

Chapter 1 : Clock Woodworking Plans

Wooden Gear Clocks and Clock Plans. Plans Available for Purchase. Click on thumbnails below for detailed view and ordering information.

Kids Free Shelf Plans Kids free shelf plans Download the best rated woodworking guide with over 16k woodworking plans included. Easy to follow instructions and great designs and tutorials. Great for Starters and more experienced builders. See more at Link in Video. Crescent Wooden Gear Clock This wooden gear clock was designed by Jeff Schierenbeck and is available as a kit or scroll saw pattern at. The clock is driven by weight and runs for one day between windings Time Is Flying By!!! Full details on my website: More wooden gears and clock plans at The original design of this clock and other beautiful clocks can be seen at Quite a few people have asked me how I cut and smooth gear and clock wheel teeth. There is a dxf file available to download as well as their standard plans. I have built another of these clocks whic Thanks to Clayton Boyer and those who helped design the Toucan. More below Sorry about the Hum on the video cant figure out how to fix it. I actually rewound the electromagnet three times, first time with plastic, second time I messed up on the soldering of the transistor, Dont put glue over the tra Making The 6 Part 1. A wooden gear clock designed by Clayton Boyer. This is my second build of this clock, the first was all plywood, this one is all made from solid timber, American white oak It features a grasshopper type escapement. This clock is driven by weight and runs for one day between windings Material is baltic birch. I think a down shear or compression helical cutter might work better at keeping the edges clean. First, it has no hands. The large outside gear is marked with the hours. It rotates and brings the hour markings to the top where there is a fixed pointer. There are also wooden dots to indicate the quarter hours. The second unique feat Plans available at Clayton Boyers site, I am in no way an expert, This is an ongoing process and I am still finding out things about the clocks all the time. I recently had to try and slow my clock down it was going too fast, so I added more and more weight to the pendulum bob trying to slow it down Making The 6 Part 4. This clock is a work in progress, I found out that I needed to remake my pallets to get the the Number 6 to work better. If you have to keep adding weight and you have run out of pendulum adjustment it means something is not right, you need Every 4 minutes the lowest ball is ejected from the gear and runs down a track to a lift mechanism that elevates the ball to another track wher it I still need to add the hands and face and a couple more gears, and make a final better looking weight to run the clock. The plastic bottle hold some lead we A hand-made wooden clock is one of those projects I like to marvel at. Thankfully, my buddy Rick U Plans can be found here Gears are scroll sawed from baltic birch plywood and other wood is solid walnut. Clock runs for 30 hours before lifting weight to auto rewind clock Wooden Gear Clock This was my first attempt at making a wooden gear clock after visiting a few of the sites on the internet, mainly the site of Clayton Boyer which gave me the real inclination. I wanted to make the clock for commercial reasons so was unable to use the plans availabe on the Clayton Boyer site. Free Woodworking Plans Bedroom Armoire Free woodworking plans bedroom armoire Download the best rated woodworking guide with over 16 woodworking plans. The gears, frame, and hands are all built with Baltic birch and Finnish birch plywood for good dimensional stability. The clock runs great, and keeps good time. The pendulum bob is adjustable, and right now, it loses around 2 minutes every 24 ho Making The 6 Part2. A Wooden Gear Clock. This mini movie shows my progress in making a wooden gear clock designed by Clayton Boyer, The Number 6. You can find many more of his cool designs at Electromagnetic pendulum controlled by BS2 Stamp micro controller. Plans available soon on How to Make a Wooden Gear Clock An incredible steampunk or any other kind of punk clock Tick Tock, a steampunk clock. Ok not so simple, but my hubby is obsessed with making one of these Wish could make this 1 working, if did would be art only-Amazing Clocks She sounds beautiful and has a fascinating escapement to watch. Wooden clock plans free download displaying 19 images for wooden clock Download three new free wooden clock plans! Weekend project for the CNC? Keith Chambers - wooden gear clock

Big Book of Gizmos & Gadgets: Expert Advice and 15 All-Time Favorite Projects and Patterns (Fox Chapel Publishing)
Step-by-Step Wooden Mechanical Marvels, with a Full-Size Pull-Out Pattern Pack.

