

Sketchup Construction Drawing Beginner

Alexander C. Schreyer

Sketchup Construction Drawing Beginner:

Beginning Google Sketchup for 3D Printing Sandeep Singh, 2011-07-30 The age of 3D printing and personal fabrication is upon us You ve probably heard of the incredibly sophisticated yet inexpensive 3D printers that can produce almost any creation you give them But how do you become part of that revolution Sandeep Singh takes you through the skills you need to learn and the services and technologies you need to know explaining what 3D printing is how it works and what it can do for you You ll find yourself rapidly prototyping and learning to produce complex designs that can be fabricated by online 3D printing services or privately owned 3D printers in your hands in no time Beginning Google SketchUp for 3D Printing starts by explaining how to use SketchUp and its plug ins to make your design products You will learn how to present and animate 3D models and how to use Google Earth and 3D Warehouse to sell and market your 3D models You ll also catch a glimpse of the 3D printing s future so you can plan ahead while mastering today s tools Beginning Google SketchUp for 3D Printing is the perfect book for 3D designers hobbyists woodworkers craftspeople and artists interested in the following Designing in 3D using SketchUp Using the online 3D printing pipeline Animating SketchUp 3D models Becoming familiar with rapid prototyping technology Navigating new 3D and personal fabrication technologies Working with Google Earth and 3D Warehouse with confidence Welcome to the era of 3D printing and personal fabrication SketchUp Workflow for Architecture Michael Brightman, 2018-06-25 A guide for leveraging SketchUp for any project size type or style New construction or renovation The revised and updated second edition of The SketchUp Workflow for Architecture offers guidelines for taking SketchUp to the next level in order to incorporate it into every phase of the architectural design process The text walks through each step of the SketchUp process from the early stages of schematic design and model organization for both renovation and new construction projects to final documentation and shows how to maximize the LayOut toolset for drafting and presentations Written by a noted expert in the field the text is filled with tips and techniques to access the power of SketchUp and its related suite of tools The book presents a flexible workflow method that helps to make common design tasks easier and gives users the information needed to incorporate varying degrees of SketchUp into their design process Filled with best practices for organizing projects and drafting schematics this resource also includes suggestions for working with LayOut an underused but valuable component of SketchUp Pro In addition tutorial videos compliment the text and clearly demonstrate more advanced methods This important text Presents intermediate and advanced techniques for architects who want to use SketchUp in all stages of the design process Includes in depth explanations on using the LayOut tool set that contains example plans details sections presentations and other information Updates the first edition to reflect the changes to SketchUp 2018 and the core functionalities menus tools inferences arc tools reporting and much more Written by a SketchUp authorized trainer who has an active online platform and extensive connections within the SketchUp community Contains accompanying tutorial videos that demonstrate some of the more

advanced SketchUp tips and tricks Written for professional architects as well as professionals in interior design and landscape architecture The SketchUp Workflow for Architecture offers a revised and updated resource for using SketchUp in The SketchUp Workflow for Architecture Michael Brightman, 2018-06-25 A all aspects of the architectural design process guide for leveraging SketchUp for any project size type or style New construction or renovation The revised and updated second edition of The SketchUp Workflow for Architecture offers guidelines for taking SketchUp to the next level in order to incorporate it into every phase of the architectural design process The text walks through each step of the SketchUp process from the early stages of schematic design and model organization for both renovation and new construction projects to final documentation and shows how to maximize the LayOut toolset for drafting and presentations Written by a noted expert in the field the text is filled with tips and techniques to access the power of SketchUp and its related suite of tools The book presents a flexible workflow method that helps to make common design tasks easier and gives users the information needed to incorporate varying degrees of SketchUp into their design process Filled with best practices for organizing projects and drafting schematics this resource also includes suggestions for working with LayOut an underused but valuable component of SketchUp Pro In addition tutorial videos compliment the text and clearly demonstrate more advanced methods This important text Presents intermediate and advanced techniques for architects who want to use SketchUp in all stages of the design process Includes in depth explanations on using the LayOut tool set that contains example plans details sections presentations and other information Updates the first edition to reflect the changes to SketchUp 2018 and the core functionalities menus tools inferences arc tools reporting and much more Written by a SketchUp authorized trainer who has an active online platform and extensive connections within the SketchUp community Contains accompanying tutorial videos that demonstrate some of the more advanced SketchUp tips and tricks Written for professional architects as well as professionals in interior design and landscape architecture The SketchUp Workflow for Architecture offers a revised and updated resource for using SketchUp in all aspects of the architectural design process **SketchUp to LavOut** Matt Donley, 2014-01-31 The SketchUp to LayOut book is the essential guide for woodworkers carpenters architects contractors builders and designers who already know the basics on how to use SketchUp but are looking to create stunning presentations to visualize their ideas with their clients using LayOut Learn the workflow for creating models specifically for LayOut Before you even begin modeling that first rectangle you ll need to fully understand which type of model you should be building for LayOut Don t make the mistake of creating twice the amount of work for yourself because you didn t properly organize your model ahead of time I ll teach you how to save time and frustration by organizing your model so YOU are in control of how your model viewports look The entire first half of the book is dedicated to preparing your model for LayOut From organizational workflow to scenes and styles I share with you my 5 point method I use to visualize and prepare every scene I create for LayOut Not only will you understand exactly what those five points are you ll learn multiple ways to control them

