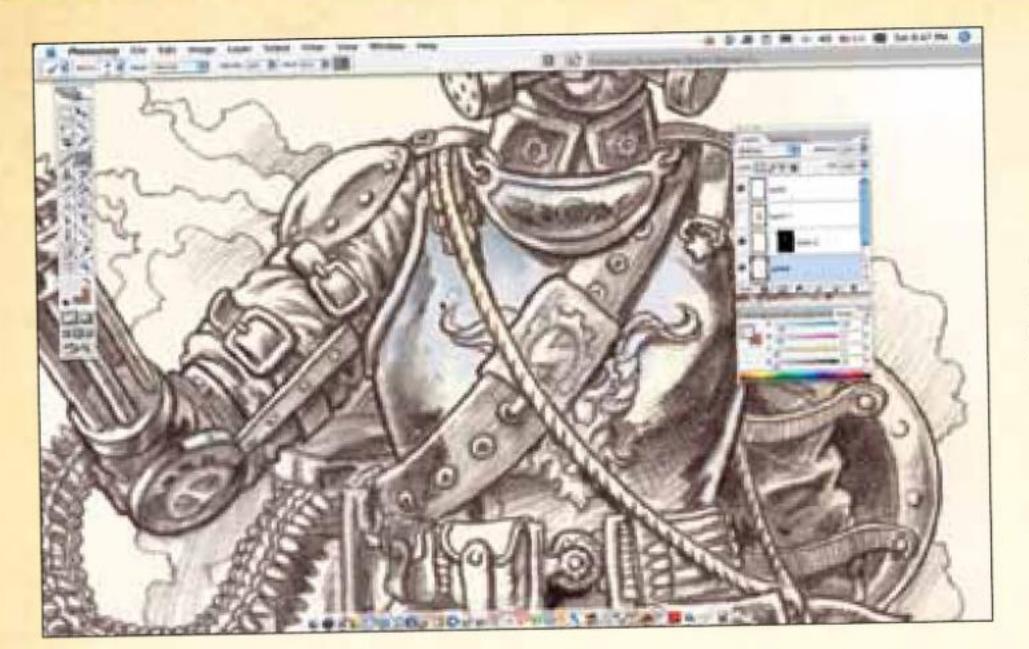
Costumes are key in identifying the roles of steampunk characters. Apparel can borrow elements from many historical periods, but the classic style stems from Victorian-era fashion. Men typically wear top hats or bowlers, as well as vests, suspenders, and spats. Women have a wider range of styles, from dresses fit for a proper lady to the slightly bawdy, dance-hall inspired costumes worn by female adventurers. Military-inspired ensembles also grace steampunk settings; these usually include campaign tunics, Sam Browne belts, gauntlets, pith helmets, and the ever-present steampunk goggles.



Gentleman

Men in the steampunk universe occupy a wide-range of professions, from blunderbuss-toting gentlemen and innovative scientists to rough-and-ready

sky pirates and hulking strongmen. There are soldiers, aviators, and colonial explorers—the possibilities are endless!



STEP SIX

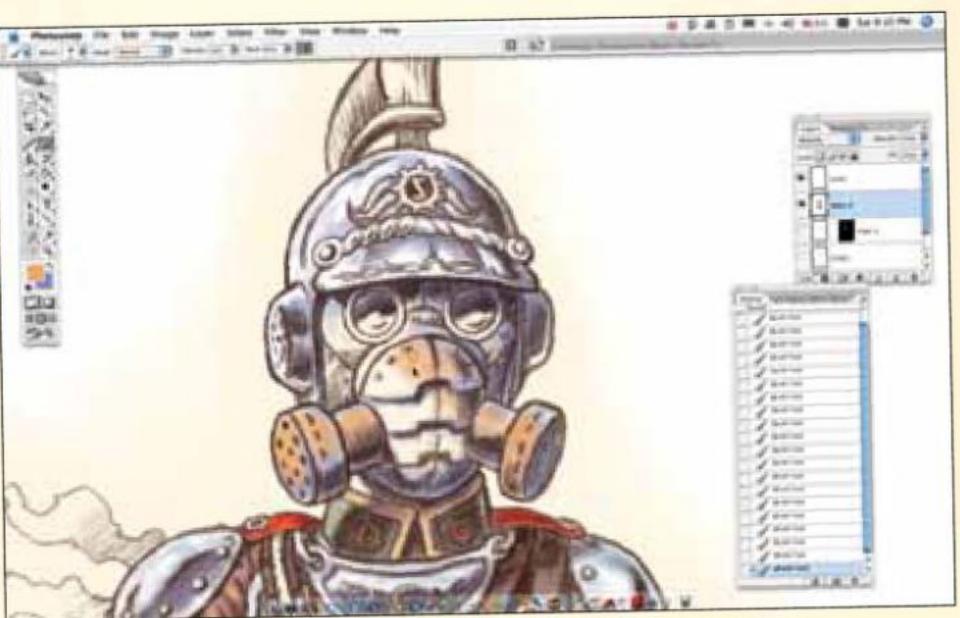
Create two separate color layers.

Set one to "Multiply." This will allow the underlying artwork to show through the color that's applied over it. On top of the main color layer, create another layer set to "Normal." Add touches of opaque color, which will help create realistic-looking metal surfaces.

STEP SEVEN 13

Use the Brush Tool set to "Watercolor Effect" at 50%. This will give the color application a handdrawn appearance.

Alternate between the color layers to add opaque and transparent areas, slowly building up the color effects.

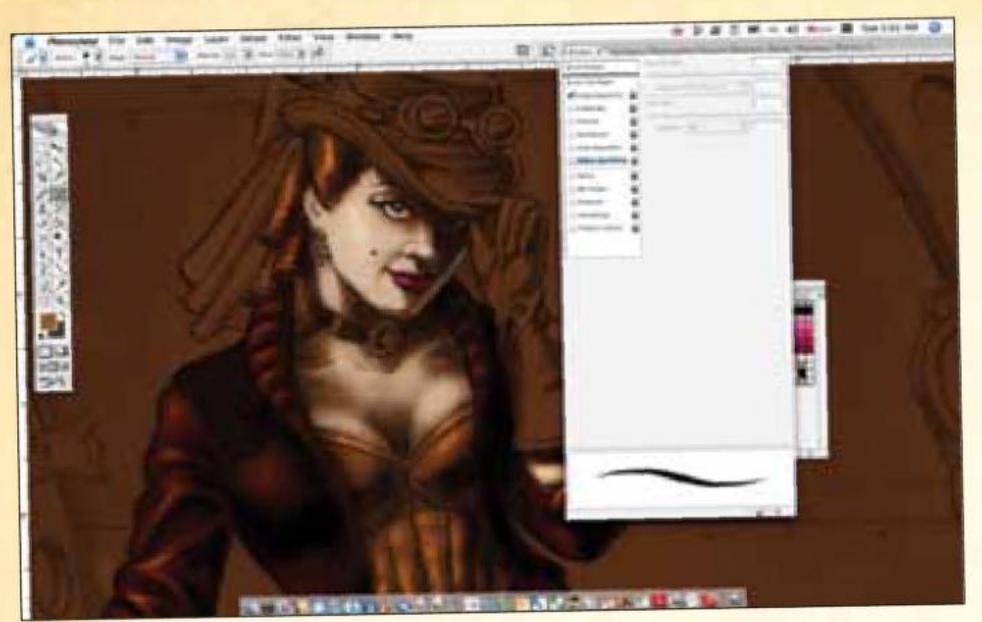


| The column | The

STEP EIGHT

Add slight variations of color to give the soldier's costume a worn look. Use the Dodge and Burn Tools set to "Midtone" to add highlights and shadows to areas such as the soldier's pants. To achieve bright highlights in the details of the soldier's armor, use the Dodge Tool set to "Highlight."



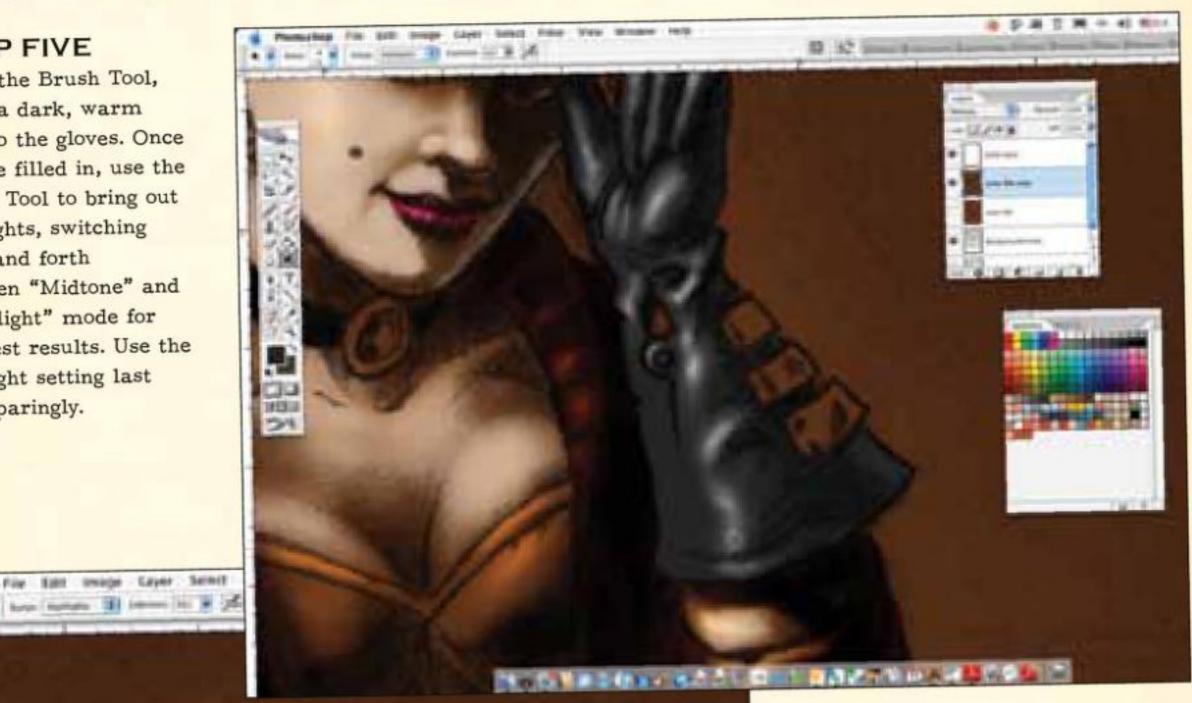


STEP FOUR

Add magenta lip gloss using the Brush Tool on a small hard-edged setting. Continue to use a light, muted tan to build the woman's features. With the Dodge Tool, carefully create a high area of light on the cheek. Then create a highlight in the hair to give the illusion of hair color. Use 20% black to paint in the white of the eyes. Turn down the opacity of the brush to 50% to slowly build the strongest value of light gray. Continue to apply the Dodge Tool to the woman's tresses, and use a tapering brush to apply additional natural-looking highlights to the hair.

STEP FIVE

Using the Brush Tool, apply a dark, warm gray to the gloves. Once they're filled in, use the Dodge Tool to bring out highlights, switching back and forth between "Midtone" and "Highlight" mode for the best results. Use the highlight setting last and sparingly.



STEP SIX

Paint the hat with a dark green that edges on black. Use the magic wand (Quick Selection Tool) to select the painted area of the hat to isolate it from the background. Then use the Dodge Tool at a low setting to bring out a green-hued highlight on the top plane. Reset the Dodge Tool to "Midtone," and apply to the side of the hat for a slightly darker, cooler highlight. The changing color modulations help define the changing planes of the hat. Use the Dodge Tool to bring out the brass color on the goggles and the satin rim of the hat.

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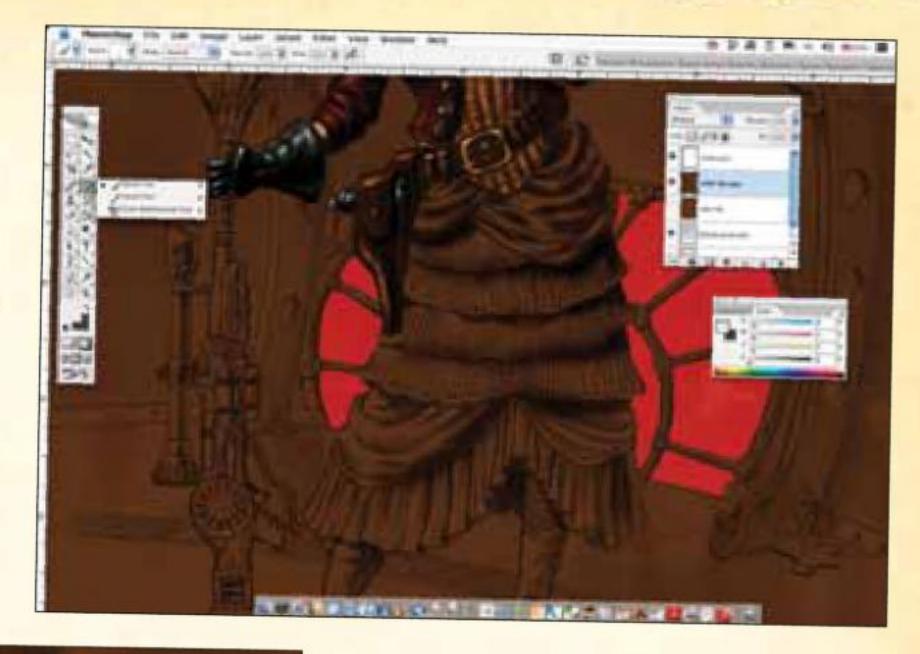
W. R. HIT MARKET & CO. . (RAWLE)

PRECEDENTED



STEP SEVEN

Use the Dodge Tool to apply a light golden-yellow highlight on the buttons. Next, use the "Edit in Quick Mask Mode" Tool to apply a mask to the window, which will allow you to color the scene through the window without affecting painted areas. Set the mask to any color you prefer.



