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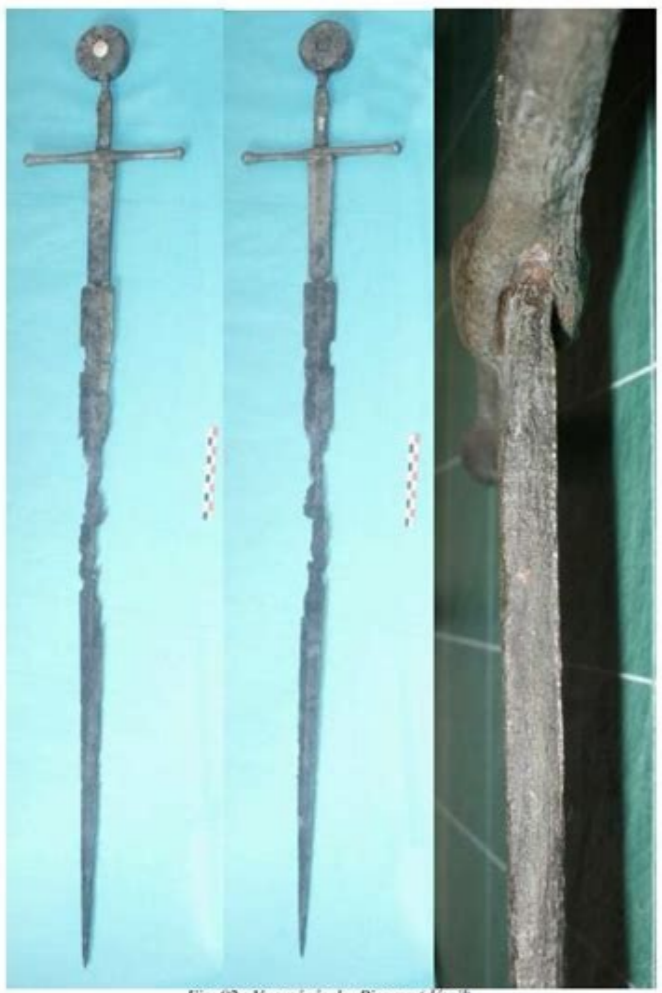


Fig. 92: Yax generalis. Rucarro (donat).



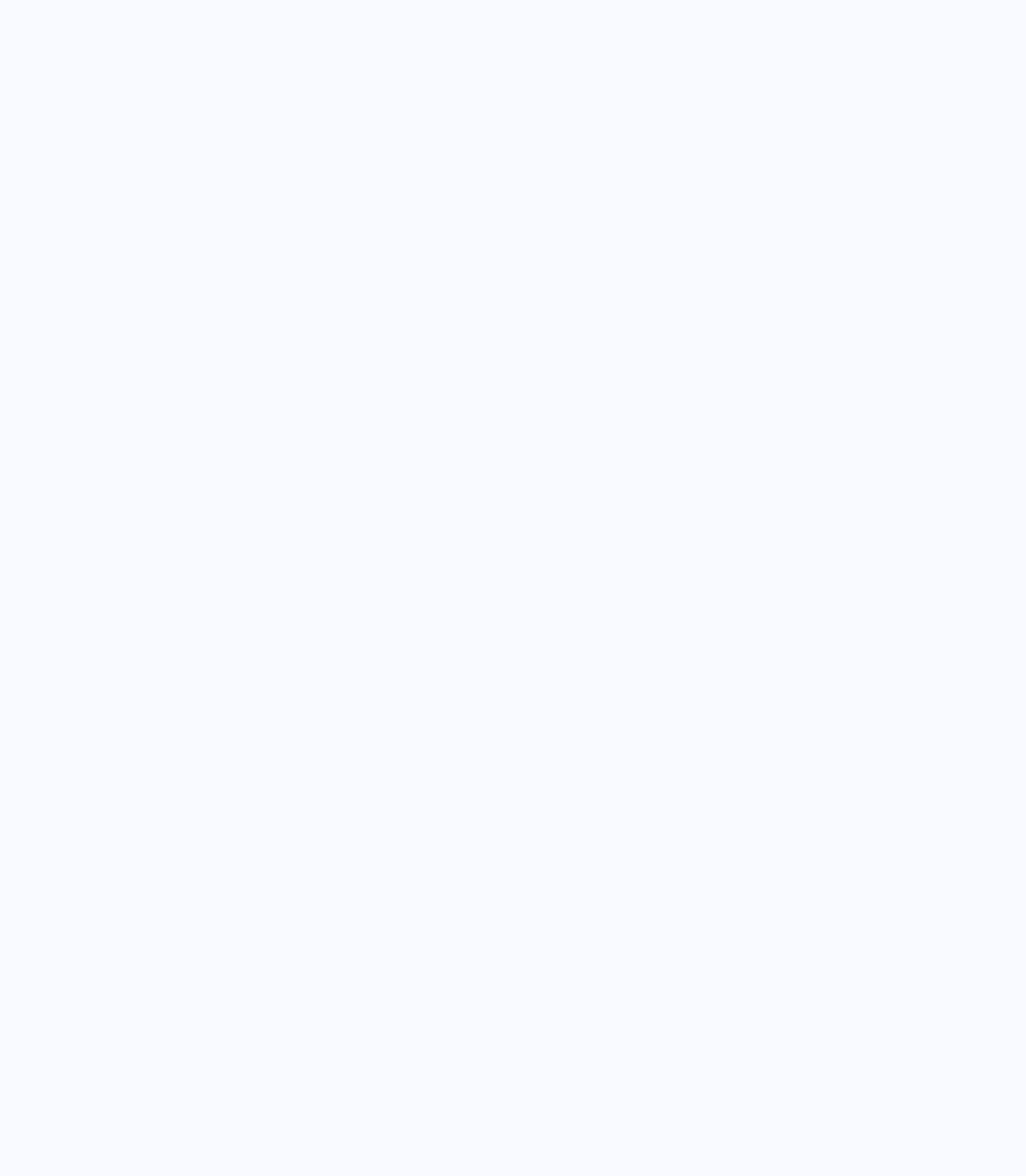
Skipton Castle - Royalist Musketeer c.1645