Using these methods you will gain complete control over the look of your viewports in LayOut You will master every aspect of a SketchUp scene and style to enable you to create impressive presentations and drawings in the least amount of time possible Is this too advanced for me This book is designed for construction professionals who don't have any prior experience in LayOut at all But it's also structured in a way that lets you look up specific tasks or methods without having to read the book cover to cover I ll save you all the time and frustration that I went through when I first learned LayOut by quickly orienting you with the workspace then jumping right in to creating your own titleblock inserting SketchUp models and adding dimensions You should have some basic knowledge on how to use SketchUp But if you re just starting out you ll have complete access to my entire library of tutorials and videos for free on my website to bring you up to speed quickly Every important aspect of LayOut is explained in the book with step by step instructions for you to follow along Learn exactly what you need to know and skip over all the little details you don t need to worry about The book has been updated for 2014 so you ll even learn about the new Auto Text tag feature saving you a ton of time on those redundant text edits You ll see REAL examples The sample projects in the book are real projects not hypothetical meaningless shapes and boxes so you can see exactly how to apply the concepts you learn in context with the real world Plus the SketchUp and LayOut files are included with each book download so you ll be able to follow along and discover for yourself how to organize a similar project of your own The sample projects include a woodworking table project akitchen project and a three story house project At the same time each step by step instruction can be read and followed independently from the project So if you need to go back and reference a certain part of the book to learn how to do something specific you ll be able to do that too Advanced Techniques I ve consulted with many of the best SketchUp gurus in the world I ve hung out with Nick Sonder at the SketchUp basecamp conference I ve interviewed Aidan Chopra SketchUp evangelist and author of Google SketchUp for Dummies Eric Schimelpfenig from SketchThis net and Alexander Schreyer author of Architectural Design with SketchUp I ve also consulted with Mike Brightman author of The SketchUp Workflow for Architecture Daniel Tal author of Rendering In SketchUp and many other great SketchUp experts The SketchUp Handbook for Interior Design Rebecca Terpstra, Dana Hoffman, 2024-06-14 Take your SketchUp skills to the next level to build complex captivating 3D designs and presentations for interior spaces that will leave a lasting impression on your clients Key Features Expand your SketchUp toolbox and create a seamless 3D modeling workflow specific to interior designers and architects Learn how extensions can enhance the power of SketchUp and boost your productivity Elevate your design presentations with SketchUp LayOut and create photorealistic renders Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionDesign professionals often find it hard to help their clients visualize their unique concepts and visions Luckily SketchUp bridges this communication gap with a powerful set of tools for visualizing and presenting your design ideas This book teaches the approach perfected by two successful interior designers who have mastered SketchUp Pro Studio to generate a workflow that produces fascinating