Wooden Clock Plans Basically, anyone who is interested in building with wood can learn it successfully with the help of free woodworking plans which are found on the net. The specific way each feature is presented and the material covered in these sites are the best reason for downloading Wooden Clock Plans woodworking plans for your construction projects. Even though the plans provided in them are more suited to the needs of professional and advanced woodworkers, the suggestions and guidance offered can even make the most ignorant person successfully complete any Wooden Clock Plans woodwork projects. Professionals find the free plans useful because it helps them save time in creating designs for their clients. Benefits Of Wooden Clock Plans With the Wooden Clock Plans free woodworking plans package, you will get help to build all kinds of projects, be it furniture, sheds, beds or wind generators. These plans are very user friendly which helps in making each woodworking project enjoyable and simple. These online plans offer more options to woodworkers than any other sources. You can find the perfect woodworking plan according to your level of expertise or desired need. There are plans for beginners, professional and weekend hobbyists. For newcomers, these plans are a must have package as they are very simple to use and contain colored images of the highest quality and detailed instructions stepwise for every woodworking projects. Many of these Wooden Clock Plans free woodworking plans online allow you to access thousands of ideas to assist you in building your project in a quick and professional way. You get blue prints, images and materials when you download these plans from the net. It does not matter whether you are skilled or not, these detailed instructions will assist you all through your project till you have completed it successfully. You will also get tips on how to start a woodwork business from some of the free woodwork plans online. These Wooden Clock Plans woodworking plans also have few limitations to speak of, though these are minor ones compared to the advantages you gain from them. One of the common complaints about free plan software is the time which is taken for it to get downloaded completely. These plans are quite vast and if the internet is slow, it might take you hours to download the whole Wooden Clock Plans plan. The other disadvantage of free plan is that the measurement provided is of a specific kind even though both kinds of measurement systems are available. You lose time by making the effort to convert the measurements into your kind of measurement system. On the whole, any of the free plan software are great and every woodworker can greatly benefit from the plan packages for building woodworking projects in a confident and successful way. The free woodworking plans are worthy of a trial. This is true, especially, when you need assistance in your woodworking skill, while working on a specific project. You can select from the vast amount of plans available in the free Wooden Clock Plans woodworking plans online, which are offered by expert and experienced woodworkers. If you do not have the proper information, instruction, and skill, you may land up spending more money and time than you originally intended to spend. As a beginner woodworker, you need have the space, time and the correct tools. Having said, there are a few essential factors that you should keep in mind, before starting with any woodworking project. If you are beginner, you should first need to be very interested in woodworking. Creating something new with your own hands is a special feeling. Do not start a project if you are not interested, as this may land you in a bad place. Think of the main reason of creating this woodworking project. Decide on the uses of the item you are making. Consider your skills and analyze the time you have, before you start with a project. Start projects that you can finish. If you are in the middle of some work, then it is better not to start any project at all. If you keep these essential points in mind before you begin a Wooden Clock Plans woodworking project, it will become very easy for you to achieve success. Woodwork requires planning as much as it requires effort. So how do you get started? Getting Started With Wooden Clock Plans Woodworking Projects and Plans for Beginners Before starting anything, it is very important to choose the woodworking projects that you want to start with. As a beginner, always select a project that has a very basic build up or a simple construction. Some easy to begin projects include, bird feeder, benches, shelves, etc. As soon as you get hold of the techniques,

you can always move to the next level of woodworking projects, like cabinets, sheds and others. Beginning projects should always be less complicated and less frustrating so that you have a better knowledge of working with woods and their tools. Once the project is selected, start selecting your tools. **Wooden Clock Plans**

Beginners Woodworking Tools Tools are the means through which you will win the battle of woodworking. Many people think that power tools are needs. However, for beginners basic hand tools can be very handy and more than helpful in completing a project. If woodworking is your hobby, then a few tools that you would require are:

- Workbench** - A workbench is required for precise cuts and measurements. The workbench when fixed with vises offer ample space to work.
- Hammer** - Hammer is an essential tool for woodworks. It helps you to drive nails, pins, staples, etc. A small and lightweight hammer will make things much easy for you. When you buy a hammer, always check the balance between the weight and stand. Always select a sturdy, yet lightweight product.
- Saw** - A saw is another tool that you cannot live without while woodworking. This tool helps you to cut woods at different sizes. There are different types of saws available in the market. Choose a size that you can handle.
- Screwdriver** - Screwdrivers are available in different shapes and sizes. Mostly there are Canadian types and standard flat type. Having all of them will help you in advance woodworking. You can also buy power screwdrivers as they make the work much faster.
- Measuring tape** - It is another very important tool that you cannot work without. The measuring tape helps you to measure wood before they can be attached together.
- Wrench** - Some woodworking projects require fixing bolts and fixes. For such projects, you require wrench. However, this is not a tool for beginners, but having it would make work easier for you at a later stage.
- Drill** - Drill helps you make holes in wood. Power drills are more useful but they cost more. Low wattage power drills will make the task much easy.

