

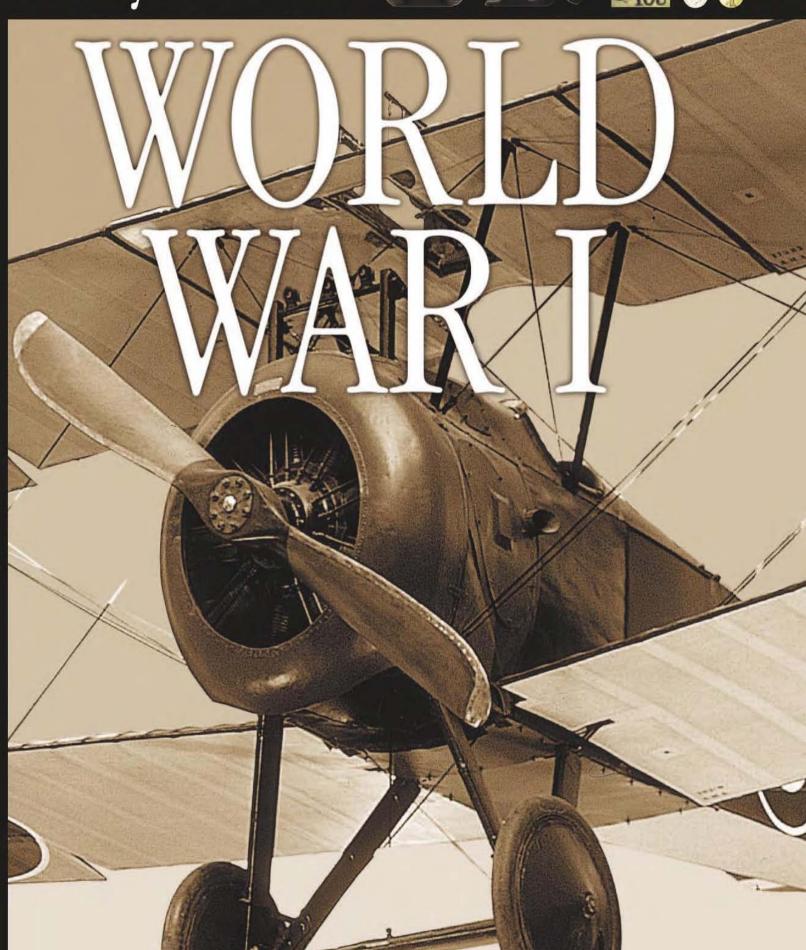
Eyewitness —











Eyewitness WORLD WAR I







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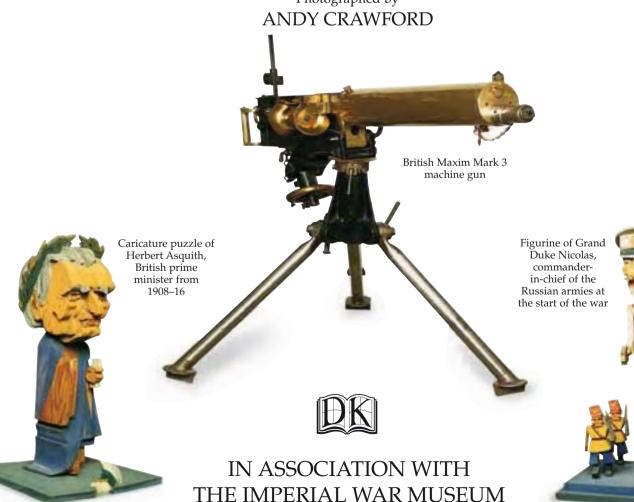
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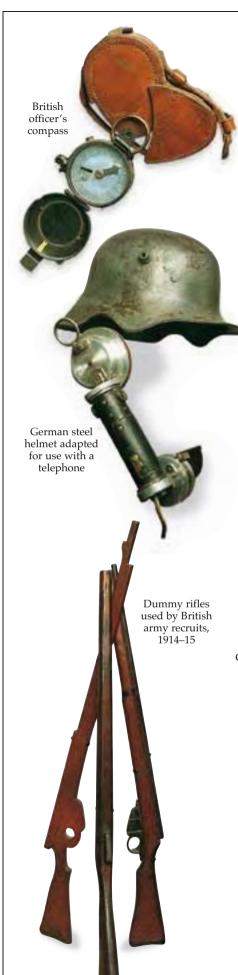


Service Cross

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Photographed by







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British steel helmet with visor