STEP EIGHT

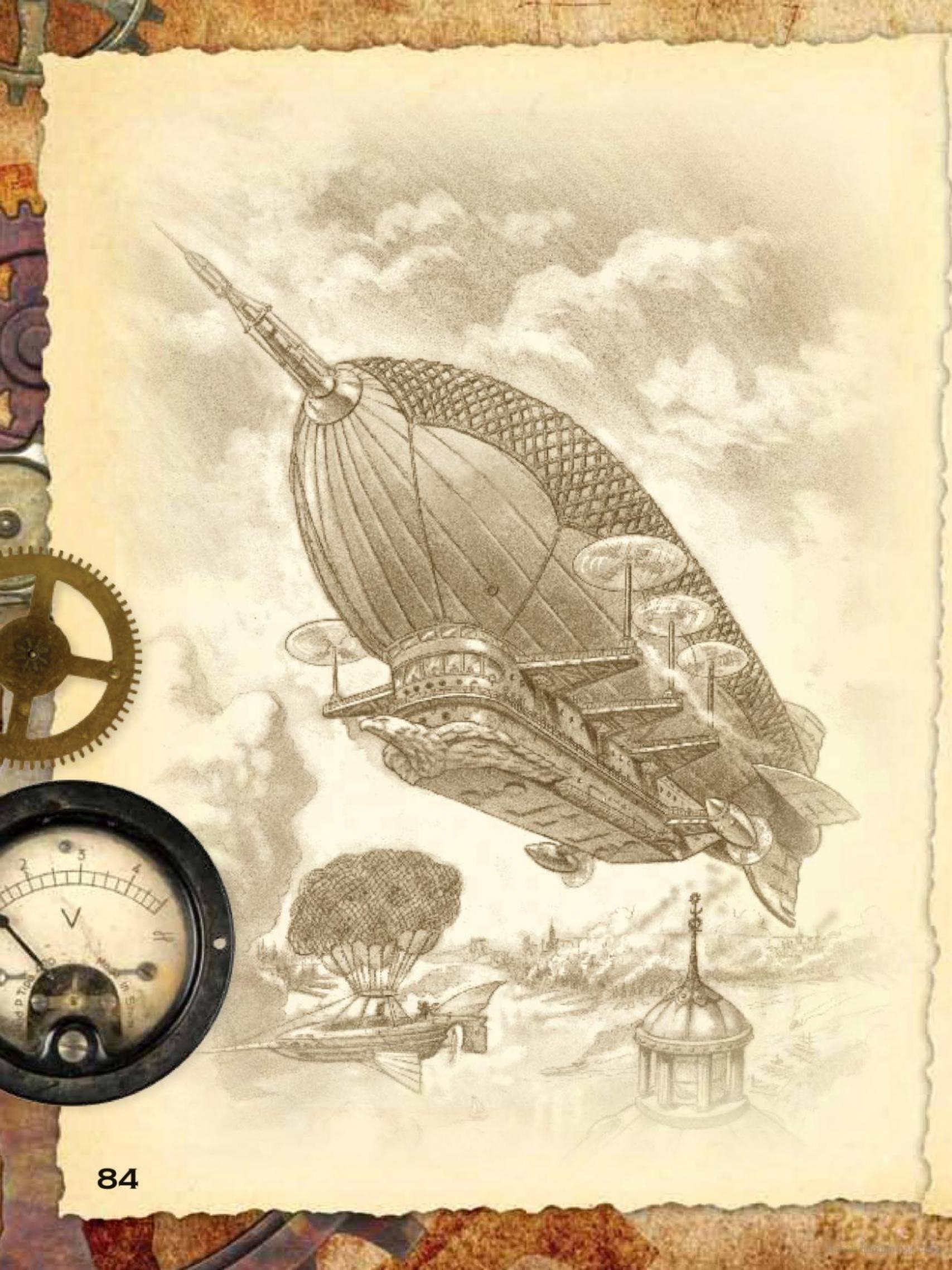
Use the "Load Selection" function to turn your mask into an active selection. Save this selection, as you may need to use it again. With the interior of the windows selected, activate Hue/Saturation in the "Image" dropdown menu under "Adjustments" to brighten and de-saturate color in the windows to gray. With the selection still active, use the Dodge and Burn Tools to render clouds. Invert the selected area and use the Dodge Tool to add a brass tonality to the window framework.



Use the Quick Mask Tool to mask off the skirt. Activate the mask and use the Burn Tool to fill in the selection with dark green. Use the Burn Tool set to "Midtone" to add even darker shadows to this area. Switch to the Dodge Tool and begin to add shiny highlights to the skirt trim. Follow-up with the Dodge Tool on a broad setting to add pleat and fold highlights to the skirt.



