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unenglazed pottery contains bork or perlite, you may want to add more holes or make them slightly larger. These materials can obstruct small holes and prevent proper drainage. Determine if the pot is glazed or unglazed. Glazed pots will have a shiny and smooth surface, and are non-porous. Unglazed pots are dull, rough to the touch, and highly porous. The pores in the pot allow for drilling unglazed pots is similar to drilling a rough brick. If unglazed, submerge your pot in water and allow it to soak overnight. Clay is porous, so do water will penetrate throughout the clay pot. It is easier to drill through a wet clay pot than a dry one, because water helps cool the tip of your bit. If you don't have time to soak the pot overnight, try to leave it in for at least one hour. This will speed up the drilling process because you won't need to take as many cool-down breaks. You can skip this step for glazed pots. Set the pot on a dish rack to drip dry. Prepare your drilling surface. Choose a sturdy table or bench and protect it by spreading newspaper or a cardboard box over the surface. Set the pot bottom-up on your work surface. Drilling clay releases silica into the air, and inhaling silica is linked with cancer, so always use a respirator. Eye protection such as goggles or safety glasses is recommended. Place a few strips of masking or painters tape in an X shape over the area you intend to drill. The tape makes it easier for the drill to enter the clay without slipping. It also helps prevent damage to the pot, such as chipping. Once you drill through the tape you can remove it immediately or wait until the hole is finished. Measure and mark the hole or holes to be drilled. To avoid damaging the structure of the pot, all holes should be at least one inch from the edge and two inches from any other hole. Use a permanent marker or pencil directly on the underside of the pot or painters tape. You could also use a nail to scratch or dent the pot's surface. Ideally, a dent or small groove will help guide the drill bit into the clay. Select an appropriate bit. For an unglazed clay pot, choose a masonry bit with a carbide trip. For a glazed clay pot, start with a bit designed for tile or glass, and then switch to a masonry bit once you've cleared the shiny varnish. The first bit you use should be three to four times smaller than the diameter of the finished hole. Drilling a pilot hole in clay avoids subjecting the material to too much stress, thereby reducing the risk that your pot will break. Connect your drill to power and attach the bit. Choose a low speed setting if using a variable-speed drill, and put the drill in forward mode. Grasp the drill like a handgun, and place the tip of the drill bit against the surface of the pot. The bit of the drill should be perpendicular to the bottom of the pot. Hold the drill firmly in place. Squeeze the trigger to start drilling. Provide bracing and resistance, not pressure. If the pot or drill starts to smoke, take a break and soak the pot again to cool it down. Drilling through clay is a slow process, requiring a lot of patience. If you have a cordless (battery-operated) drill, you can dip the tip into a cup of water to cool it down periodically while you drill. If your drill is connected to electricity via a power cord, don't bring it anywhere near standing water due to the risk of electrocution. In this case, remove your drill bit to put it in water. Once the pilot hole has been drilled, you are ready to enlarge the hole. Choose a slightly larger drill bit and repeat steps six and seven. If your drill bit gets dull, either change it out or sharpen the drill bit. Continue this pattern with successively larger bits until the hole is the desired size. Disconnect the drill, remove the bits, and store them. Clean up your work area using a dustpan and brush or a vacuum.How to use a Drill: A Beginner's GuideMaintaining plant health starts with adequate drainage. Drainage holes can be added to glazed or unglazed clay pots with minimal materials and limited effort. This project is suitable for DIYers of all experience levels. You will need an electric or battery operated handheld drill and a selection of carbide-tipped masonry bits. Overheating is the main complication to avoid. Download Article Download Article Some clay pots don't have drainage holes in them, making it difficult to use them for outdoor plants or sensitive indoor plants. You can remedy this problem by drilling your own holes into the clay pot, but you do need to work carefully to avoid breaking it. 1 Soak the pot overnight. Place the clay pot in a large bucket and cover it with water. Allow the unglazed clay to soak in the water for at least one hour, leaving it there overnight for best results.[1] Thoroughly saturated terra cotta clay is easier to drill through. Water acts as both a lubricant and a cooling agent, which makes it easier for the drill bit to work its way through without causing damage to the clay or overheating. When you are ready to drill through the clay pot, remove it from the water and allow any excess puddles of water to drip off the surface you'll be drilling through. 2 Use masonry drill bits.[2] Carbide masonry drill bits should drill through unglazed, natural clay pots without much difficulty or damage. The drill bit size and number of drill bits you'll need will vary based on the size of the hole you want to create. If you want to create a similar drainage hole, you'll probably want at least one 1/2 inch (1.25 cm) masonry drill bit to minimize the risk of cracking the pot. It's best if you use multiple drill bits when creating holes larger than 1/4 inch (6.35 mm). Start with a 1/8 inch (3.175 mm) drill bit and gradually work your way up in size until you reach the final desired hole diameter. Advertisement 3 Place a piece of tape over the surface. Place at least one strip of painter's tape or masking tape directly over the spot you plan to drill through. The tape can help prevent the drill bit from slipping as you work through the surface of the pot. It is not always necessary with soft, unglazed clay, but it can still help. Multiple layers of tape will work even better than a single layer. This provides even greater traction and may help ensure that the tape will stick on the pot, even in spite of the moisture. 