Grenade



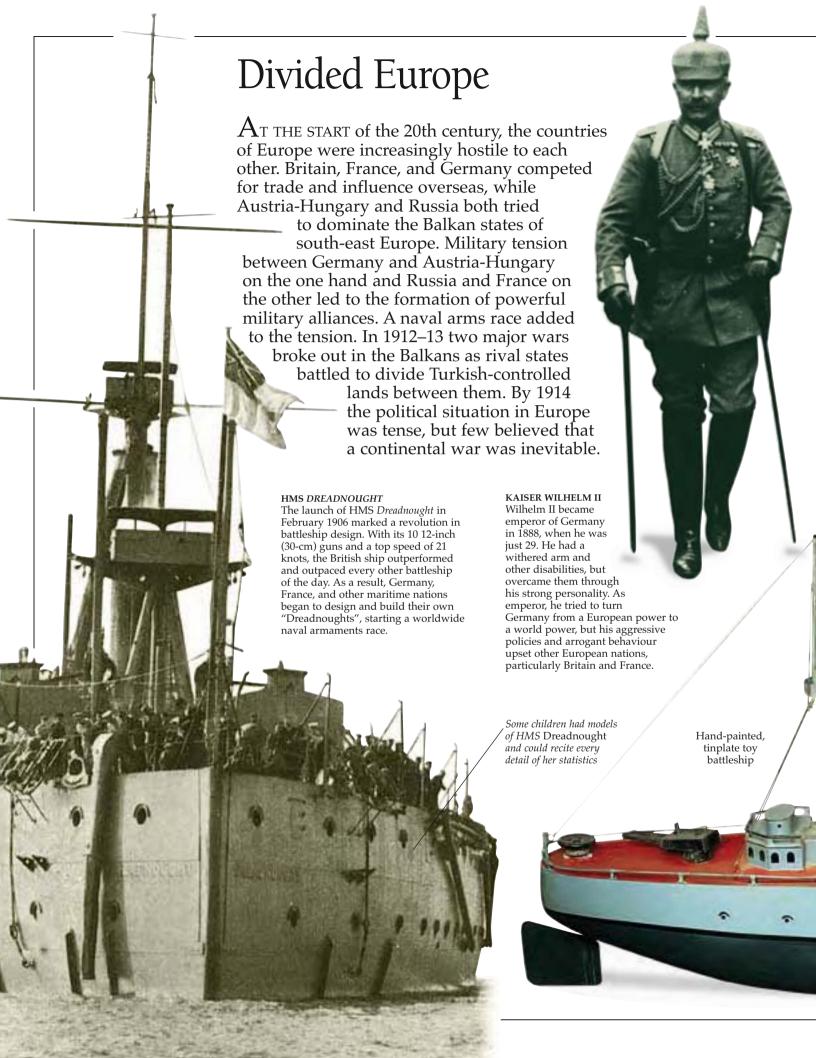
German medical orderly's pouch

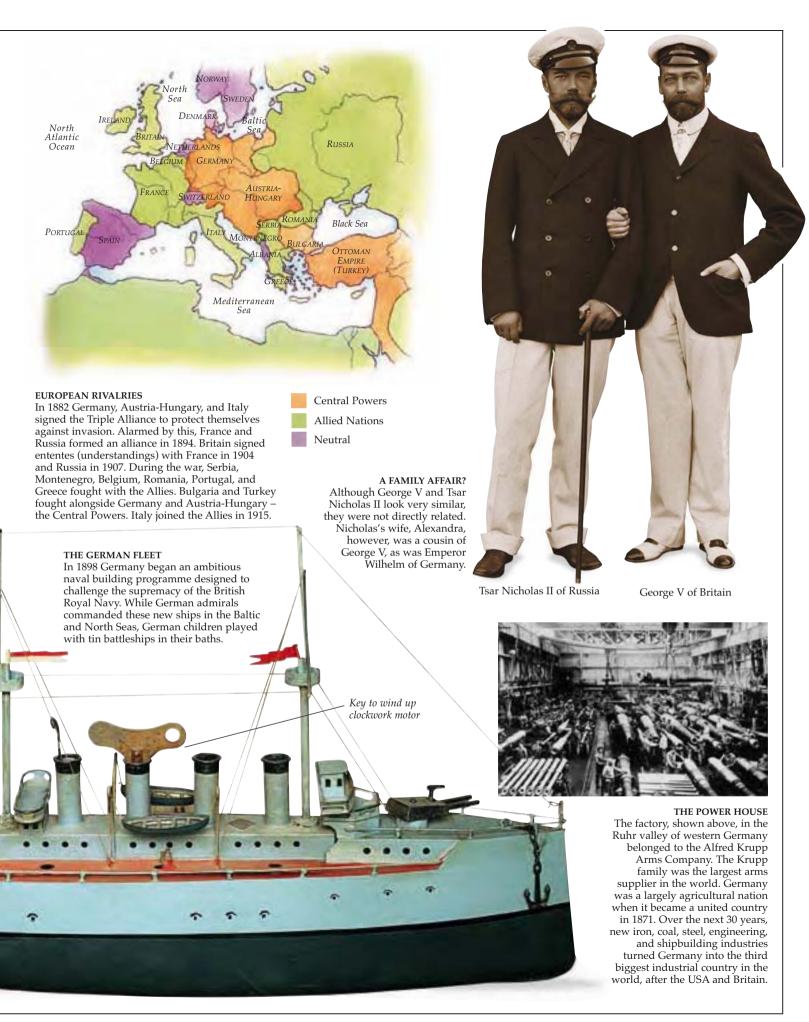
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High explosive shells