Other small and basic tools - These include pencils, gum, staple gum, level, erase, first aid kit and shop vac. Based on the type of project you want to complete, pricing can be determined. The simple the project, the less cost it involves. However, at the very beginning buying the tools will be a little hefty. Therefore, it is better to fix a budget first on the tools, then on the project. Buying the basic tools will ensure that you do not need to buy any more material other than the wood ply.

Wooden Clock Plans Time and Instructions Instructions are one of the primary things that every beginner should follow. It is like the woodworking Bible. Instructions guide is a very easy to understand process, what to do and how to do it. It is a systematic guide for completing the project. Time also plays an important role in the building of woodworking projects. Woodworking projects require time and therefore it is necessary for a beginner to have ample amount of time every week. Nevertheless, the most essential thing that will help you to achieve success is proper planning. With proper planning and a strategy, it is possible to achieve success quickly. If you know the purpose of woodworking, the item you want to build, the tools you require to own and the average time you can give every day; then you are all set to go.

Wooden Clock Plans Conclusion All these tips and instruction will make the woodworking projects and plans for beginners fast to complete. Always make sure that you have all the essential tools, materials, space ready. Keep the instructions of building an item handy. Proper strategy and planning will help you to make a great woodworking project for your home. **Plans for Wood Furniture**, is a renowned woodworking expert. **Plans for Wood Furniture** recommends **Plans for Wood Furniture** for better knowledge on woodworking plans. According to **Plans for Wood Furniture** good woodworking plans for beginners can essentially help a newbie in learning techniques.

Chapter 3 : Wooden Gear Clock Plans Free Download - WoodWorking Projects & Plans

Free plans to help you build a wooden clock. The plans on this site are those of clocks designed by myself over the last few years. At present there are Twenty one sets of plans available, and it is intended to add to them as new designs become available.

Drill press or hand drill Clamps Spray adhesive to adhere the plans to the wood Wood screws and washers Dremel sandpaper or sanding wheel Safety gear: You may be asking, what is the best kind of wood to use for a wooden-gear clock? There is no single answer, but you want to use a wood that is hard and strong enough not to split, and fine-grained for smoothness and detailing. Clock Plans 2 Choose and Lay Out a Plan The image above is an example of a wooden-gear clock plan, easily available for purchase on Amazon or your local hobby shop. When you have the plans: Make copies of your plans in case you mess up and need to start over. Cut out each part from the plan. Using a spray adhesive, carefully glue your plans to the wood, taking care there are no air bubbles. Cut out the rough shape of the individual parts, which will make them easier to cut precisely with the scroll or band saw. Cut Out Your Gears Using a Scroll Saw In most wooden-gear clock plans, you need to drill holes where the arbor will slip through the gear. There will often be a set of holes in between the gear teeth and in the interior cut-outs of the gears. These holes make it easier to cut out the teeth and cut-outs by inserting the scroll saw into them and using them as a starting point. Using a scroll saw, cut out the gears and their teeth. Some woodworkers prefer to use a band saw for this step. Whatever you use, be extremely careful and take your time. The precision of the gear teeth is one key to making your clock keep time. Using a dremel or power sander, sand every cut edge of the gears as perfectly as possible. However, staining it will make it look more professional and sealing with protect the wood for years to come. Make sure you follow the directions for your wood stain. What you want is a nice uniform color all over the wood. Avoid staining or varnishing the insides of the teeth, which could mess up your gear train. Think about staining the gears different colors. This will give the moving gears some added visual interest, and contrast the different parts of the clock from each other. Assemble Your Gear Wheels As discussed above, the gear wheels are made up of the wheel itself, a pinion, and an axel or arbor. Most wooden clockmaking kits will come with a sheet of paper laying out the arbors and pivots. Use this to determine the size of the rods. Use a polisher and sander to clean and polish the rods. This will reduce the amount of friction they cause. Use wood glue and clamps to affix the pinion and spacers to the wheels around the arbors. Every frame will be different, and some are more ornate than others. Insert each wheel set the gear wheel, pinion, arbor, and possibly a spacer and the escapement mechanism into the frame, first one at a time and then two at a time, to make sure they run freely and with each other. You should be able to make the wheels move freely just by blowing on them. You may find that some of your parts do not fit very well together. That may be because of the stain and the sealer. All it takes is a bit of sanding where the joint fits and you should be back in business. The pendulum and drive weight, along with the escape mechanism, are what actually make your clock keep time. Again, the specifications here will depend on what your instructions say to do. Generally, you will make the drive weight using wood and lead shot. Add the hands and any other decorative elements. How to Make It Run on Time Getting your clock to keep the right time will take a lot of trial and error. Be patient, and follow these steps: Make sure the escapement mechanism is ticking at an even speed, and if not, manually adjusting the anchor should do the trick. Make your drive weight is adjustable. You can do this by weighting it with lead shot which can be easily added or removed. If the clock is running slow, the weight is probably too heavy, and too little weight can stop the clock altogether. Check the pendulum bob, which should also be made adjustable. Maintaining It Wooden-gear clocks, when kept indoors, require very little upkeep. However, there are some things you can do to keep it running well: Unlike metal clocks, wooden-gear clocks need very little cosmetic upkeep or oiling. Since most wooden-gear clocks are exposed, treating the wood with oil will just attract dirt and dust into the clock and gum up the moving parts. Instead of using oil, use a dust rag, fine steel wool, or sand paper to wipe dust and debris. If you must, use a small amount of graphite grease on the pivot only. Of all the moving parts, the escapement wheel will wear out the fastest. You might even want to make an extra