4 Start small. If you're working with multiple drill bit sizes, start with the 1/8 inch (3.175 mm) bit. If you only plan to use a single size, attach that drill bit to the drill now.[3] Use a cordless drill with variable speed for the greatest amount of control. 5 Drill slowly. Bring the drill bit to the center of the spot you wish to drill through and turn on the drill. Work the drill through that spot at a slow, steady pace, applying as little pressure as possible. 4 Essentially, the only pressure you apply should be to help keep the drill bit steady. Allow the drill to do the work of actually drilling through the pot. Working too quickly or with too much pressure could cause the spot to crack apart. If you are drilling through a surface that is thicker than 1/4 inch (6.35 mm), you may want to pause and clean the debris away from the hole as you work. Doing so can help keep the drill bit cooler. Peel the tape away after drilling your initial hole. You may even pause to peel the tape away as soon as you first break through the surface, but doing so is not strictly necessary. You shouldn't have a problem with the drill overheating if the pot has been well saturated, but if the drill bit does begin to smoke, you will need to dip the pot back into water for a few minutes to cool down the surface. If you have a cordless, battery operated drill, you may even be able to touch the tip of the bit to water to help cool it, as well. Do not do this if you're using an electric cord drill, though. 6 Increase the size gradually. After drilling a small hole through the pot, change your drill bit for one that is 1/8 inch (3.175 mm) larger. Drill into the center of your previous hole using the small bit. In this manner, you can slowly enlarge the hole while putting less strain on the clay. Work as you did before, applying light pressure and drilling slowly. Continue working through your various drill bit sizes in similar intervals until you reach the final desired size. 7 Clean up. Use a damp rag to clean off any dust and debris from the surface of the pot. Inspect the pot to make sure that there are no deep cracks or chips. This step completes the process. Advertisement 1 Use glass and tile drill bits. Glazed clay pots are a little trickier to drill into than their unglazed counterparts, but it can usually be done using glass and tile drill bits. These drill bits have a spear point head, which allows then to cut into hard, brittle surfaces with less pressure. If you were to use a standard masonry drill bit, you would need to apply too much pressure to break through the hard glaze, and the pot would likely crack apart. The drill bit size should match the diameter of the desired hole. If you want to create a standard drainage hole in a medium sized pot, a 1/2 inch (1.25 cm) drill bit should work well enough. It isn't strictly necessary, but you might also want to consider using multiple sizes to further reduce the risk of causing breaks in the clay. Start with a 1/8 inch (3.175 mm) drill bit and gradually work your way up through larger sizes until you reach the final desired size. 2 Place tape over the pot. Place one to four strips of painter's tape or masking tape directly over the spot you plan to drill a hole into. The use of tape is especially helpful with glazed clay surfaces, which tend to be somewhat slippery. This tape gives the surface just enough traction to help prevent the drill bit from slipping as you start drilling. One layer of tape should be enough in most cases, but multiple layers of tape will provide greater traction and are less likely to peel away during the process. 3 Choose a small drill bit. If you do decide to work with several drill bit sizes, you should start with the 1/8 inch (3.175 mm) bit. On the other hand, if you decide to use only one drill bit, simply attach that drill bit to your drill now. A cordless drill with variable speed is strongly recommended. This will offer you the most control while drilling, and the fact that the drill is cordless makes it safer to use around water than a corded drill. 4 Keep the pot wet. Moisten the surface you'll be drilling through with water. Try to keep that surface consistently wet throughout the entire drilling procedure. If you're drilling into a recessed bottom, you can pour a small amount of water over the indented portion of the pot and work with that. When you're drilling into a flat surface, it helps to have a continual dribble of water pouring over it from a garden hose or faucet. The water acts as a lubricant, allowing the drill bit to work through the clay with greater ease and less pressure. It also acts as a cooling agent, which can prevent the drill from overheating. Clay pots with very thin glaze may not need any water, but applying water to the surface as you drill still won't hurt. 5 Work slowly. Position the drill bit over the spot you wish to drill through and turn on the drill. Use very light pressure and work through the surface at a slow, even pace. The pressure you apply should be just enough to keep the drill steady. You should let the drill do the actual work of drilling through the pot instead of trying to force it through faster. This is especially important once you are nearly through to the other side of the pot, where the clay will be weaker. Working too quickly will probably cause the clay to break. When drilling through