designs and enables you to communicate them through vivid illustrations Starting with a review of the basics of creating 3D models this book introduces Becca s Hierarchy of Modeling a ten step process that establishes a rhythmic pattern in your workflow As you progress you ll build on your SketchUp Pro knowledge by constructing architectural elements of a commercial building and furnishing a residential room with your own furniture fixtures and equipment FFE from scratch From infusing photorealism into models to crafting appealing client presentations using SketchUp LayOut this book has you covered Each chapter provides step by step explanations of essential concepts and practical examples to reinforce learning By the end of this book you ll have an advanced understanding of SketchUp Pro s capabilities ensuring you enjoy working on conceptual or full design projects from start to finish and showing off your design prowess What you will learn Model accurately with Rebecca's hierarchy of modeling Experiment with colors materials and custom textures to enhance design details Explore 3D Warehouse for FFE and build furniture and architectural features using design tools from the Extension Warehouse Model a floor plan from hand drawings CD sets AutoCAD files or Revit files Craft stunning client presentations using SketchUp LayOut Achieve photorealistic rendering using extensions or plugins such as SU Podium Who this book is for If you know how to navigate SketchUp but are new to applying SketchUp Pro Studio in the world of interior design this book is for you Whether you are an architect interior designer or aspiring designer this book will transform the design process for you and your clients Basic knowledge of SketchUp Pro or Studio s toolbars and camera views is assumed with SketchUp Pro David S. Sellers, 2023-04-28 Level up your 3D design skills with SketchUp Pro by employing real world examples and design guidelines in this illustrated guide Purchase of the print or Kindle book includes a free PDF eBook Key Features Put your architectural design knowledge to work by exploring practical examples Gain a deeper understanding of SketchUp's GUI modeling tools and editing features Execute full design creations with detailed steps without getting overwhelmed by SketchUp s advanced functionalities Book DescriptionOwing to its ability to create models quickly and with high level of dimensional accuracy SketchUp Pro has become a popular choice for many industries including architecture interior design landscape architecture and video game design If you are seeking to adopt Trimble s exceptional design software Getting Started with SketchUp Pro serves as an ideal primer to prepare and equip you for its use This book will help you lay the foundation of a project from scratch set up appropriate units and follow a guided path to structure your 3D models You ll explore the workflows used for creating designs from sketches making CAD drawings DWG and even updating your existing 3D models Finally you ll work with extensions and 3D Warehouse to find new workflows and models to add to your skill set By the end of this SketchUp book you ll be able to confidently create and share models of your design through CAD drawings and 3D views and even take them online through the 3D WarehouseWhat you will learn Build massing 3D models and preliminary designs Identify optimal methods to boost productivity and efficiency with SketchUp Pro Explore SketchUp tools and understand their diverse functionality Get a complete walkthrough of editing tools materials and

components in SketchUp Create and edit components and explore component options Get acquainted with SketchUp extensions 3D Warehouse and additional tools and resources Who this book is for This book is for architects landscape architects interior designers woodworkers and 3D modelers with beginner level knowledge of the architectural design of living spaces Basic computer skills are all you need to get started **Drafting Fundamentals for the Entertainment** Classroom Eric Appleton, 2021-11-22 Drafting Fundamentals for the Entertainment Classroom A Process Based Introduction to Hand Drafting Vectorworks and SketchUp guides students through a syllabus formatted semester of integrated drafting concepts and skills This book links beginner visualization practices with fundamental software knowledge through step by step exercises and examples By presenting hand drafting and Vectorworks through incremental exercises students not only gain an understanding of the tools used in drafting but also learn why the tools practices and standards exist in the first place SketchUp a user friendly 3D modeling program is integrated into the various exercises to help readers visualize concepts and begin modeling their own ideas By the end of the book students will understand drawing construction techniques United States Institute for Theatre Technology USITT recommended graphic standards and the typical drawings created for entertainment design preparing them to dive more deeply into the further complexities and opportunities of Vectorworks and SketchUp Drafting Fundamentals for the Entertainment Classroom is written to complement a 14 or 15 week semester of an Entertainment Drafting course The book s format also provides structure for independent and self directed study