wheel for replacement. More About Wooden Clock Gears and Gear Ratios "Gear ratio" denotes the ratio of the speed of one gear the input gear to the speed of the second, or output, gear. Not just clocks, but motors, pulley systems, and other simple and complex machines are built to optimize gear ratios. If you make a wooden-gear clock from a plan, the gear ratio will have been figured out for you by whoever drew up the plan. The number of teeth on the wheels and the pinions has been optimized so that the hour, minute, and second hands move at different speeds, but on the same rhythm, all synchronized to the tick tock of the escapement wheel. The escapement gear, pushing the pendulum, counts the seconds, and there are 60 seconds in a minute, and 60 minutes in an hour, or 3, seconds in an hour. The minute hand gear, therefore, should rotate once every 3, seconds. The axle indicating hours will rotate once every 43, seconds or every 12 hours. Here are two very good sources for calculating the gear ratios for a wooden-gear clock: Includes calculations and a spreadsheet for carving wheels and pinions from scratch.

Chapter 4 : Best 25+ Wooden clock plans ideas on Pinterest | Wooden gear clock, Wooden gears and Gea

I think wooden clocks are one of those dividing lines in woodworking To have the aspiration to make a clock, entirely from wood, puts you in your own unique category. One well-known seller of wooden clock plans, Clayton Boyer, pitches his most-difficult plans like this: " Selling plans for the clocks on this page goes against my basic.

This clock, whilst similar to Beginners clock 1 has some refinements that endeavour to make it little more elegant. This approach looks more slender than the previous clock, whilst being slightly more difficult to construct. This simple construction for each shaft ensures that the gears are held rigidly perpendicular to the shaft axis, and requiring only the CNC machined parts and the shafts to be cut to length. Another feature of the Beginners clocks is the simple winding arrangement, with a single cord wrapped one and a half times around the drum, with a bottle of water as a weight and a couple of large nuts as a counterweight. I have used a Coke bottle for the weight as it is a convenient way of adding weight to the clock and provides an easy way of adjusting the weight by either adding or removing liquid. The clock will run for about hours and you should be able to get it to run within 1. This clock whilst made simpler to build using the unique snap together shafts, needs more care when it comes to the assembly of those shafts into the Back Frame as they need to be carefully lined up so the mating gears mesh together at the right point. The gears are marked with small dots to achieve this, but if you miss them out you will be in trouble. The majority on the Clock is made from wood in both 6 mm and 12 mm thickness, along with 2 mm ground rod or drill Rod, with the clock hands and Pallets being cut from Plastic sheet. I have used a ml Coke bottle for the weight as it is a convenient way of adding weight to the clock and provides an easy way of adjusting the weight by either adding or removing liquid. This has always been a problem with the Non-round gears as it creates a constantly changing torque. The clock will run for about 8 hours and you should be able to get it to run within 1. Clock 32 - with Compound pendulum Clock 32, is a simple design incorporating a Graham Dead beat escapement with a Compound Pendulum, it is a design that has Pendulum Bobs, mounted one above the pivot and one mounted below. The advantage of this is the overall length of the pendulum can be made much shorter, the disadvantage is that it can be more difficult to adjust the running rate of the clock, because the adjustments have to be much smaller. This arrangement using light weight parts enables the Brass Pendulum Bobs to be fitted at the calculated positions leaving only small adjustment to be made to have the clock running accurately. An alternate solution would replace the Carbon Fibre Rods with Threaded Rod and have the Brass Pendulum Bobs threaded so more precise adjustments can be made. The clock has a large Chapter ring type dial to maintain an open view through the frames to the working gears behind. These are driven by a weight hanging from a Drum that has a gravity ratchet to give a silent low effort to wind. The winder itself is one that can be easily purchased on line and is a size The Frames has been designed to be machined on a Xmm bed size, without the need to split them into parts. The prototype is mounted on the wall with the dial centre at mm from the floor and runs for just under 15 hours. I needed a weight of grams to keep it going. If fitted with the Pulley arrangement shown on the drawing then you can double that running time to 30 hours but you will need to double the weight. If you want to cut out parts on a scroll saw you can use the the PDF file included with the purchased downloads to do this. It is based on an old clock designed by William Strutt, in about , and it has several interesting features. The foremost of these is the large Epicyclic gear drive featuring gear teeth on inner and outer parts of the ring, resulting in a rather unique design. The clock was very difficult to make at the time and few were ever actually produced, so, I have adapted the original design so that it can be hung on the wall and be weight driven instead of the original spring drive. This and the adoption of conventional gearing to achieve the The large Epicyclic gear causes a few problems for the builder as it needs to be held accurately in position on the shaft so that it engages with its Planetary gear and the stationary Sun gear in the centre. To ensure this will happen all the gears on the main shaft have machined bushes to mount the gears on squarely and securely so a lathe is going to be needed to make these parts. Although this is not really a clock for the beginner it is actually a great project if you are an experienced engineer and want a quick build and a satisfying result. Clock 34 Is the first design to incorporate the Woodenclocks Gravity escapement along with a Compound pendulum. The Gravity