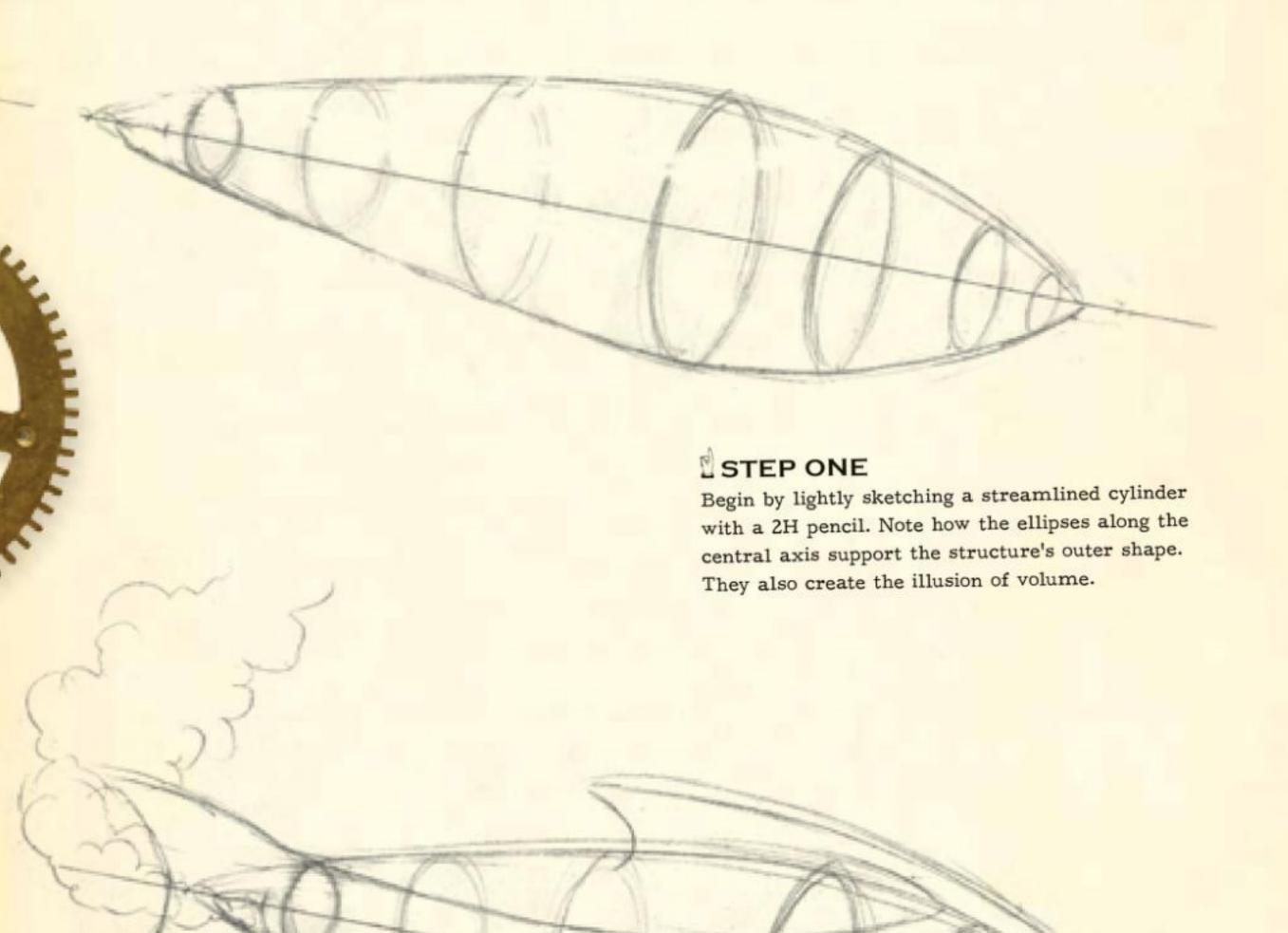






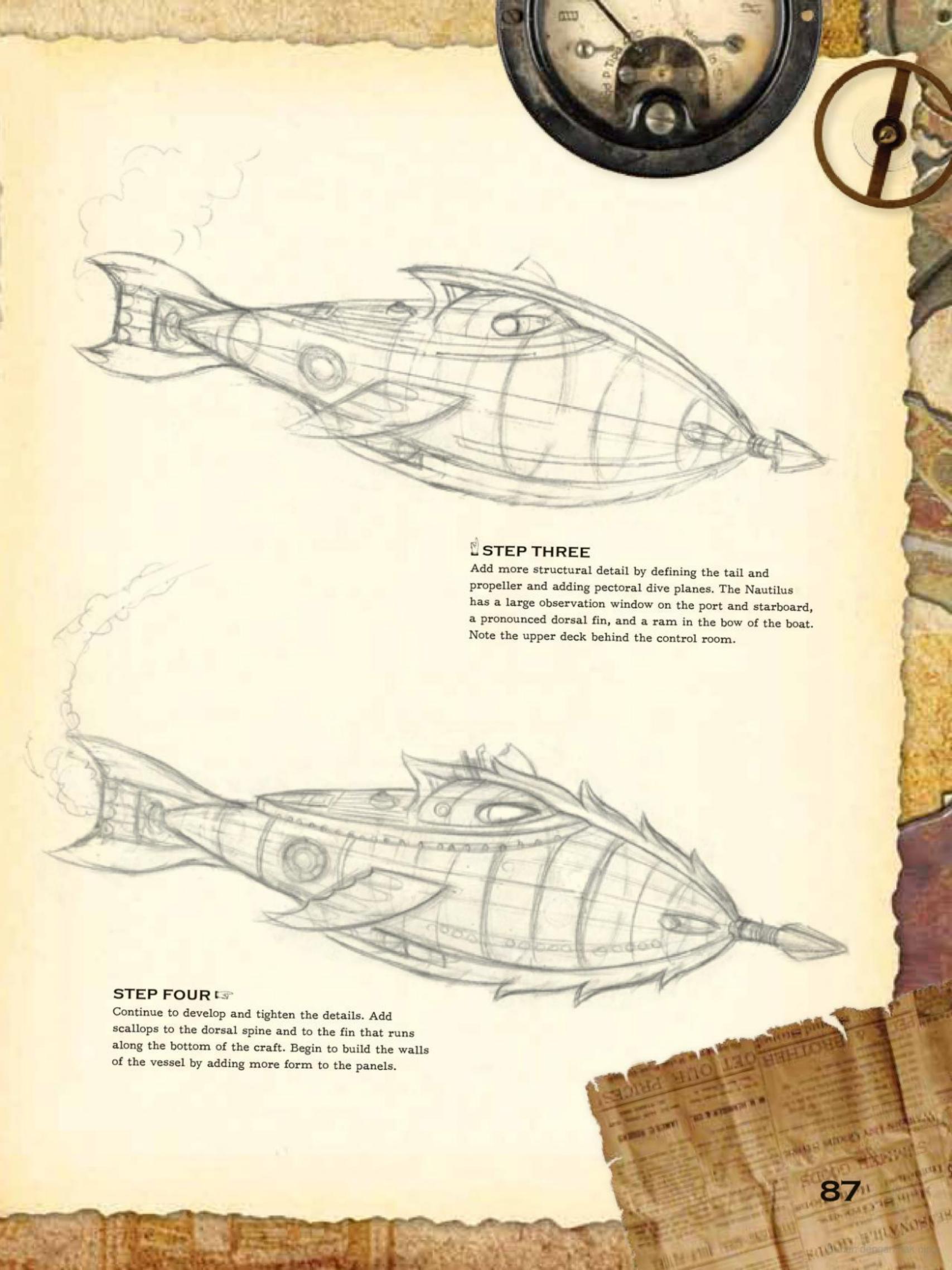
- NAUTILUS &

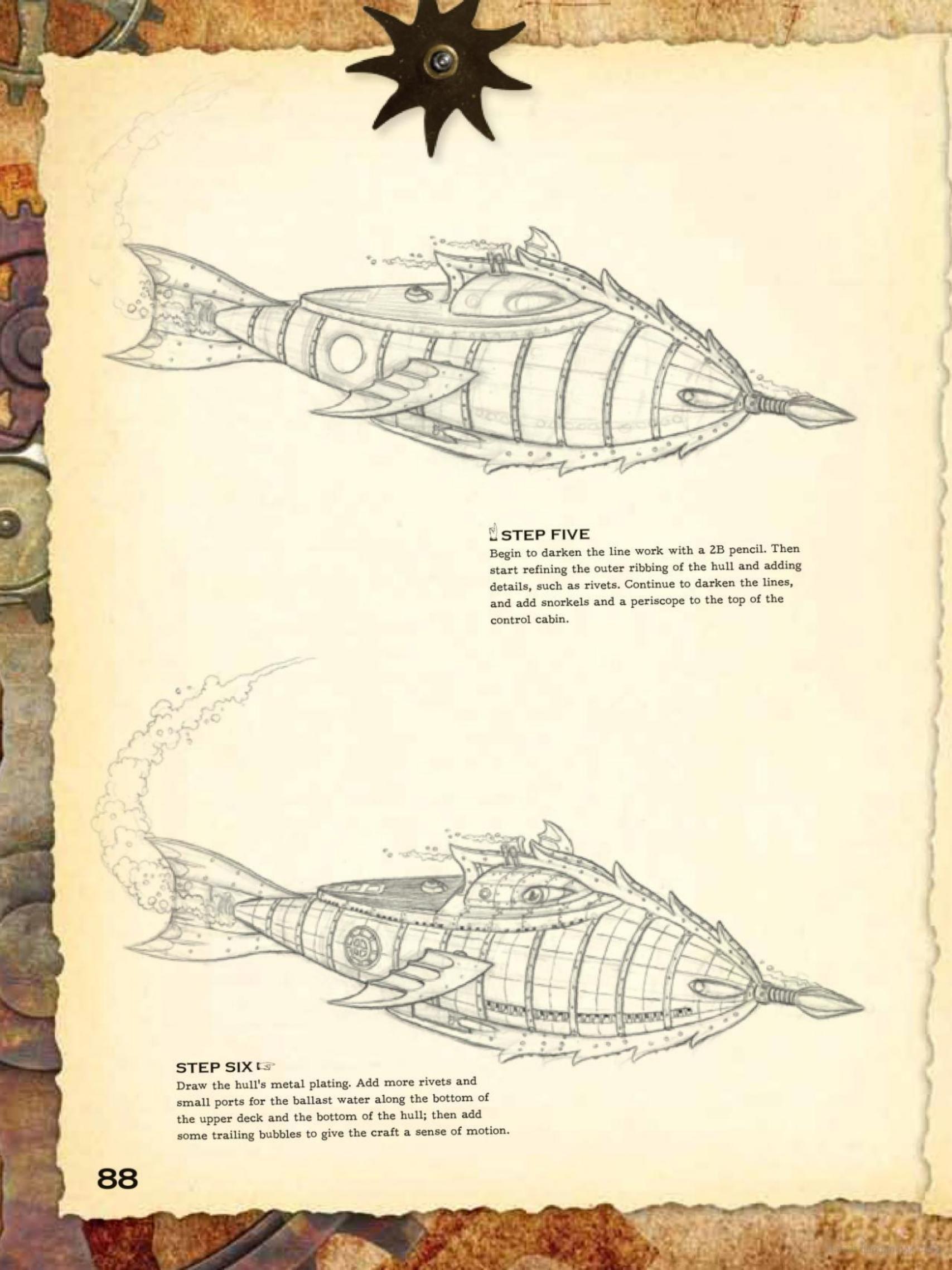
The Nautilus has had many incarnations through the years. The most famous is Captain Nemo's vessel in Jules Verne's literary classic, 20,000 Leagues Under the Sea. With all the power of a war machine and all the comforts of a Victorian home, the Nautilus contains a parlor, library, dining area, and even a pipe organ—all hidden beneath the ocean's depths. This legendary ship will inspire artists and engineers for years to come.

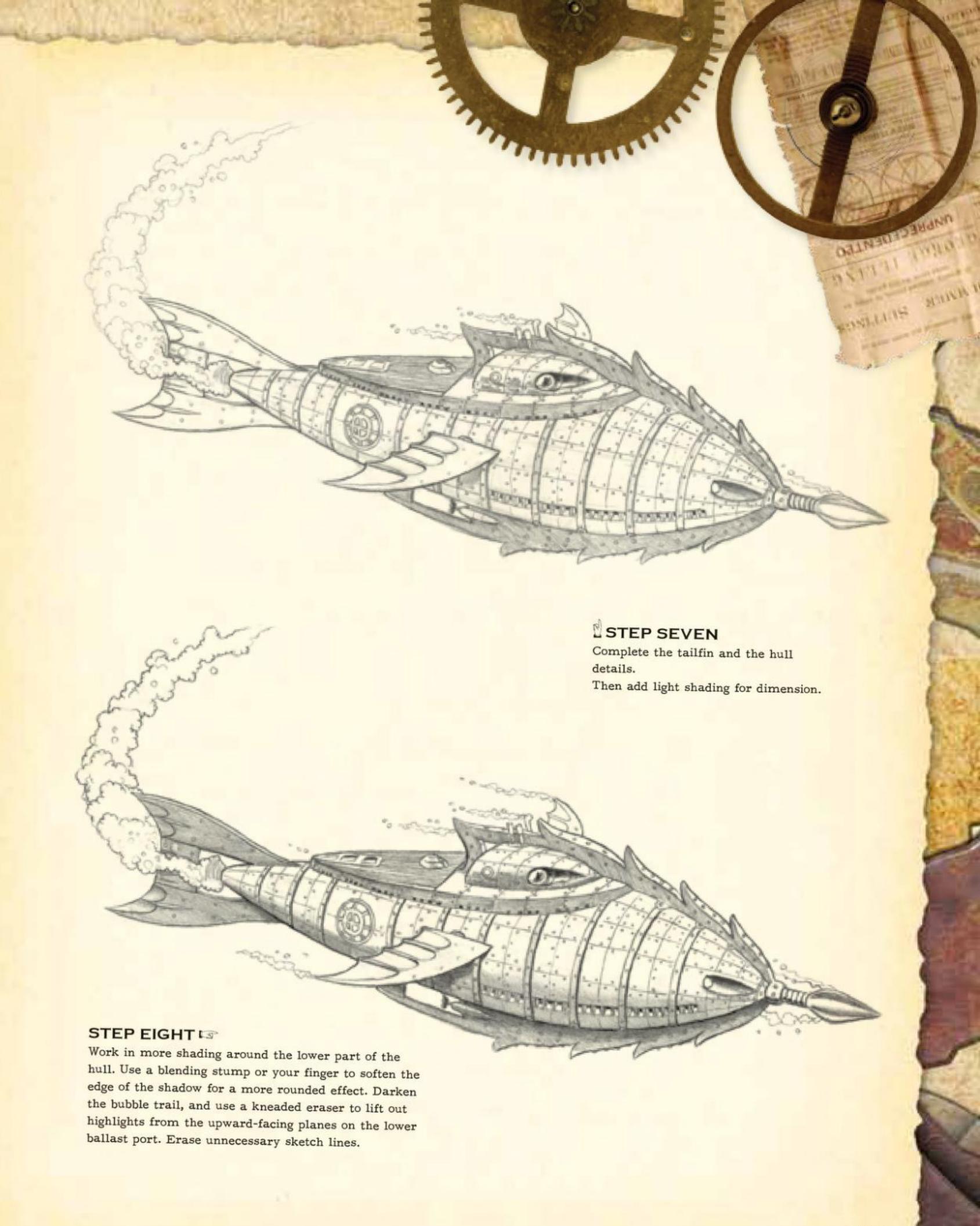


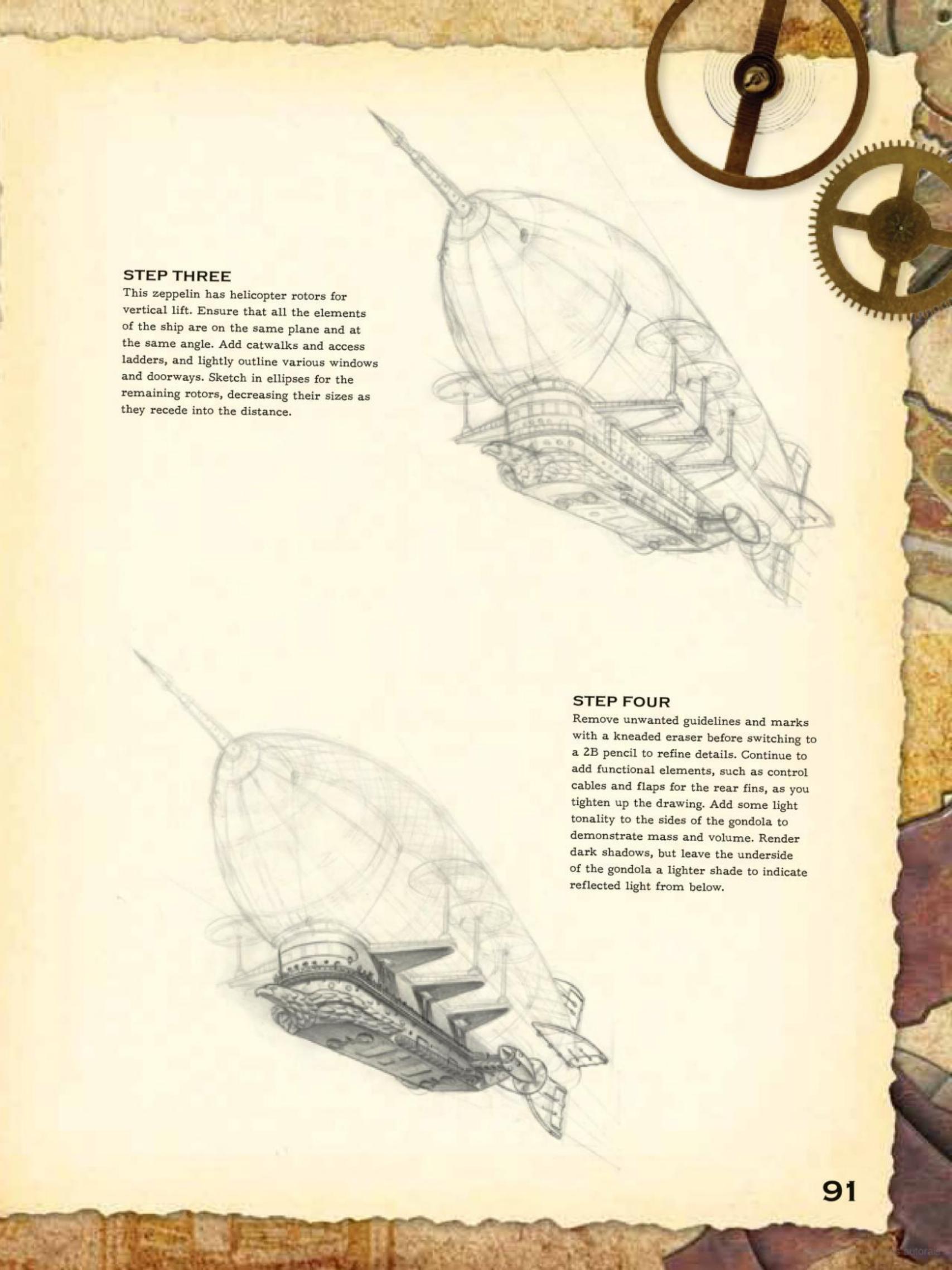
STEP TWO

Using a 2H pencil, begin to sketch the aquatic details of the Nautilus. The Nautilus has an overall fish-like appearance.

