Download JPG Preview Image Image ID26128894 Color ModeRGB Artist leremygan Sanding down the PVC isn't hard, but it is a messy job, so wear a dust mask while you work. Once all the PVC pipe pieces are cut and the crosses are modified so they slide easily, attach the pipe flanges to the plywood base securely using screws or bolts. He offers first a comprehensive history of siege warfare in Ancient Egypt, Assyria, Judea, Persia, Greece, and Rome as well as Gaul, the Byzantine Empire, the Muslim world, and Medieval Europe. To build your own, use the assembly diagram and list of instructions below. Photograph by Ackerman + Gruber. Around the turn of the 14th century, England's King Edward I led his soldiers north to battle Scottish rebels. In addition, you'll have to modify the 1.25-inch PVC T-fitting so it rotates freely on the falling cross arm. To fire, give it a tug. PVC isn't a particularly strong material, but if you don't go overboard with the amount of weight, it gets the job done. With its first toss, Ludgar broke down an entire 12-foot-thick castle wall, according to 14th-century chronicler Peter Langtoft. Military history buffs can find siege weapons of Ancient Egypt, Judea, Assyria, Persia, Greece and Rome as well as those of the Gauls and Tueton, the Byzantine Empire, the Muslim World and Medieval Europe, all described in incredible detail accompanied by illustrations and photographs. The author offers new ways to reconstruct various siege weapons that are based on his analyses of the works of ancient and medieval authors including Vitruvius, Vegetius, Apollodorus, Athenaeus, Heron, Biton, Philon and many others. By raising the counterweight into the air with a pulley system and then letting it drop, the lever sends the boulder flying with great precision. This article was originally published in the September/October 2016 issue of Popular Science, under the title "A Mini Medieval Siege Weapon." In this richly illustrated guide, author Konstantin Nossov masterfully analyzes and recreates the weaponry, tactics, and stratagems of the ancient world. Tie a rope to the prop, Edward's trebuchets, perhaps the most powerful ones ever made, even had their own names, such as the Forester and the Vicar. to 7 Medieval and Roman War Machines Siege Weapons collection William Gurstelle aims his DIY version of a giant medieval siege engine. This comprehensive and highly illustrated, in colour and black and white, history of siege warfare and siege weapons, also contains a how-to guide for re-creating medieval siege weapons. To throw a projectile—a golf ball or small water balloon—I attach a string to my missile, tie a loop in the other end, and slip the loop over the trebuchet's arm. Called Ludgar, also known as Warwolf, it had enough power to fling 300-pound projectiles. You can try golf balls, small water balloons, or other items of your own choosing for ammunition. To unleash the power of your machine, raise the weighted crossbar and insert a wooden prop to hold it. But Edward was eager to test his new weapon. Then, dry fit all the pipe and pipe fixtures to make sure they fit correctly, adjusting the alignment of the PVC fittings as necessary for smooth operation. When all the pieces are perfectly aligned and slide easily, permanently assemble your trebuchet by solvent-welding the parts together, as shown in the assembly diagram, using PVC primer and cement. Next, build the wooden strike bar and attach it to the plywood base using deck screws. That increases the length of the lever arm and gives you more throwing power. How To Build A Model Trebuchet A counterweight-powered catapult, or trebuchet, is a fairly straightforward machine. Its power comes from a counterweight—often a box that's filled with stones or sand—connected to a lever arm. Chapters on methods of attack and defense show the weapons in action and reveal the various strategies used to implement and to overcome them. This book allows readers actually to re-create their own Medieval weapons with clear step-by-step instructions. A trebuchet uses the force of gravity to fling projectiles. The other