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Naval warfare has undergone tremendous transformations over time. One of the most significant developments in naval warfare was the evolution of naval cannonballs. These projectiles, fired from powerful ship cannons, played a critical role in battles at sea. In this article, we will explore the design, usage, and evolution of naval cannonballs from the early days of gunpowder to modern times.

The earliest naval cannonballs were made of stone or iron, and their balls were small, and their barrels were short. These early cannons were highly inaccurate and often failed to penetrate the thick wooden hulls of enemy ships. Cast bronze cannons from The Mary Rose, Ironically it was the weight of her cannons that sank her! The first significant improvement in naval cannonballs came in the 16th century with the invention of the iron cannonball. These balls were heavier than their stone counterparts and were more accurate when fired. However, they still lacked the power needed to penetrate thick wooden hulls. Naval cannon balls came in various sizes and weights. The size and weight of the ball depended on the type of cannon that fired it. Here is a look at the most common sizes and weights of naval cannon balls:

- 6-pounder ball This ball weighed around 6 pounds and was fired from a 6-pound cannon.
- 9-pounder ball This ball weighed around 9 pounds and was fired from a 9-pound cannon.
- 12-pounder ball This ball weighed around 12 pounds and was fired from a 12-pound cannon.
- 18-pounder ball This ball weighed around 18 pounds and was fired from an 18-pound cannon.
- 24-pounder ball This ball weighed around 24 pounds and was fired from a 24-pound cannon.
- 32-pounder ball This ball weighed around 32 pounds and was fired from a 32-pound cannon.