THE ASSASSINS Gavrilo Princip, above right, fired the fatal shot. He belonged to the Black Hand that Bosnia should be part of Serbia.

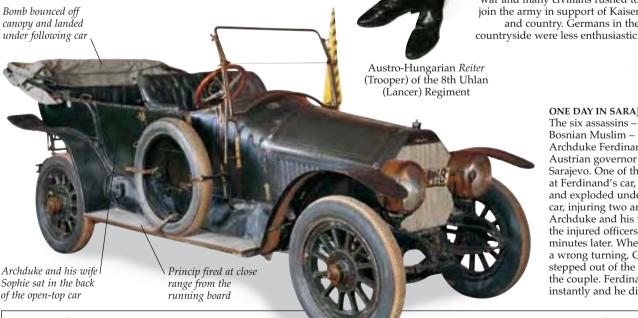
The fatal shot

 \bigcirc N 28 JUNE 1914 the heir to the Austro-Hungarian throne, Archduke Franz Ferdinand. was assassinated in Sarajevo, Bosnia. Bosnia had been part of Austria-Hungary since terrorists, who believed 1908, but it was claimed by neighbouring Serbia. Austria-Hungary blamed Serbia for

the assassination, and on 28 July declared war. What began as the third Balkan war rapidly turned into a European war. Russia supported Serbia, Germany supported Austria-Hungary, and France supported Russia. On 4 August, Germany invaded neutral Belgium on its way to France. It intended to knock France out of the war before turning its attention to Russia, thus avoiding war on two fronts. But Britain had guaranteed to defend Belgium's neutrality, and it too declared war on Germany. The Great War had begun.

THE AUSTRO-HUNGARIAN ARMY

The Austro-Hungarian empire had three armies – Austrian, Hungarian, and the "Common Army". Ten main languages were spoken! The official one was German, but officers had to learn their men's language, leading to frequent communication difficulties. The complex structure of the army reflected Austria-Hungary itself, which in reality was two separate monarchies ruled by one monarch.



28 June Archduke Franz Ferdinand is assassinated in Sarajevo 5 July Germany gives its ally, Austria-Hungary total support for any action it takes against Serbia

23 July Austria issues a drastic ultimatum to Serbia, which would undermine Serbian independence 25 July Serbia agrees to most of

Austria-Hungary's ultimatums, but still mobilizes as a safety precaution

28 July Austria-Hungary ignores Serbia's readiness to seek a peaceful



During July 1914, military notices were posted up across Europe informing citizens that their country's army was being mobilized (prepared) for war and that all those belonging to regular and reserve forces should report for duty.

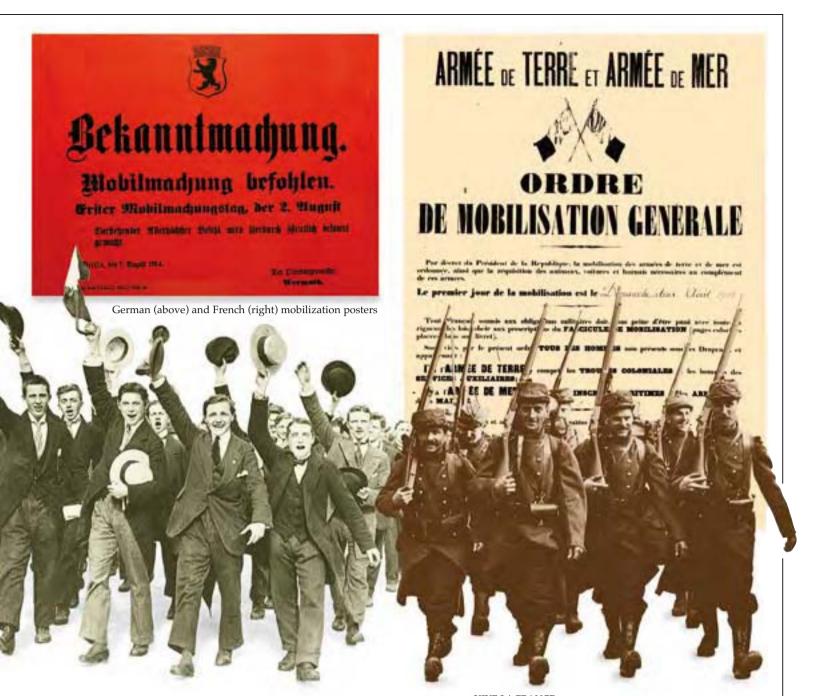
GERMANY REJOICES Germany prepared its army on 1 August, declaring war against Russia later the same evening and against France on 3 August. Most Germans in the cities were enthusiastic for the war and many civilians rushed to join the army in support of Kaiser and country. Germans in the