escapement originally developed for Clock 20 has been a consistently reliable mechanism and has been running most days since built. The design is based on a design by James Arnfield with refinements to the unlocking mechanism and the moving of the Pendulum and the Gravity arm to a common pivot. The inclusion of the Compound pendulum offset to one side makes the clock more compact and more visually interesting. It has been a while since I designed a clock using imperial units, not since Clock 25, so this one uses inches for all primary materials, although like most other clocks it is Dual dimensioned. I have also included a separate listing of all the proprietary items with McMaster-Carr numbers to make sourcing of these parts easier. Clock 35 - Bracket Clock - Castle I have designed this clock for my young great grandson, with a Knights and Castle theme. I have revisited the Spring powered clocks once again to allow the clock to be placed on a cabinet or shelf with none of the hanging parts that young fingers can grab and pull on. The coloured version shown elsewhere in some of the illustrations is optional. The spring drive is the same as I used on the earlier clocks and the video for Clock 14 shows how to fit the Spring into the case. Clock 27 FDM This the second 3D printed plastic clock to feature on the site, it makes use of the latest 3D printing technology to offer a technically exiting challenge to the many users of this equipment. It has been kept quite small to fit within the limited size envelop of many of these machines and is designed specifically to avoid the use of supports during the printing process. The clock features a standard gearing arrangement to give 1: It has the latest Woodenclocks gravity escapement which features reduced friction within the escapement to give you a more accurate timekeeper. It also uses a gravity ratchet arrangement to make winding easier, just pulling down on the counter weight will rewind the clock to run for another 12 hours. The clock can be adjusted to keep it running to an accuracy of 1 min in 24 hours, and maybe even better, but I gave up trying to improve on it at this point. Adjustment is by moving the pendulum Bob up or down to either speed up or slow down the clock. Many of the parts have been split into 2 or more components to reduce the need to add supports during the printing of the part. Liquid solvent bonding is used to glue all the necessary parts together.

Chapter 5 : Wooden Gear Clocks: Build an all-wood clock with a precut clock kit or DIY clock plans

Wooden gear clocks, clock kits, and do-it-yourself clock plans. These original all-wood clocks are functional, attractive, and fun!

Chapter 6 : The Best 62+ Wooden Clock Plans Free Download PDF Video

The basic parts of a wooden gear clock, how they work, and how to build one from a wooden-clock plan. Find this Pin and more on Sawdust and Filings by Judy York. Facinating article on making wooden clocks.

Chapter 7 : Browse Clocks | Wooden-Gear-Clocks

The delicate mahogany grain on this classic clock allows your eye to focus on the decorative handmade tile and swinging pendulum.

Chapter 8 : Gary's wooden clocks (free plans) | Make:

Make a Clock with our woodworking clock plans. Choose from hundreds of styles of clock patterns for that perfect gift or heirloom.

Chapter 9 : Woodworking Plans by Clayton Boyer

Klockit woodworking plans are offered for the woodworker who wishes to construct their own wood parts using various equipment. Plans include detailed wood part specifications and dimensions for any particular assembly.