a clay surface thicker than 1/4 inch (6.35 mm), consider pausing in the middle of the drilling process and brushing away any chips or other debris. This can help prevent the drill bit and drill from overheating. Once the drill bit breaks through the surface of the pot, you can pause your drilling and peel the tape away. If you don't wish to pause, though, you should at least peel the tape away after you finish drilling in this first small hole. 6 Increase the hole size as needed. Once you've drilled a small hole into the pot, switch the drill bit for one that is 1/8 inch (3.175 mm) larger. Using this drill bit, drill through the hole you just created. Center this drill bit over the center of the hole as you drill through it. This is a fairly safe way to slowly enlarge the hole. As before, drill slowly and apply little to no pressure. Work through the remainder of your drill bits in this manner, upgrading by about 1/8 inch (3.175 mm) each time, until you reach the final desired size. 7 Clean things up. Wipe away any dust and debris using a damp rag, then inspect the area around the hole. Make sure that there are no deep cracks, chips, or other signs of damage. This step completes the process. Advertisement Add New Question Question Is it possible to put a hole in an unglazed pot with sharp nail and small hammer? The answer here depends on what kind of plants you're growing and how precise you are with your watering. According to Hancock, "Technically, no pot needs drainage holes." But this is absolutely dependent on you always being exact with the amount of water you give your plants. You need to keep the soil moisture levels exactly right; if you overwater and don't have drainage holes, you'll run into the issues mentioned above. The other exception is the plants you're growing. For example, "If you grow lucky bamboo or other houseplants in a vase of water, they don't need drainage as they're already growing aquatically," Hancock reassures. How many drainage holes should a pot have? Hancock says that "more holes tend to be better than fewer holes" because it reduces the risk of clogs. "I've actually experienced this with some of my outdoor plants—I didn't realize it, but the root system had started to grow down through the drainage hole and got big enough that it completely clogged it. My plant started wilting even though the soil was moist, so I tried to slip it out of the pot and discovered it had rooted down into the soil." Have a beautiful pot you want to use - but it has no drainage holes? Here's how to drill them yourself to avoid soggy roots! 1 Love putting plants in pretty, ceramic containers but nice pots can be so expensive! One of my favorite hacks for getting pots for a bargain is to shop thrift stores. Think beyond pots designed for plants - at my latest thrift shop, I picked up this black canister and a white serving dish to use a pots on our patio. They cost less than \$5 total and are really heavy duty and pretty. Put, neither container had drainage holes. Obviously - they weren't meant to hold plants. But I am excited to show you how I added my own holes! Drilling holes in plant containers is an easy way to make your plants happy! All larger plants have different needs, but no plants want soggy roots. When you water plants, water usually settles down to the bottom of the pot. Siting water can lead to mold or rot. Drainage holes allow excess water to drain on out and will keep your plant and soil from getting soggy. Drilling holes in the bottom of a pot is an easy way to add drainage. If there are holes - assuming they aren't clogged by anything - there is no way that your plant will get water logged. However, drilling holes in your pot is not the only way to add drainage to a plant pot. There are 3 main ways to add drainage to your potted plant. Double potPlace a pot with drain holes (like the plastic nursery pot) plant comes in! inside a larger pot. Water can dribble out the inner pot and it won't get soggy. Add pebbles to the bottomAdding a layer of small rocks or pebbles creates open air space where water can settle, but your soil won't get soggy. Drill holes in your planterDrainage holes let excess water flow right out. Beware if you have indoor house plants - put them on a saucer or drip tray if you drill holes in your pot or you risk a soggy shelf or floor! Diamond drill bit for a ceramic pot (see my guide to drill bits for each pot type below) Cordless drill Ceramic pot Safety glasses/safety goggles Awesome plants! If you have a ceramic pot, you will need a diamond drill bit to drill through it. These are also sometimes labeled as masonry drill bits. This is a bit designed for drilling into tile - kind of like a wet saw. It sounds fancy but they are inexpensive and usually come in a 5 pack online or at most hardware stores. They will fit any standard drill. Diamond bits are designed to be used on a wet surface, or else they will overheat and can break. We drilled our pots upside down. This works fine for unglazed ceramic. If you are drilling glazed ceramic pots, know that this can take off a bit of the glaze for about 1/4" surrounding the hole. You might want to drill from the inside down instead of from the bottom if you mind the missing glaze. Just be sure your drill will fit. Start by holding the drill at a 45 degree angle to establish your drilling. I had a very hard time doing this on our wooden shop table. It was spinning and spinning. We finally had luck when Sean put the pot on the grass outside - it got a much better grip that way. A towel might have the same gripping effect. Place your drill bit at a 45 degree angle towards your pot base. Begin to pull the trigger and slowly start drilling. Once you feel the drill bit catching, straighten the drill to be at a 90 degree angle straight up and down and increase the speed of the drilling. Push firmly to fully