FLYING GALLEON &

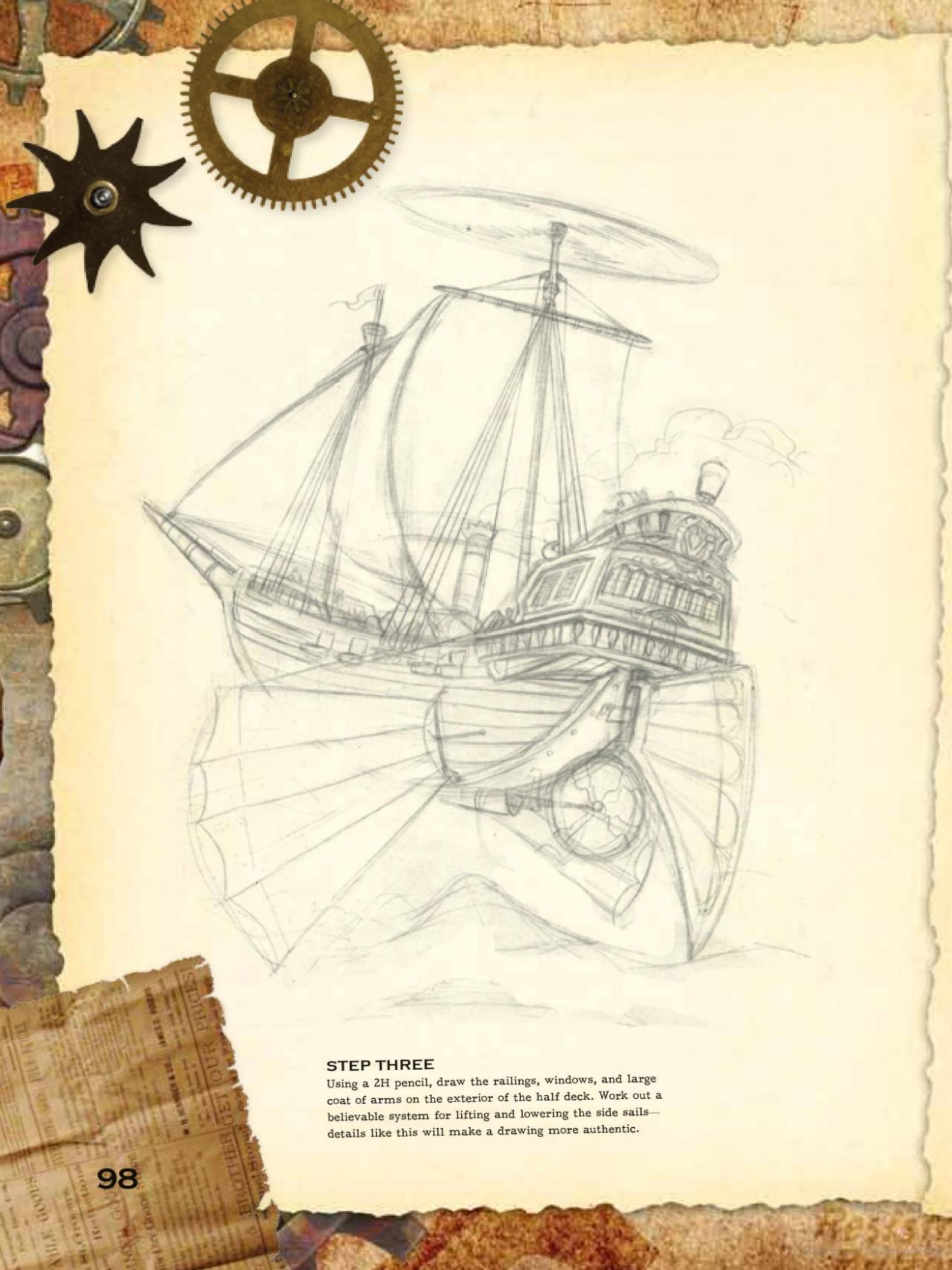
Following the nautical rules of seafaring in the clouds, the flying galleon defies gravity using harnessed electrical power and propulsion. Navigating on the winds, air pirates swashbuckle their way through the air, defending against unimaginable beasts and hijacking any piece of treasure or technology that catches their eye. The crew is trained to use grappling hooks, harpoons, and electrical guns to procure their riches. The cannons mounted to the deck fire electricity rather than cannonballs and will bring down even the most armored of zeppelins in no time. The only insurmountable foe in the sky for the galleon is another equally armed galleon or an air kraken!

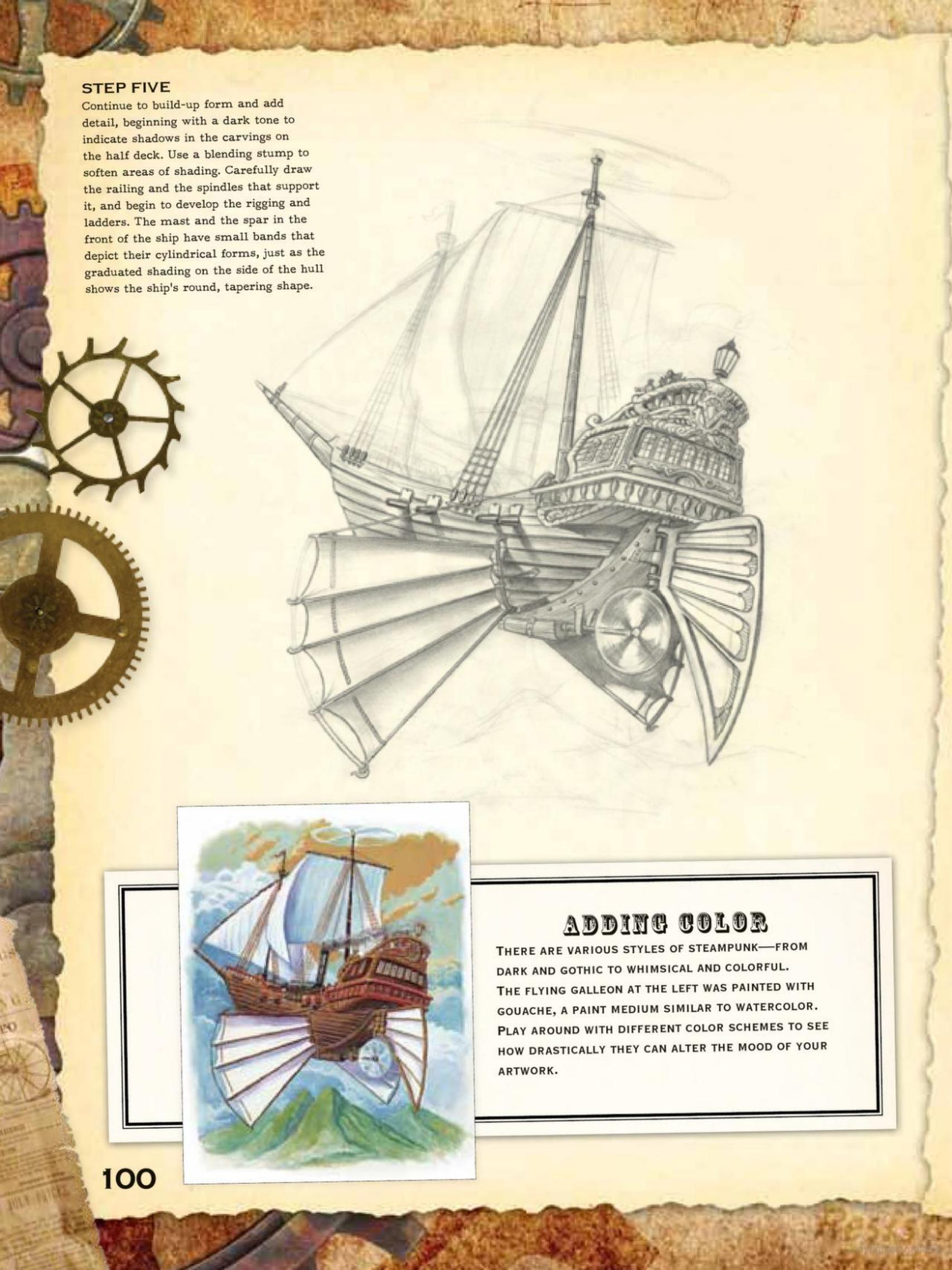
STEP ONE

Rough in the ship's hull with a 2H pencil. The shape is complex and curves along two axes, one of which curls upward at both ends. The sides of the ship bow out, making the center of the ship wider than its ends.