Naval cannonballs were typically made of cast iron or bronze and were designed to be mounted on swivel gun carriages or fixed gun carriages. The size and weight of the cannon varied depending on its purpose and the size of the ship it was mounted on. Read More:Mysterious Wreck off English Coast Identified as Historic Dutch Warship Cannons were typically classified based on their poundage, which referred to the weight of the cannonball that the cannon could fire. For example, a 12-pounder cannon could fire a cannonball weighing 12 pounds. There were several different types of ships cannons used during the Age of Sail, each with its own specific purpose. Some of the most common types of cannons included: Carronade: The carronade was a short-barreled, large-calibre cannon that was popular during the late 18th and early 19th centuries. It was designed to fire a large, heavy cannonball at close range, and was effective at inflicting damage to an enemy ships hull. Read More:WW2 Shipwreck: Time to Remove 1400 Tons of Explosives Long Gun: The long gun was a longer, more narrow cannon that was designed to fire a smaller, lighter cannonball at longer ranges. It was typically used for long-range engagements, and was often mounted on the upper decks of ships. Swivel Gun: The swivel gun was a small, lightweight cannon that was mounted on a swivel gun carriage. This allowed it to be easily aimed in any direction. It was typically used for close-range engagements, and was effective at repelling boarders or attacking small boats. The crew responsible for operating the cannon consisted of several men. These were primarily the gunner, the loader, the sponger, and the powder monkey. The gunner was responsible for aiming and firing the cannon, while the loader was responsible for loading the cannon with the appropriate type of cannon ball. A powder monkey was responsible for carrying powder to the gun, and a sponger was responsible for cleaning the barrel of the cannon after firing. Loading the cannon was a complex process that required careful coordination and precision. The first step was to prepare the cannon by cleaning it and applying lubricant to the bore. This helped to prevent fouling and made it easier to load the cannon. Read More:Civil War Cannonball Found in River & It Was Live The gun captain would then give the order to load the cannon. The gunner would place a charge bag with the appropriate amount of gunpowder and put it into the cannoneers barrel. In older cannons this was poured in and a wad of paper or cloth used hold the powder in place. British sailors and a gun captain prepare to fire a cannon. Next, the loader would insert the cannonball into the cannoneers muzzle, using a special tool called a rammer to push it down the bore. Finally, the gun captain would give the order to prime the cannon. The gunner would use a small amount of gunpowder to create a spark that would ignite the main charge of powder inside the cannon. The cannon was now ready to be fired. Firing the cannon was a dangerous and physically demanding task that required strength and agility. The gun crew had to work quickly to load and fire the cannon, while avoiding the recoil of the gun. When the gun captain gave the order to fire, the gunner would apply a lighted match or friction primer to the touchhole of the cannon. This would ignite the powder inside the chamber and propel the cannonball out of the muzzle at high speed. The recoil of the gun was significant and could cause serious injury or even death if the gun crew was not careful. The gun crew had to stand clear of the recoil and be ready to quickly load the cannon again if necessary. British and Danish ships firing their cannons at the Battle of Copenhagen in 1801. When this was done and the cannon fired, the sponger would then use a wet sponge to clean the inside of the bore and extinguish any remaining embers or sparks. Th process was then repeated. Overall, the naval cannon gun crew had to work together as a team to load the cannon quickly and fire it accurately, while avoiding trapping fingers and limbs. Cannon balls distance varied based on the type of cannon and the angle at which they were fired. In general, during the 18th and 19th centuries, a cannon ball from a large cannon could fly a distance of up to several miles. However, the most effective range, where they could do the most damage, was usually much shorter. The size of the cannon, the weight of the ball, and the amount of gunpowder used all influenced the distance. So, while they could travel far, the exact distance depended on many factors. Naval cannon balls played a critical role in naval warfare throughout history. The evolution of naval cannon balls from stone and iron balls to the more sophisticated shells and shot allowed naval commanders to inflict significant damage on their enemies. Read More:Civil War Cannonball Found in River & It Was Live The different types of naval cannon balls, including round shot, grape shot, chain shot, shell, and hot shot, gave commanders a variety of tactical options depending on the situation. Ship cannons and their crews were equally critical to the success of naval battles. The size and number of cannons on a ship were determined by its size, and the crew responsible for operating the cannons were skilled and highly trained. Naval cannon balls were used in some of the most famous naval battles in history, including the Battle of Trafalgar and the Spanish Armada. These battles demonstrated the devastating power of naval cannon balls and the importance of their strategic use in naval warfare. Read More:WWII Ammunition Dump Explodes in Berlin's Grunewald Forest In conclusion, naval cannon balls were an essential component of naval warfare throughout history. They allowed commanders to inflict significant damage on their enemies and played a critical role in the outcome of many famous naval battles. Photo by Ken Bolner c/o AmericanRevolutionPhotos.com Cannon were identified by the weight of the ball they were capable of firing. Cannonballs were typically made of cast iron or bronze and were designed to be mounted on swivel gun carriages or fixed gun carriages. The size and weight of the cannon varied depending on its purpose and the size of the ship it was mounted on. Read More:Medal Given to Battle of Trafalgar Hero Aged ELEVEN Auctioned for 15,000 Some of the most common types of cannonballs included: Round Shot: Round shot was a solid iron ball that was fired from the cannon. It was designed to penetrate the hull of an enemy ship and cause damage to its internal structure. Grape-shot: Grape-shot was a type of cannonball that was made up of multiple smaller balls, like a giant shotgun shell. It was designed to be fired at close range and could inflict serious damage to an enemy ships crew. Cannon balls progressed like any other weapon. Here we see canister shot, round shot and shrapnel shot. The attached black powder bags is at the rear. Chain Shot: Chain shot was a type of cannonball that was made up of two balls connected by a chain. It was designed to be fired at the enemy ships rigging, in an attempt to disable its masts and sails. Shell: Shell was a type of cannonball that contained explosive powder. It was designed to explode on impact with the enemy ship, causing significant damage. Hot Shot: Hot shot was a type of cannonball that was heated red-hot before being fired from the cannon. It was designed to set enemy ships on fire and cause horrific fires and damage. Naval cannon balls played a critical role in many famous naval battles throughout history. One such battle was the Battle of Trafalgar, which took place on October 21, 1805, off the coast of Spain. The battle was fought between the Royal Navy of the British and the combined fleets of France and Spain. During the battle, the British used a combination of round shot and grape shot to devastating effect. These round shots were used to damage the enemy ships hulls and rigging, while the grape shot was used to clear the decks of enemy crews. The British victory at the Battle of Trafalgar was largely due to their superior use of naval cannonballs. The Battle of Trafalgar in full swing. Thousands of cannon balls were fired at the enemy ships, causing significant damage. The British fleet emerged victorious, and the French and Spanish fleets were forced to retreat. 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glow red hot with the hope of starting a fire on board the ship, or that the cannonballs would land in the ships magazine and explode with their stored gunpowder. In battles on the land, the cannon shot the projectiles into columns of soldiers, which led to multiple casualties on impact as well as with each subsequent bounce. A single shot was capable of passing through 40 men and often continued to produce additional gruesome injuries.While they do not include an explosive load, cast iron cannonballs recovered after years under the ocean sometimes explode. The time underwater, aided by chemical and biological reactions create gases in the porous cast iron. When brought to the surface, the lower pressure of the atmosphere allows the gases to expand, exploding the already rusty cannonball. MORE FROM REFERENCE.COM

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