Architecture For Beginners Nicky Huys, 2024-06-27 Architecture For Beginners is a comprehensive guide that demystifies the world of architecture for newcomers From ancient marvels to modern skyscrapers this book explores the evolution of architectural design building techniques and the cultural impact of iconic structures Readers will delve into the principles of architectural theory learn about influential architects and gain insights into urban planning and sustainable design With engaging visuals and accessible language this book is a valuable resource for anyone seeking to understand and appreciate the art and science of architecture **Drawing Basics and Video Game Art** Chris Solarski, 2012-09-18 This book supports my own 30 year crusade to demonstrate that games are an art form that undeniably rivals traditional arts It gives detailed explanations of game art techniques and their importance while also highlighting their dependence on artistic aspects of game design and programming John Romero co founder of id Software and CEO of Loot Drop Inc Solarski s methodology here is to show us the artistic techniques that every artist should know and then he transposes them to the realm of video games to show how they should be used to create a far more artful gaming experience if I were an artist planning to do video game work I d have a copy of this on my shelf Marc Mason Comics Waiting Room Video games are not a revolution in art history but an evolution Whether the medium is paper or canvas or a computer screen the artist s challenge is to make something without depth seem like a window into a living breathing world Video game art is no different Drawing Basics and Video Game Art is first to examine the connections between classical art and video games enabling developers to

create more expressive and varied emotional experiences in games Artist game designer Chris Solarski gives readers a comprehensive introduction to basic and advanced drawing and design skills light value color anatomy concept development as well as detailed instruction for using these methods to design complex characters worlds and gameplay experiences Artwork by the likes of Michelangelo Titian and Rubens are studied alongside AAA games like BioShock Journey the Mario series and Portal 2 to demonstrate perpetual theories of depth composition movement artistic anatomy and expression Although Drawing Basics and Video Game Art is primarily a practical reference for artists and designers working in the video games industry it is equally accessible for those interested to learn about gaming is future and potential as an artistic medium Also available as an eBook SketchUp For Dummies Aidan Chopra, Rebecca Huehls, 2017-03-03 Design almost anything in 3D with SketchUp Whether you ve dabbled in drawing in 3D or are interested in learning the basics of design SketchUp For Dummies makes it fast and easy to learn the ropes of a powerful user friendly tool to bring your design ideas to life From creating a basic 3D model to showing off your work via 3D print or animation this all access guide pulls back the curtain on using SketchUp to do anything from redesigning your house to mocking up the next great invention With an emphasis on usability SketchUp has found very wide success as a tool even non designers can use to make basic drawings And now thanks to the insight and expert tips from former SketchUp product director Aidan Chopra and co author Rebecca Huehls this easy to follow guide makes it more accessible than ever Create buildings and components Alter the appearance of your model Tour your designs via SketchUp Get quick tips on troubleshooting If you re a designer with sketchy computer modeling skills SketchUp For Dummies is the trusted reference you ll turn to again and again **Interior Design Using Hand Sketching, SketchUp and Photoshop** Steven H. McNeil, Daniel John Stine, 2011 This book is designed for the interior designer wanting to use hand sketching techniques Google SketchUp and Adobe Photoshop together to create beautiful designs and presentations This book will teach you how to come up with fresh new design ideas and how to save time by using these powerful tools and techniques This book presumes no previous experience with any of these tools and is divided into three sections In the first section you will learn to use SketchUp and Photoshop starting with navigating the interface and than learning their features In the next section you will learn hand sketching techniques and how to combine these with digital tools In the last section of the book you will complete an interior design project leveraging the tools and techniques you learned in previous chapters while learning a few new techniques along the way The first two chapters cover computer basics including managing files and knowing your way around the operating system The next three chapters introduce the reader to SketchUp an easy to use 3D modeling program geared specifically towards architecture Chapters six and seven present the basic tools found in Photoshop which is the industry standard raster image editing software Once you have worked through all the technology related introduction chapters you will explore four chapters on various aspects of hand sketching These chapters mainly focus on interior drawing concepts The final four chapters work through the concept design