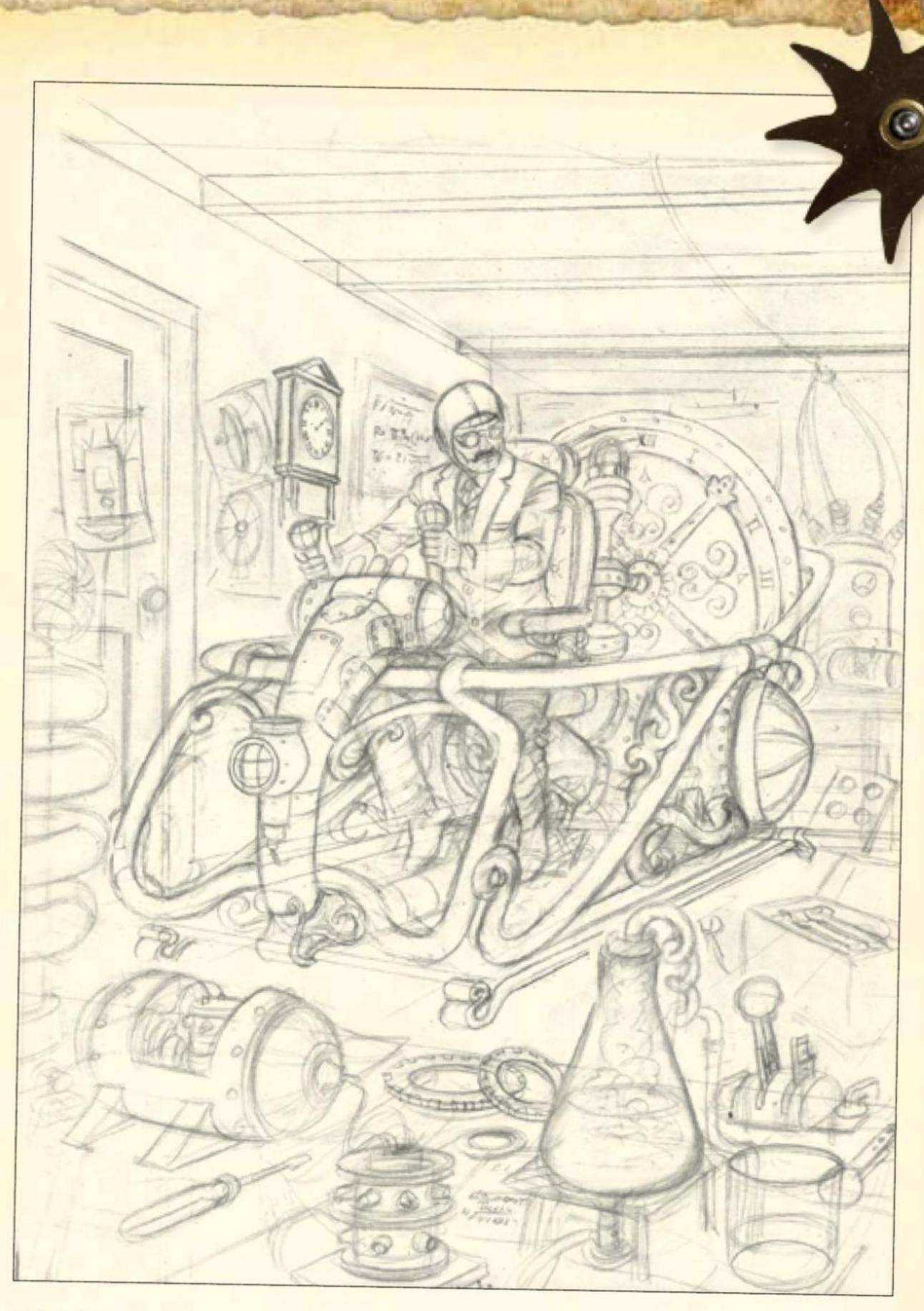






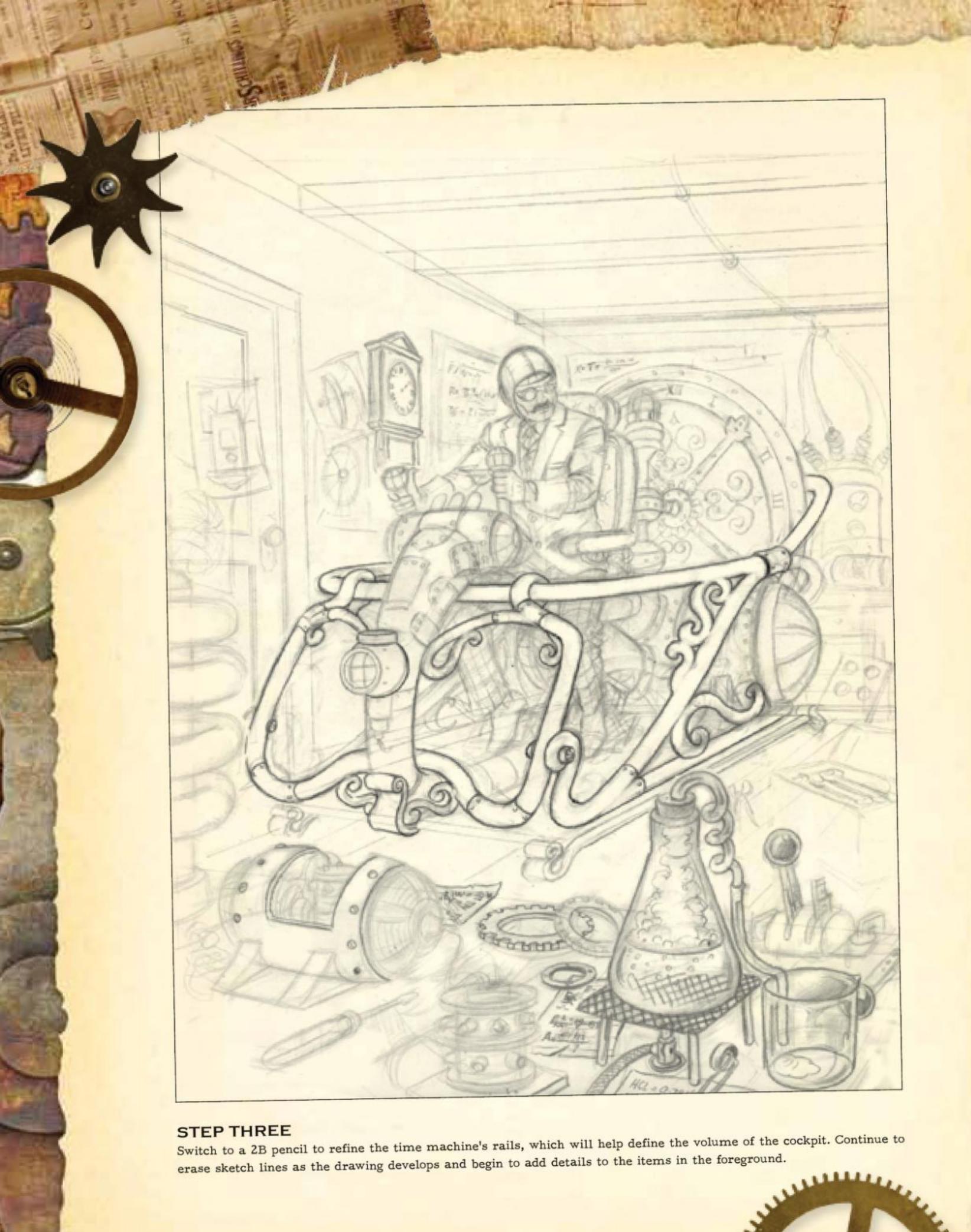


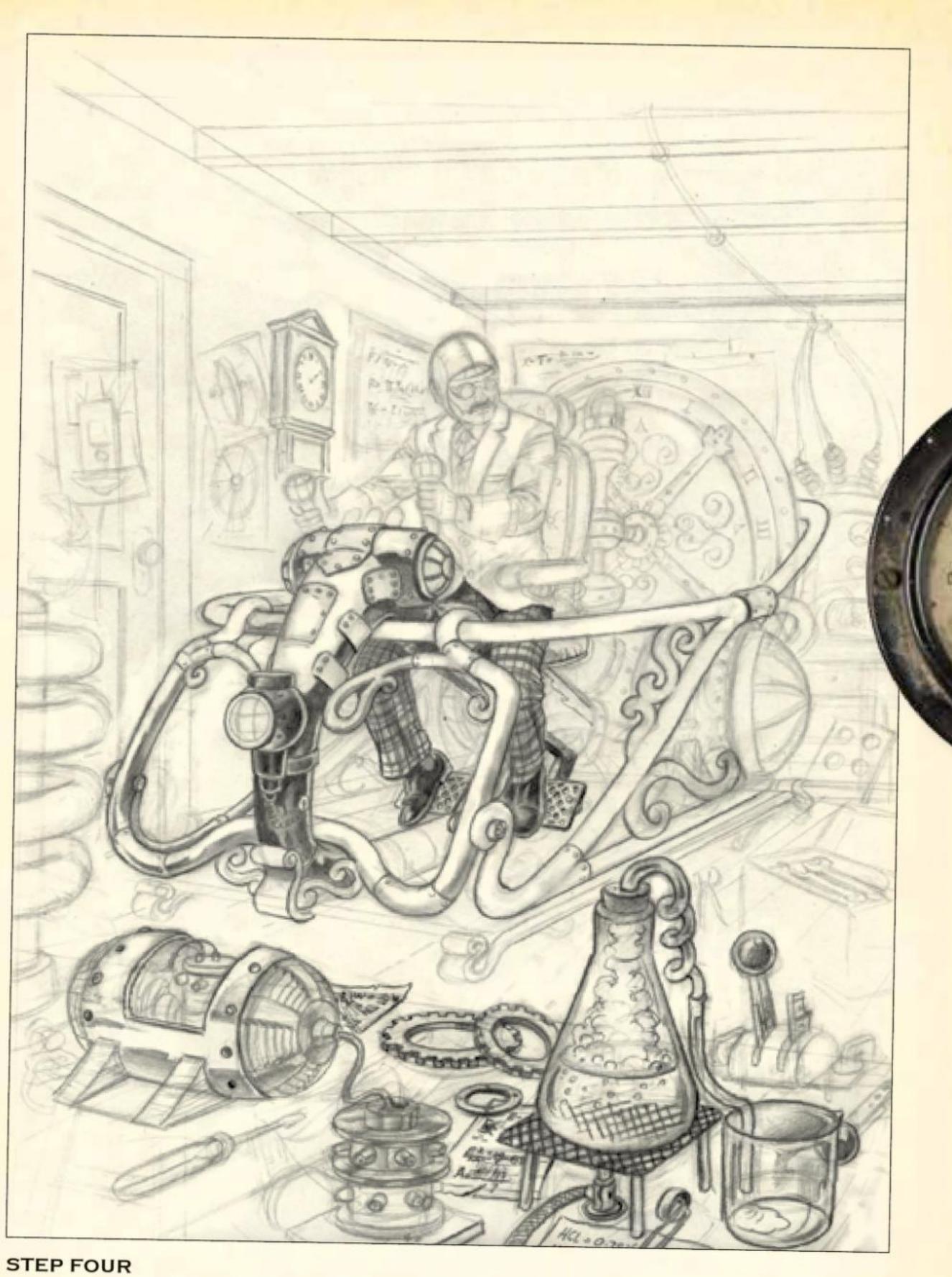




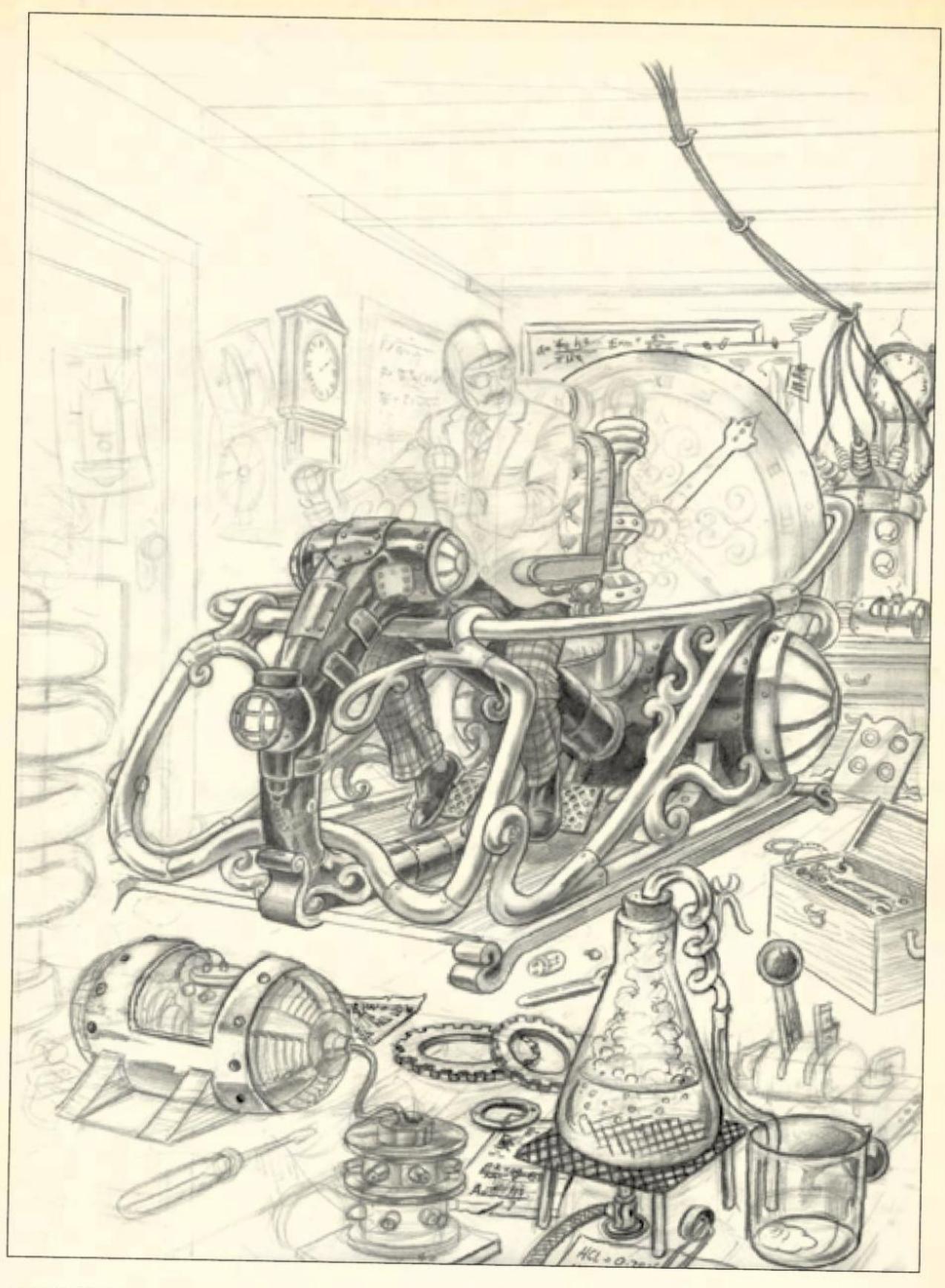
STEP TWO

Refine the structure of your time machine with a 2H pencil, adding decorative metalwork, fine-tuning the disk, and erasing unwanted lines as the drawing progresses. To assist with drawing the figure, pick up details from reference photos.





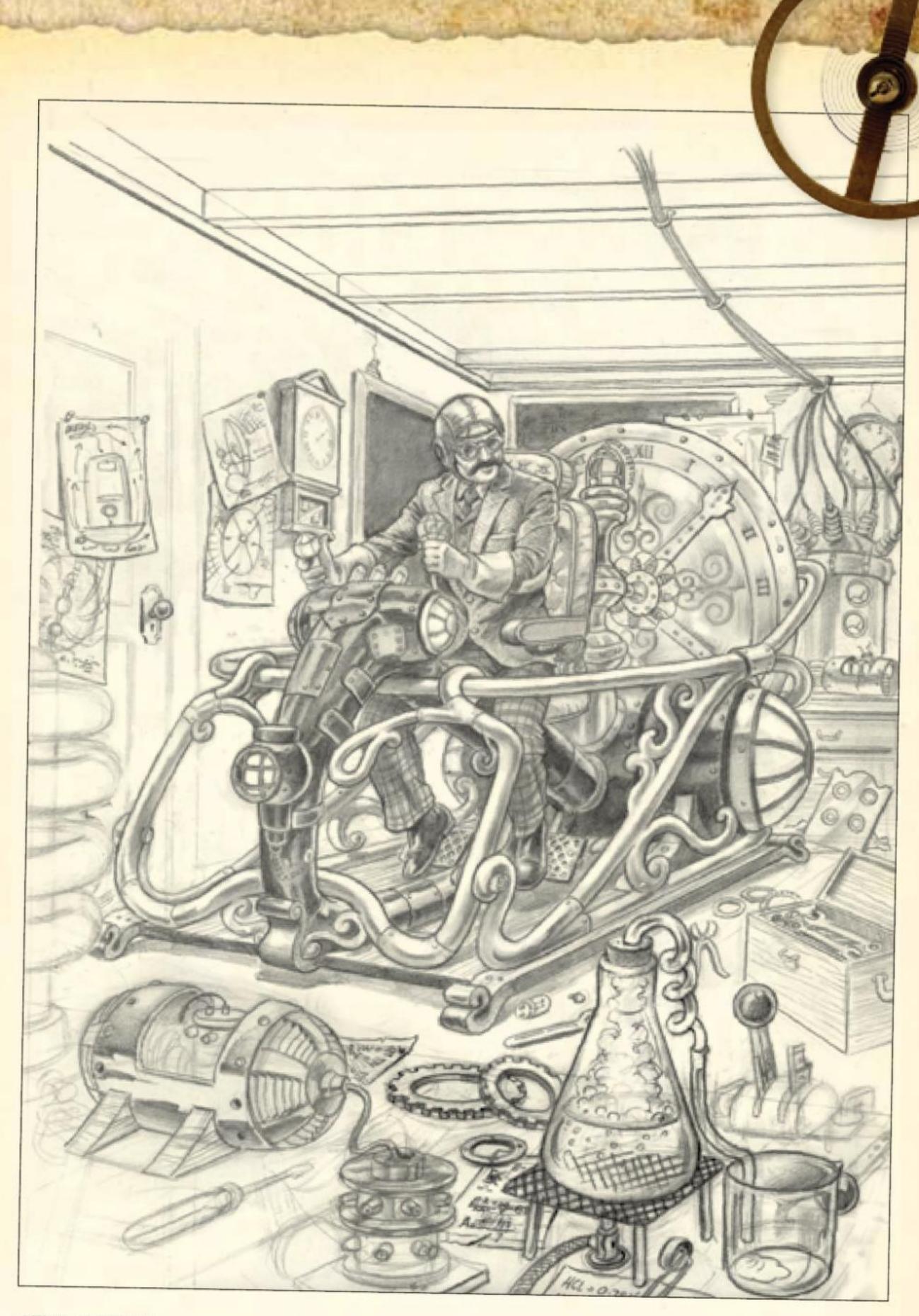
Now introduce some tonality and shading, which works with the line work to build form. Begin to build up the detail of the time traveler's plaid trousers. (See "Trousers Detail," page 110.)