end of the arm is attached to a sling that holds a missile, such as a large rock. By the time Edward was ready to accept surrender, only 50 of the castle's 120 defenders remained to crawl out of the rubble. WARNING: Always wear safety glasses in case a pipe breaks, and keep all parts of your body away from the falling weights and fast-moving throwing arm. You can experiment with the positioning of the strike bar for best performance. To get the most distance from your trebuchet, put your projectile in a sling. A wood prop holds the weights in place and also acts as a trigger: When I pull it out of the trebuchet, the weights slide down a pair of guide rails, causing the throwing arm to flip from one side of the trebuchet to the other. Discover, among other weapons, how scaling ladders, battering rams, hovers, siege towers, throwing machines, and finally cannons developed over time. The biggest was erected last. While medieval catapults used a sling attached to the throwing arm, getting those to work properly is tricky, so it's easier to simply attach the sling to the projectile. Eventually, he cornered his foes at Stirling Castle in central Scotland. Inspired by Ludgar, I decided to make my own trebuchet. Outside the castle walls, his English engineers built a phalanx of huge trebuchets. INSTRUCTIONS: First, modify the 1.25-inch PVC crosses so they slide easily down the 1.25-inch PVC vertical pipes. With chapters covering the history of siege warfare, siege weapons, different stratagems and methods of attack and defence, readers will not only walk away with ideas of how to re-create siege weapons, they will also take with them a better understanding of history from ancient times through the end of the fifteenth century AD. To do this, use a rotary tool such as a Dremel with a sanding drum or better, an electric spindle sander to remove enough PVC from the interior of the crosses and T so the pipe slides through it easily. For this miniature version, I built a framework of plastic piping mounted on a stable wooden base. When the arm flips, it hurls the projectile high and far—toward an imaginary castle. I made mine from PVC pipe screwed onto a wooden base. Numerous charts, illustrations, photographs, and tables explain how engineers constructed and adjusted these weapons and how warriors employed them on the battlefield. Before the days of tanks and machine guns, there were scaling ladders, battering rams, siege towers, throwing machines, bores and daggers and weapons such as these symbolize power, protection, control and defiance. For a counterweight, I repurposed a pair of 5-pound barbells. This is merely a wooden bar that flips the throwing arm over when it falls. Unwilling to waste the time and effort spent on his deadly toy, Edward ordered the Scots back inside the castle and continued the siege. Based on an in-depth analysis of the work of ancient engineers, historians, and generals—including Apollodorus, Herodotus, Julius Caesar, Leonardo da Vinci, Livy, Plutarch, Thucydides, Vitruvius, and others—Ancient and Medieval Siege Weapons not only shows you how to recreate the siege weapons themselves but provides a deeper, clearer picture of the history of war. By the time it was completed—four months after the siege began—the Scots were ready to surrender.

A battering ram is a siege engine that originated in ancient times and was designed to break open the masonry walls of fortifications or splinter their wooden gates. In its simplest form, a battering ram is just a large, heavy log carried by several people and propelled with force against an obstacle; the ram would be sufficient to damage the target if the log were massive enough ... The second Arab siege of Constantinople in 717-718 was a combined land and sea offensive by the Muslim Arabs of the Umayyad Caliphate against the capital city of the Byzantine Empire, Constantinople. The campaign marked the culmination of twenty years of attacks and progressive Arab occupation of the Byzantine borderlands, while Byzantine strength was sapped by ...



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