process for an interior fit out project The intent is that the reader would recreate these drawings as they appear in the book The goal is to focus on understanding the process and developing the required techniques rather than getting bogged down Taking SketchUp Pro to the Next Level Aaron Dietzen aka 'The SketchUp Guy', 2022-09-28 in design right away Create beautiful custom materials and leverage powerful extensions for efficient modeling Key FeaturesUnderstand how to get the most out of SketchUp's powerful native tools with key images printed in colorCustomize and transform your workspace for efficient 3D modelingGo beyond SketchUp's capabilities with extensions and free online resourcesBook Description Anyone who s worked with it will know that SketchUp is the guickest and easiest way to create 3D models While its approachable interface makes it super easy to learn this book will show you how the extremely capable SketchUp software can take you far beyond what you may have initially thought possible Get ready to level up from a basic user to becoming a SketchUp ninja Each chapter will take you through the capabilities of SketchUp challenging you to use tools in innovative ways This includes organizing your model modifying native commands customizing your interface utilizing inferencing and much more Additionally you ll learn about the extensions that can be added to SketchUp to supplement the tools you have been using allowing you to make your 3D modeling process guicker easier and more powerful By the end of this SketchUp book you ll have an enhanced understanding of how to use the impressive range of tools and be on your way to customizing SketchUp for your one of a kind workflow What you will learnRecap the basics of navigation and SketchUp's native modeling toolsModify commands toolbars and shortcuts to improve your modeling efficiencyUse default templates as well as create custom templatesOrganize your models with groups components tags and scenesAnalyze your own modeling workflow and understand how to improve itDiscover extensions and online repositories that unlock the advanced capabilities of SketchUpLeverage your existing SketchUp Pro subscription for even better resultsWho this book is for This book is for designers architects and professional modelers who have used SketchUp before perhaps self taught or have completed software training but find themselves needing more than just the basics from SketchUp The book assumes that you have spent some time in SketchUp and have basic modeling experience The Complete SketchUp Companion for Interior Design Andrew Brody, 2018-02-22 The Complete SketchUp Companion for Interior Design focuses on the skills and requirements necessary to design and explore interiors from composing views to managing the structure of the model for tracking objects in schedules and keys Organized by skill type the book mimics the layered nature of the software where a general base skill set is enhanced and deepened through more advanced focused explorations and exercises With concise explanations and helpful boxed features ranging from basic to advanced topics The Complete SketchUp Companion for Interior Design will be equally useful for beginning users and for those who already have knowledge of basic skills but find themselves in common I need to know type situations in the design studio The Complete SketchUp Companion for Interior Design STUDIO Study smarter with self quizzes featuring scored results and personalized study tips Review concepts with

flashcards of terms and definitions Watch video tutorials to learn essential techniques Download template files to practice your skills PLEASE NOTE Purchasing or renting this ISBN does not include access to the STUDIO resources that accompany this text To receive free access to the STUDIO content with new copies of this book please refer to the book STUDIO access **CAD for Interiors Basics, with DVD** Joseph A. Fiorello, 2009-02-03 CAD for Interiors card bundle ISBN 9781501322006 Basics is a practical guide to getting started in AutoCAD r for interior designers Taking a hands on approach the reader is taken on a step by step process to draw a detailed building floor plan Beginning with instruction on how to create project templates the reader works their way up to a professional quality presentation The basics of Architectural Desktop r and 3 D CAD are also included An included DVD complements the book presenting videos of detailed AutoCAD r commands demonstrating the book s instruction using a unique audio visual approach No other product for designers offers a blended approach to make learning visually exciting and effective Integrated Drawing Techniques Robert Philip Gordon, 2016-01-14 Since the appearance of simplified 3D sketching programs like SketchUp architects and interior designers have been called on to use both freehand and 3D CAD drawings often at very earliest stages of design Since we must often go back and forth between analytical plan views and 3D visual views it s important that this be a seamless process requiring little disruptive action or break in the workflow Integrated Drawing Techniques closes the gap between creativity and geometry teaching beginner architects and interior designers how to design their residential interiors using freehand sketching and computer aided design simultaneously From concept planning to 3D rendering this book is a comprehensive guide to designing residences by hand and computer SketchUp to LayOut: The Essential Guide to Creating Construction Documents with SketchUp Pro & LayOut Matt Donley, 2015-07-04 The SketchUp to LayOut book is the essential guide for woodworkers carpenters architects contractors builders and designers who already know the basics on how to use SketchUp but are looking to create stunning presentations to visualize their ideas with their clients using LayOut Learn the workflow for creating SketchUp models specifically for LayOut Before you even begin modeling that first rectangle you ll need to fully understand which type of model you should be building for LayOut Don t make the mistake of creating twice the amount of work for yourself because you didn t properly organize your model ahead of time I ll teach you how to save time and frustration by organizing your model so YOU are in control of how your model viewports look The entire first half of the book is dedicated to preparing your model for LayOut From organizational workflow to scenes and styles Then I share with you my 5 step method to visualize and prepare every scene I create for LayOut These 5 steps will give you full control over the look of your model in LayOut Visible Objects Control what s visible in your scene by hiding or unhiding layers Foreground Depth Set the viewing plane depth at which you begin to see objects in your scene By default the foreground depth starts at the location of your camera but you can manually set a foreground depth using section cuts and clipping planes Background Depth Set how deep into the model you want to see by using object masks or fog Camera