STEP SIX

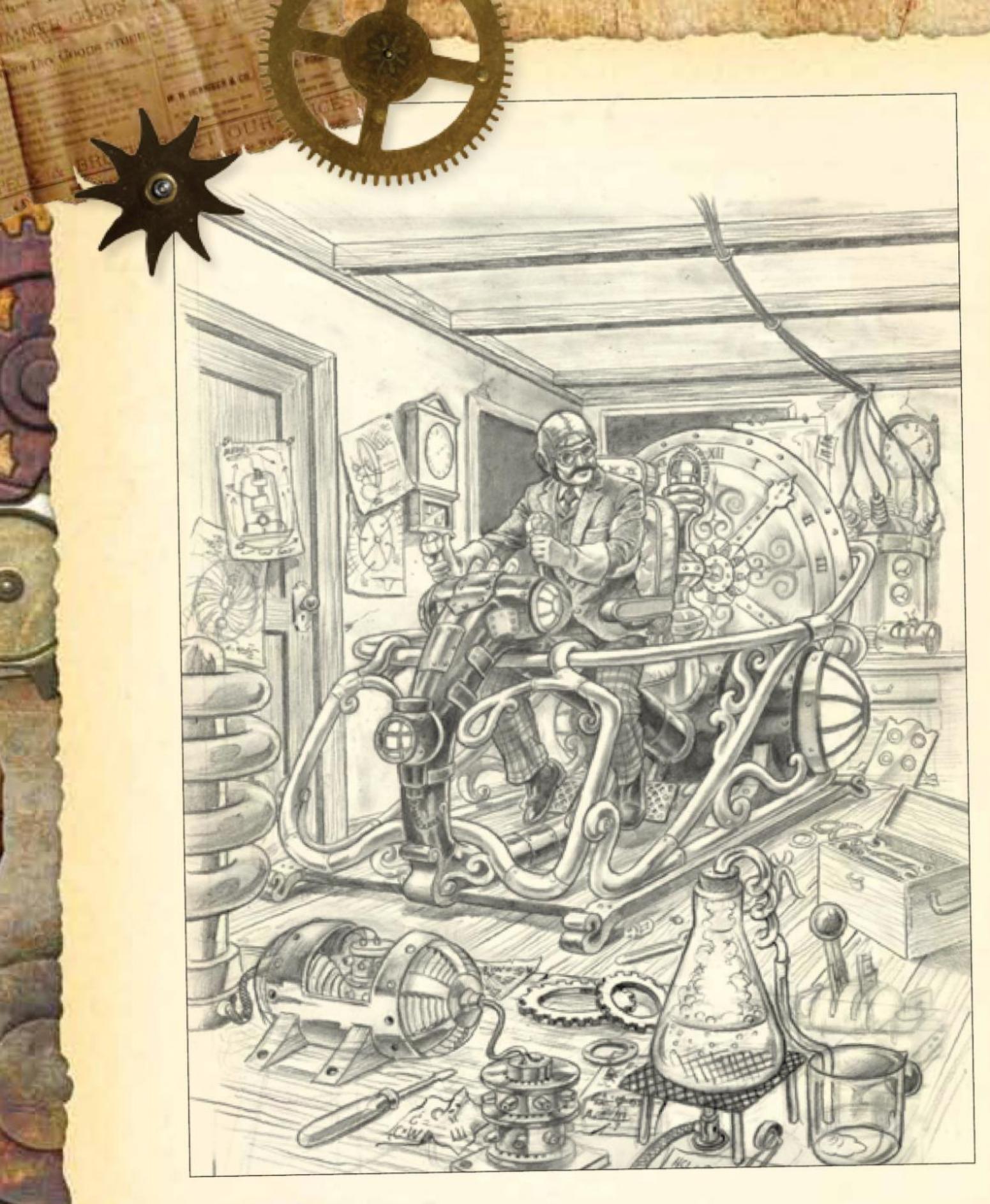
Next, begin to develop the middle ground. Refine the toolbox and boiler-like contraption behind the time machine, using shading to depict its round form. Contrasting light and dark areas helps create the illusion of depth.





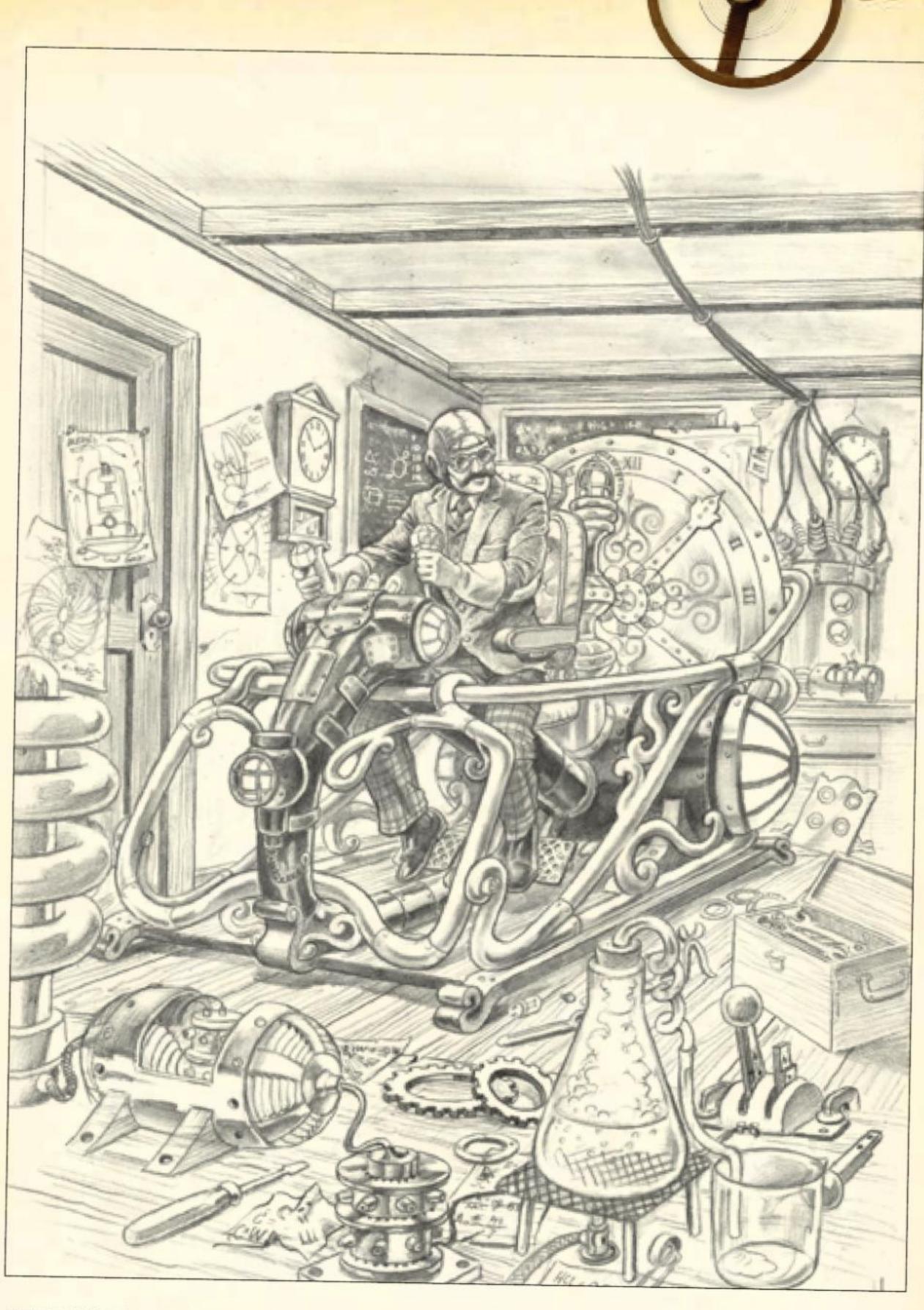
STEP SEVEN

Resolve the various background elements, such as the clocks, blueprints, and chalkboards. Continue to refine and soften the shading.



STEP EIGHT

Add wood textures to the door, ceiling rafters, and floor. This will make the drawing more interesting, add varying degrees of value, and help to define space and form. Finally, render the remaining foreground elements.



STEP NINE

Finish adding the last details, picking out highlights with a kneaded eraser. For additional enhancement, scan the finished drawing into Photoshop. I added a 10% gray tone to the ceiling, floor, and door, and used the digital stylus to write formulas on the blackboards.

STEAM CITY

A steampunk metropolis can take on an array of incarnations. It might take the form of a floating city connected to powerful airships drifting around miles above the earth. It might consist of a vast underwater network of biodomes deep in the ocean, with nautiluses docked in front of every family home. But the most classic image of a steam city calls forth images of building spires that reach upward into the sky, belching smoke and spitting steam. This city rises out of the earth to conquer the land and sky with fantastic contraptions, impressive airships, streets crowded with Victorian-esque men and women, and an aura of mystery lurking in the shadows. This street scene is colored with acrylic paint, an excellent medium for beginners.

BASIC ACRYLIC PAINT PALETTE

- CADMIUM YELLOW
- DEEP BRILLIANT RED
- IVORY BLACK
- LIGHT VIOLET
- PRUSSIAN BLUE
- TITANIUM WHITE
- YELLOW OCHRE
- ACRYLIC GESSO





FIGURE DETAIL

Fill the steam city with Victorian-era characters, using the previous lessons in the book for reference.

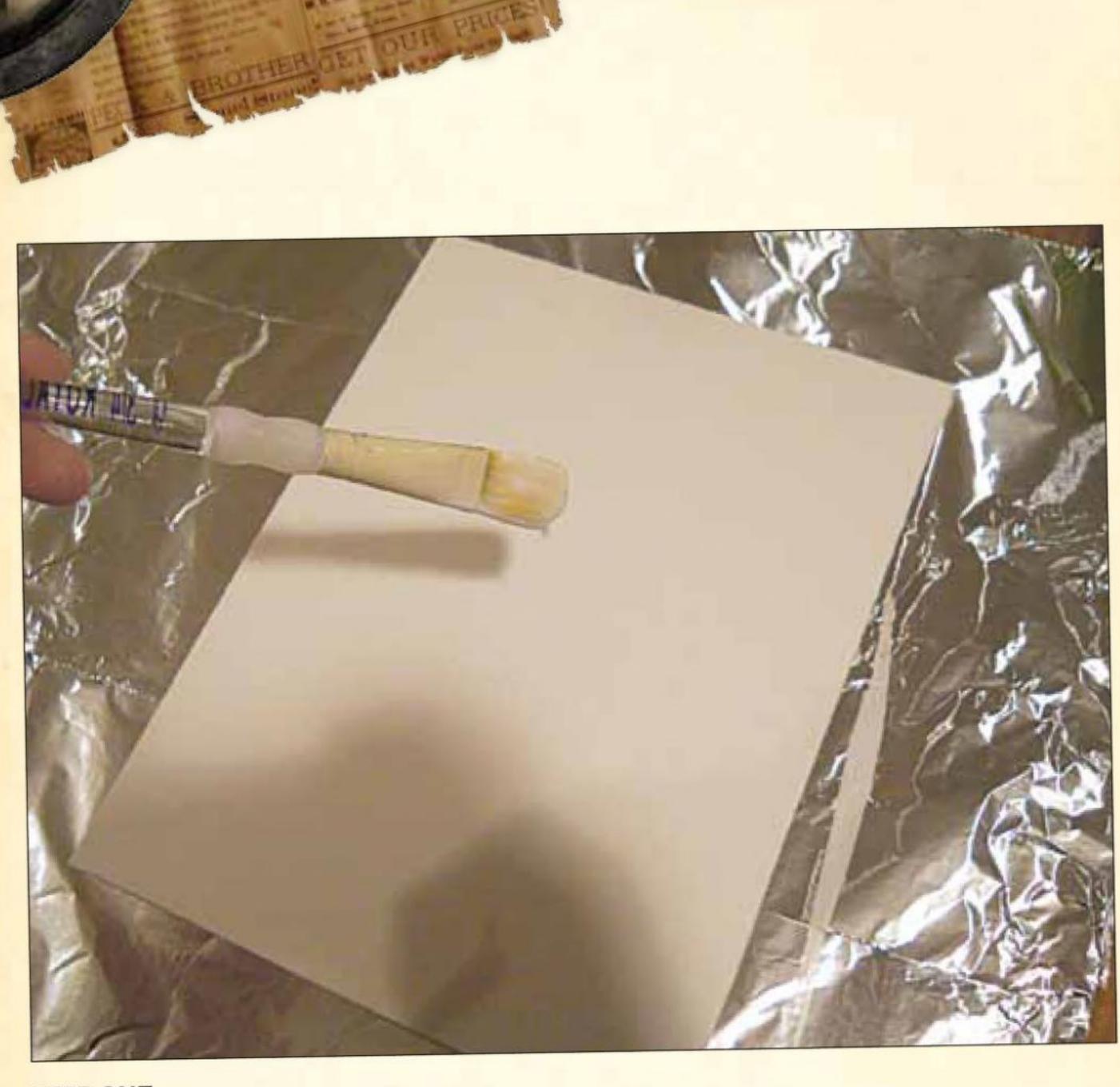
LOWER LEVEL DETAIL

Add an element of intrigue to your street scene by drawing walkways on multiple levels.



STEAM CITY DRAWING

Using the previous lessons in the book, draw a steampunk city scene in preparation to add color with acrylic paint. This image relies on the rules of perspective. (See "Perspective Basics," page 17). The street curves and the buildings shrink in size as they recede into the distance. A skyway dominates the skyline in the distance and has a perspective axis running roughly perpendicular to the street. Skyscrapers, airships, flying galleys, and ornithopters complete the scene, and gentle shading adds depth.



STEP ONE

MATTER

Scan your original drawing and then print it on a laser printer or make a photocopy. Use a pre-sized canvas board, Masonite board, or quarter-inch illustration board as a support. To prepare your surface, create a mixture of half water and half acrylic gesso, and then apply it to your support with a broad brush. Gesso is an acrylic paint medium that will serve as an adhesive for mounting the image to the board. This process can be messy, so protect your work surface with a plastic drop cloth or aluminum foil.