drill your hole. Warning - we did have some trouble with the drill bit slipping. It happened when the drill bit finished the hole and we kept pushing too much pressure and the heavy body of the drill smashed into the delicate glazed pot. Be very careful to go at a slow speed and stop pushing once the hole is complete to avoid it. In that regard, you want to measure as many times as you need before drilling. When we mentioned that you need masking tape, you probably thought that it was something you can overlook but nothing could be further from the truth. The tape not only makes marking easier, but also helps to keep your drill bit from skidding when drilling. It is easy to be tempted to drill fast but you want to keep in mind that ceramic is a delicate material. That means that you want to go slow with the drilling especially at first. Once you have started, you can increase the speed just remember that full speed is not your friend here. Again, you do not want to exert a lot of pressure while drilling. Apply steady pressure and use slow to medium drilling speed. This will guarantee that you do not end up overheating your drill bit or damaging it. The drilling process is certainly going to produce bits and pieces of ceramic so you can expect them to fly in the air and probably into your eyes. What you need to counter that is to wear a pair of safety goggles as soon as you begin drilling to ensure that your eyes are protected. You can also wear some safety gloves to protect your hands but that is optional. If you have done any drilling in the past, then you know that the process requires you to be extra careful. That rings particularly true when dealing with fragile material such as ceramic. You want to consider the drill bit you are using as well as its size especially if you want accurate results. The process may sound complicated if it is your first time but that should not be a problem with this guide at hand. We want to believe that it has equipped you with all the knowledge you need for drilling through ceramic so make the most out of it. Ceramic pots often come with holes, for drainage or whatever else you may need the holes for. You may own, or purchase a ceramic pot where the holes aren't already drilled, but that can be an easy problem to fix using our guide. You are probably wondering if you can create the holes on your own, and why wouldn't you, seeing as ceramic is a fragile material. Well, we are here to tell you that it is possible so if you want to drill hole in ceramic pot, we are about to take you through the process. For the drilling process, you will require some essentials Safety goggles Masking or painter's tape Nails Newspaper A drill 1/2 inch drill bit The first thing you want to do is determine the right bit to use for your ceramic pot. A masonry bit works best for ceramic but you can always use a diamond bit. Using the wrong bit can compromise the quality or even the accuracy of your hole. Next, you want to insert a ½ inch bit into the drill and spread a newspaper on a flat surface. You need the newspaper to catch all the dirt and debris that will come from the drilling process. Turn your pot upside down especially if you intend to drill from the outside in. Set the pot on a secure and flat surface such that it doesn't start moving as you begin your drilling. After that, you want to mark on your pot where you want the holes. Ensure that the holes are at least an inch from the edge of the pot and at least 2 inches apart from each other. Note that if the holes are too close together or too close to the edge, they can merge to form bigger holes than what you want. Next, you want to slowly begin applying pressure to the top of the drill. Do not apply too much pressure - just enough to keep the bit from slipping out of place. Press an indentation to the marked spots using a nail. This is to prevent the bit from slipping away. If you are dealing with glazed ceramic, cover the marked spots using masking or painter's tape to keep the bit in place. You are now about to begin the drilling process so you want to put on your safety goggles to prevent pieces of broken ceramic and dust from getting into your eyes. As soon as you start noticing a hole forming in your pot, you can start increasing the speed of your drill. Keep in mind that it may take a bit of time to get through your pot depending on its hardness. However, it will take anywhere from 30 seconds to 2 minutes. In case you feel like you are not getting the results you want, you can switch your drill to the hammer setting. Remember to drill slowly to ensure that the pot does not break. Upon drilling all the way through, gently pull the drill bit back out. If you used tape, this is where you remove it and rinse any residue from the pot. At this point, you are pretty much done with the drilling process but if you notice any sharp edges, you can sand them down to get a smoother result. Now that you know how to drill hole in ceramic pot, we feel that you could use some tips on how to go about it seamlessly. A standard drill bit just won't cut it when it comes to ceramic. You will need something like a carbide tip. The best part is that the bit won't cost as much because for as low as \$10, you can get one. If you are in doubt, get a diamond bit as it can drill any type of material. It is often said that you should measure twice and cut once when it comes to drilling but the consequences of drilling a hole in the wrong place can cost you a lot. In that regard, you want to measure as many times as you need before drilling. When we mentioned that you need masking tape, you probably thought that it was something you can overlook but nothing could be further from the truth. The tape not only makes marking easier, but also helps to keep your drill bit from skidding when drilling. 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