Perspective Position your camera to the view you want to see and configure your field of view and perspective settings Style Determine how your model will look This includes render settings for the faces and edges in your model but also includes specialty settings like watermarks guides and section planes Not only will you understand exactly what those five points are you ll learn multiple ways to control them Using these methods you will gain complete control over the look of your viewports in LayOut You will master every aspect of a SketchUp scene and style to enable you to create impressive presentations and drawings in the least amount of time possible Who is this book for This book is designed for construction professionals who don't have any prior experience in LayOut at all But it's also structured in a way that lets you look up specific tasks or methods without having to read the book cover to cover I ll save you all the time and frustration that I went through when I first learned LayOut by quickly orienting you with the workspace then jumping right in to creating your own titleblock inserting SketchUp models and adding dimensions You should have some basic knowledge on how to use SketchUp But if you re just starting out you ll have complete access to my entire library of tutorials and videos for free on my website to bring you up to speed quickly Every important aspect of LayOut is explained in the book with step by step instructions for you to follow along Learn exactly what you need to know and skip over all the little details you don't need to worry about The book has been updated for 2014 so you ll even learn about the new Auto Text tag feature saving you a ton of time on those redundant Architectural Draughtsman (Theory) - II Mr. Rohit Manglik, 2024-05-18 EduGorilla Publication is a trusted text edits name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels Google SketchUp Workshop Laurent Brixius, 2012-10-12 Discover the secrets of the Google SketchUp with the 16 real world professional level projects including parks structures concept art and illustration Google SketchUp Workshop includes all the wide variety of projects that SketchUp can be used for architectural visualization landscape design video game and film conception and more SketchUp masters in every field will get you up to speed in this agile and intuitive software and then show you the real uses with through projects in architecture engineering and design Architectural Design with SketchUp Alexander C. Schreyer, 2012-11-20 the book is wonderfully illustrated with full color and descriptive images that complement each tutorial or exercise Alex s teaching background really rings through as every item is nicely structured and very informative Overall Alex s book is a winner Well structured illustrated and most of all easy to read and understand While the overall theme is based in architecture the techniques can be applied to any discipline and the wide range of topics covered are excellently delivered Richard O Brien CatchUp Editor the official SketchUcation newsletter The one stop guide to SketchUp for architects designers and builders SketchUp is the tool of choice for architects interior designers and construction professionals Though the basics are simple to understand getting the most out of it requires deeper instruction and guidance Architectural Design with Google SketchUp uses easy to understand tutorials to describe both common and advanced process illustrated throughout with full color renderings Handy sidebars throughout the book cover fundamentals and background information End of chapter exercises help readers master new skills and techniques A robust companion website includes helpful videos sample files and plug ins

Design with Purpose: Learning Interior Design and Serving Clients Like a Pro Yash Interior and Construction,Mr. Diwakar Sharma,2025-05-20 Design with Purpose Learning Interior Design and Serving Clients Like a Pro is your complete guide to entering and excelling in the world of interior design with both confidence and heart Whether you re an aspiring designer a creative enthusiast or someone looking to transition into the field this eBook provides a practical insightful and client focused roadmap Through twelve comprehensive chapters and bonus resources you ll learn the foundational principles of design color theory space planning zoning material selection and style development while gaining a real world understanding of how interior designers manage projects from concept to completion You ll explore how to work with clients build trust communicate effectively and deliver spaces that reflect both aesthetic beauty and functional purpose Author Diwakar Sharma founder of Yash Interior and Construction brings over 17 years of professional experience and a 40 year family legacy in construction to share lessons tools and strategies used in actual projects across India From mastering digital tools to handling site execution developing your brand and scaling your business this eBook bridges technical skills with soft skills ensuring you re not just a designer but a well rounded professional Complete with templates client tools and mood board examples Design with Purpose is more than a learning resource it s a mentor in book form

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Sketchup Construction Drawing Beginner Introduction

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