STEP THREE

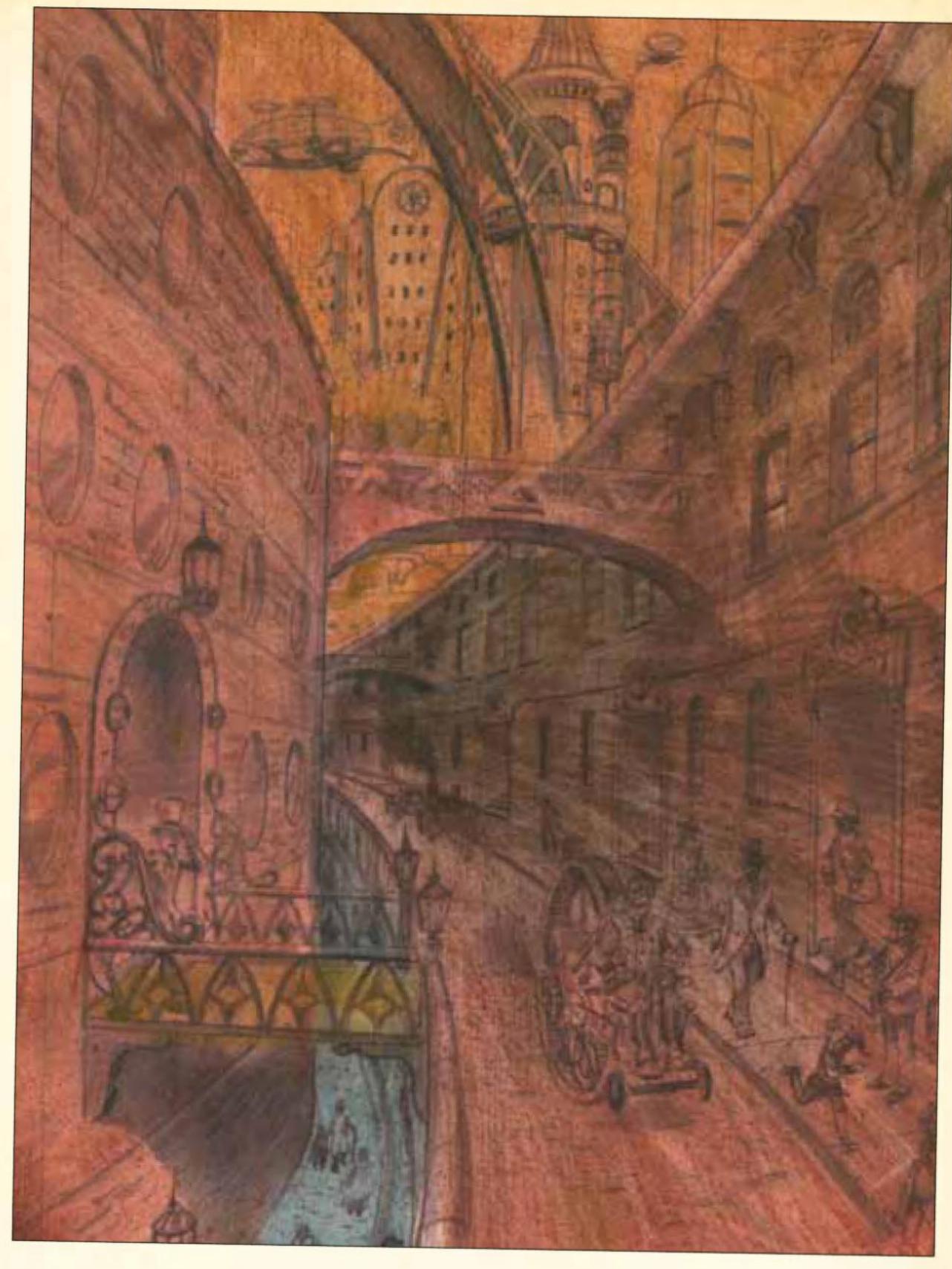
Next, coat the entire surface of the drawing with the same prepared gesso mixture, painting in directions that will enhance the forms, but taking care not to overwork it. The gesso will dry clear and provide a textured work surface for the application of acrylic paint.



STEP FOUR

Once the gesso has dried completely, create a shade of brick red by mixing deep brilliant red, yellow ochre, and a small amount of Prussian blue and ivory black. Use this mixture to coat the entire surface of the drawing, with brushstrokes moving in the direction of the buildings and street. This will serve as the underpainting.





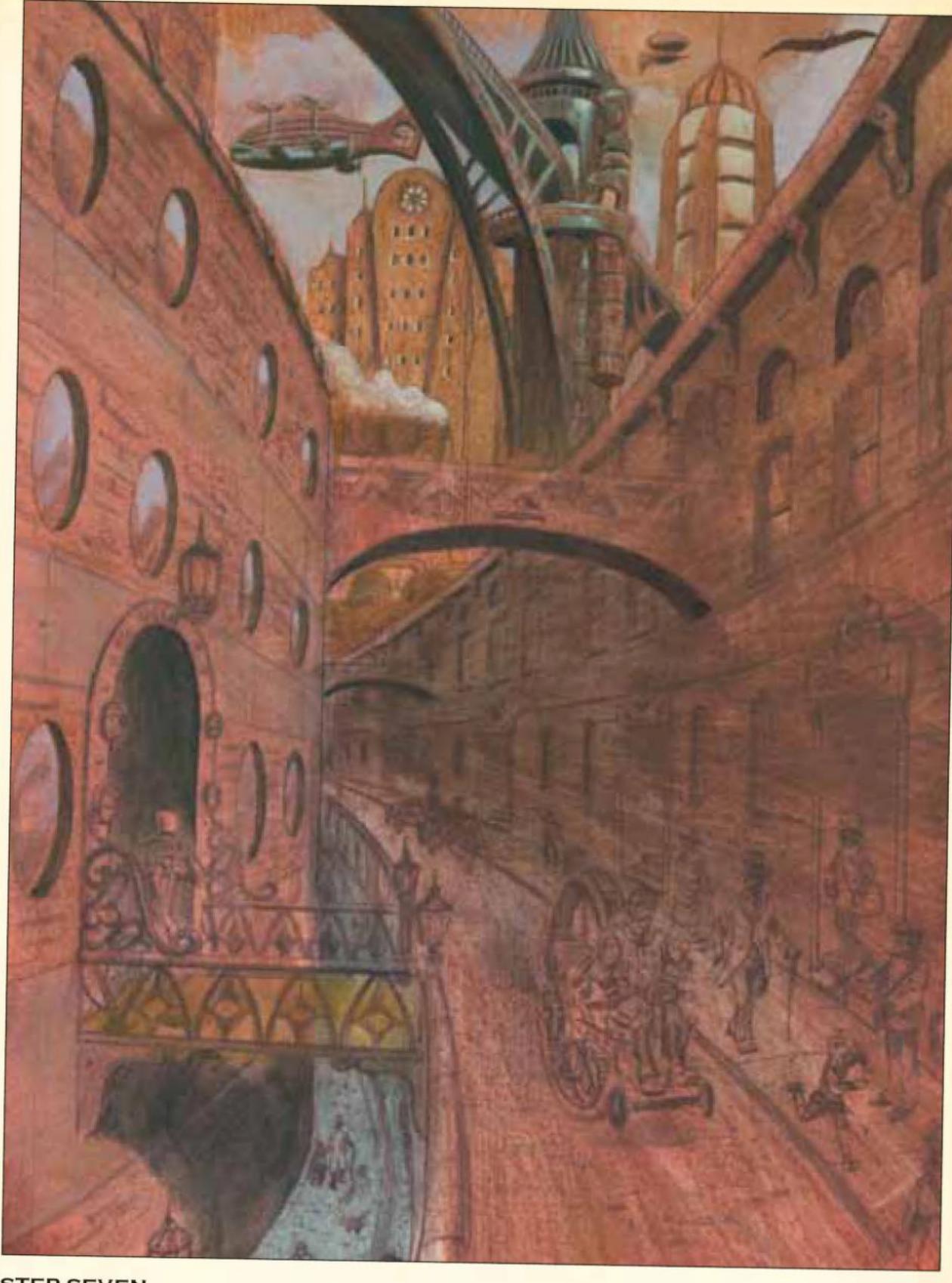
STEP FIVE

Add water to a bit of Prussian blue until the mix is heavily diluted. Use a flat brush to paint a wash over the lower-level street. With the same brush, use light strokes to feather blue into the areas of the buildings that recede into the distance. A few select lanterns placed around the archway on the left will cast a bit of light onto the gloomy scene. Paint in a light wash of cadmium yellow on the footbridge to begin to create this lighting effect.



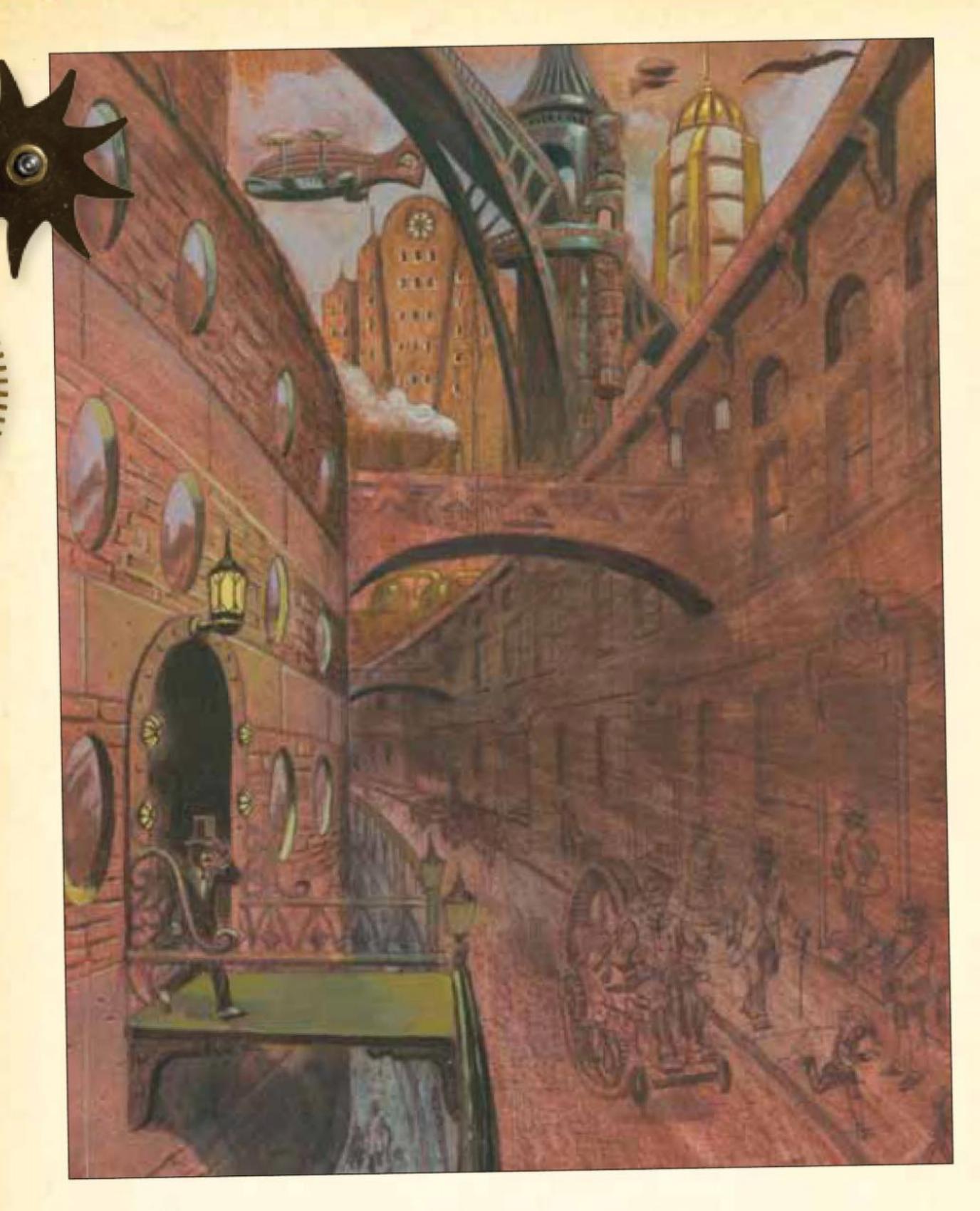
STEP SIX

With the same wash of Prussian blue used in step five, apply color to the skyway support tower. Then add a touch of titanium white to the wash and paint some highlights onto the iron tower. Mix a bit of light violet into this mixture and apply the wash to the cloud forms behind the airship. Add highlights to the building on the left. Create a mix of black and Prussian blue for the underside and shadow areas of the skyway (Prussian blue is transparent, so add several layers); then add detail to the shadow areas of the building at right. Create a light wash of yellow ochre and titanium white, and paint the right section of the polluted sky and add highlights to the spire behind the skyway. Add a bit more white to this mix, and paint the column of smoke spewing from the smokestack.



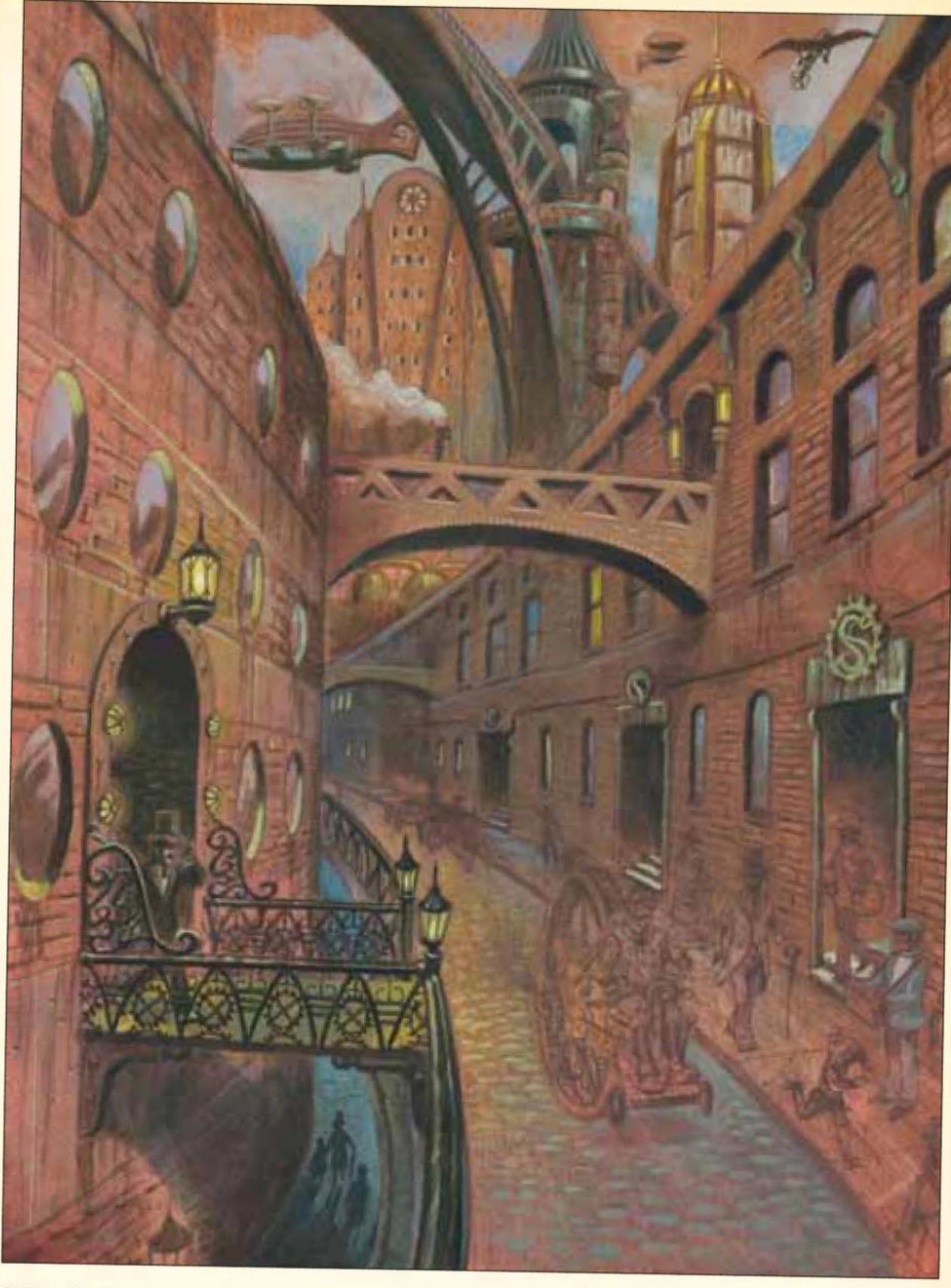
STEP SEVEN

With a mix of titanium white, Prussian blue, and light violet, apply color to the clouds for opacity. Then paint the round glass window panes on the left side to indicate reflected light from the lanterns. Next, with black and Prussian blue, enhance the shadow areas beneath the central walkway bridge, in the archway on the left-side building, and underneath the small footbridge.



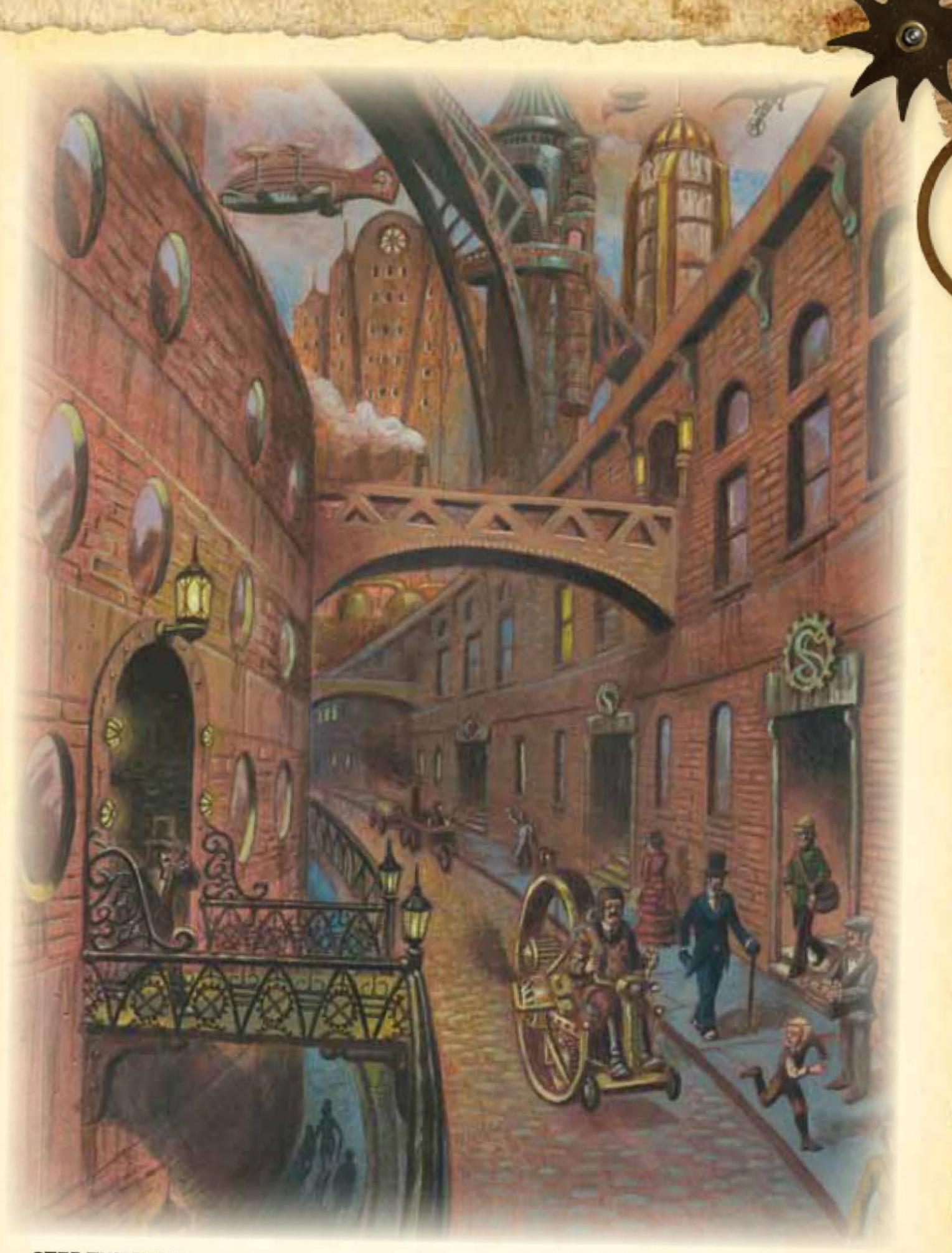
STEP EIGHT

As the painting progresses, use increasingly opaque paint, which will help to build up and refine form. Create a wash with cadmium yellow, and then lightly feather it around the lantern and wall around the archway. Add yellow ochre and white to make an opaque mixture of yellow, and then paint the surfaces illuminated by the light of the lantern. Paint the surface of the walkway with an opaque mix of yellow ochre, cadmium yellow, and white. Dilute this mixture and apply it to the lanterns at the end of the walkway and to the building above the raised walkway. Add more yellow ochre and cadmium yellow to this mix; then add details to the spire behind the skyway. This building will be bronze, so add some highlights to it using white mixed with cadmium yellow. Use this same mixture to paint the steam factory visible beneath the central walkway.



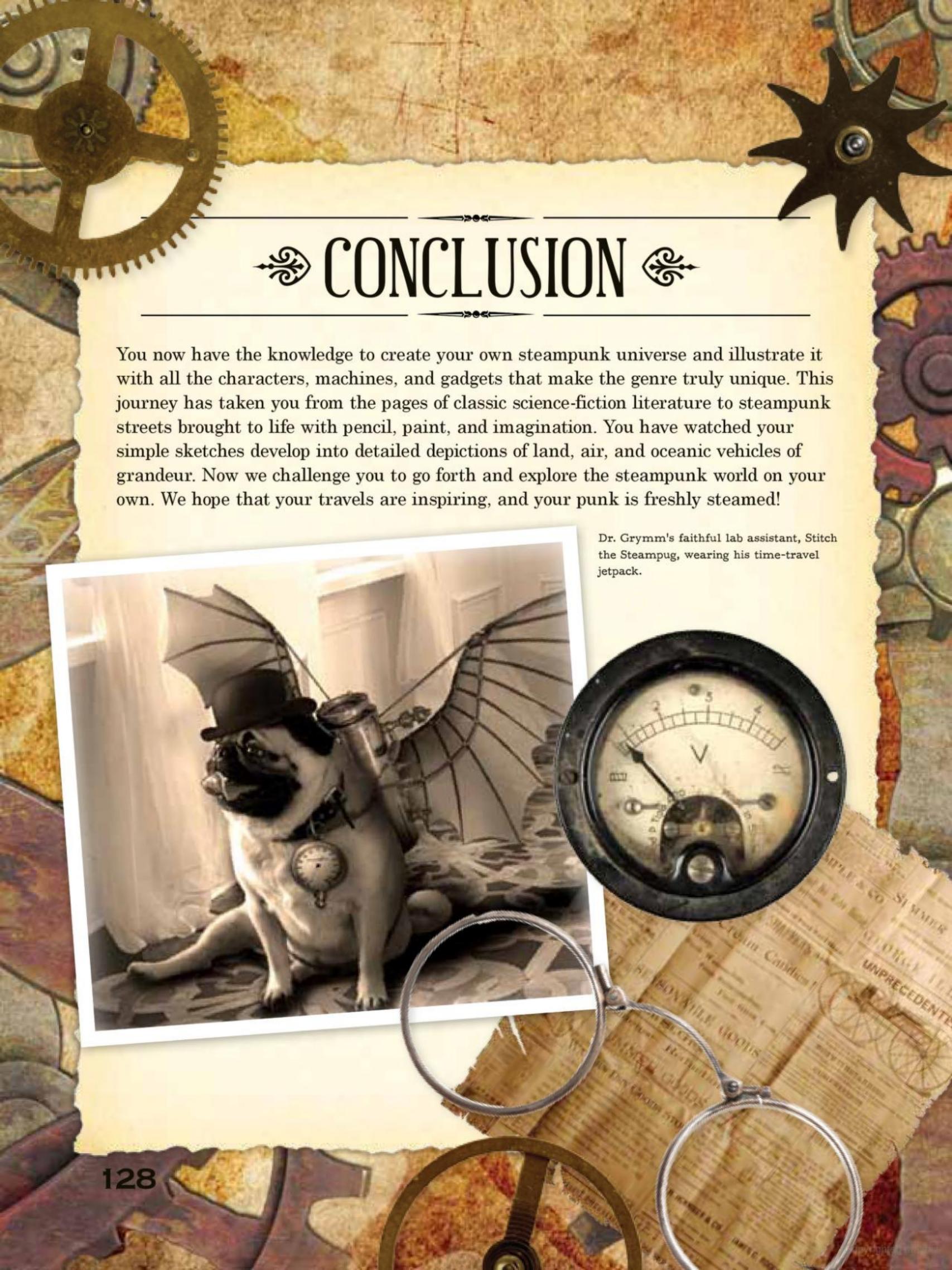
STEP ELEVEN

Use an opaque yellow to highlight the interior glow of the lanterns. Mix Prussian blue and light violet into the yellow color. Using diagonal brushstrokes, apply the mixture to indicate light radiating from the windows. Mix a blue-green color and use it to add a patina on various building details, such as the supports beneath the rooflines and the crests above each doorway. Use a blue-gray to initiate the detail on the street vendor on the right side of the scene. With a light value of brick red, create additional brick details throughout.



STEP THIRTEEN

Once every element in the painting has been added, look for areas of shadow that need enhancement, and go over them with an additional dark wash.



ABOUT THE ARTIST

— BOB BERRY —

While the mainstay of Bob Berry Illustration & Design is art for children's publishing and textbooks, Bob has also provided art and illustration services for interactive CDs, the Web, children's games and toy packaging, and character and costume design for the sports entertainment industry. After graduating from The State University of New York at Purchase, where he majored in painting and graphic design, Bob worked as a paste-up artist and draftsman. In his search for more creative work, he landed a job art directing magazines for a small publisher. Eventually, Bob opened his own graphics firm with a fellow artist, where he has been in business for himself ever since. Visit www.bobberryillustration.com.

ABOUT THE AUTHORS &

JOEY MARSOCCI & ALLISON DEBLASIO

Joey Marsocci and Allison DeBlasio are the husband and wife proprietors of Dr. Grymm Laboratories, a company that provides custom-designed steampunk props for production companies across the U.S. Their client list includes Disney, Warner Bros. Pictures, Landmark Entertainment Group, and Medicine Show Cinema, among others. Joey's contraptions and sculptures have been featured in steampunk publications and at steampunk exhibitions around the world, including the Steampunk Exhibit at the Oxford University History of Science Museum in 2010. Joey was recently featured in a BBC World News America segment about steampunk. The couple currently resides in Middletown, Connecticut. Visit www. drgrymmlaboratories.net.