ONE DAY IN SARAJEVO

The six assassins - five Serbs and one Bosnian Muslim – lay in wait along Archduke Ferdinand's route to the Austrian governor's residence in Sarajevo. One of them threw a bomb at Ferdinand's car, but it bounced off and exploded under the following car, injuring two army officers. The Archduke and his wife went to visit the injured officers in hospital 45 minutes later. When their car took a wrong turning, Gavrilo Princip stepped out of the crowd and shot the couple. Ferdinand's wife died instantly and he died 10 minutes later.

> end to the crisis and declares war 30 July Russia mobilizes in support of its ally, Serbia

31 July Germany demands that Russia stop its mobilization





1 August Germany mobilizes against Russia and declares war; France mobilizes in support of its ally, Russia; Germany signs a treaty with Ottoman Turkey; Italy declares its neutrality

2 August Germany invades
Luxembourg and demands the
right to enter neutral Belgium,
which is refused

VIVE LA FRANCE

The French army mobilized on 1 August. For many Frenchmen, the war was an opportunity to seek revenge for the German defeat of France in 1870–71 and the loss of Alsace-Lorraine to German control.

ALL ABOARD!

The German slogans on this westbound train read "Day trip to Paris" and "See you again on the Boulevard", as all Germans believed that their offensive against France would soon take them to Paris. French trains heading east towards Germany carried similar messages about Berlin.

"The lamps are going out all over Europe"

SIR EDWARD GREY BRITISH FOREIGN SECRETARY, 1914

3 August Germany declares war on France on France
 4 August Germany invades
 Belgian neutrality
 6 August Austria-Hungary
 declares war on Russia
 12 August France and Britain
 declare war on Austria-Hungary



CHRISTMAS TREAT The London Territorial Association sent each of their soldiers a Christmas pudding in 1914. Other soldiers received gifts in the name of Princess Mary, daughter of King George V.

War in the west

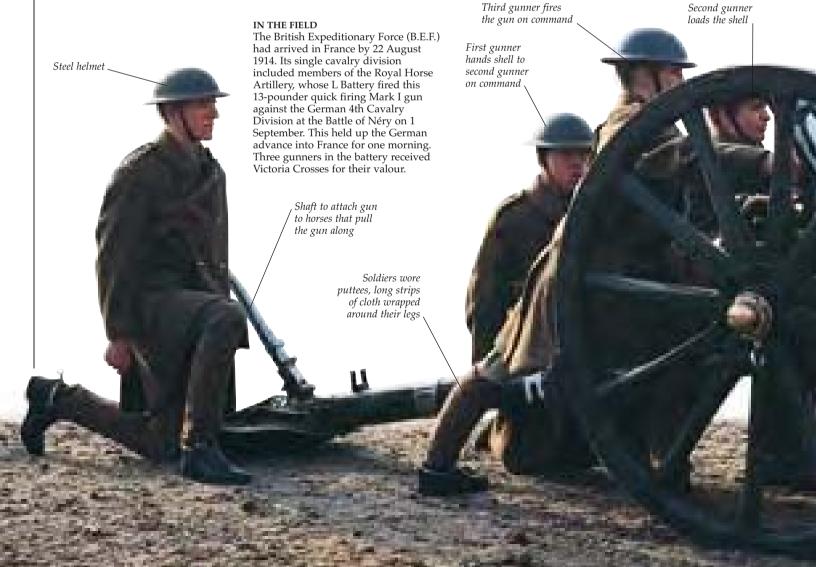
Ever since the 1890s, Germany had feared that it would face a war on two fronts – against Russia in the east and against France, Russia's ally since 1893, in the west. Germany knew the chances of winning such a war were slim. By 1905, the chief of the German staff, Field Marshal Count Alfred von Schlieffen, had developed a bold plan to knock France swiftly out of any war before turning the full might of the German army against Russia. For this plan to work, the

German army had to pass through Belgium, a neutral country. In August 1914, the plan went into operation. German troops crossed the Belgian border on 4 August, and by the end of the month, invaded northern France. The Schlieffen Plan then required the army to sweep around the north and west of Paris, but the German commander, General Moltke, modified the plan and instead headed east of Paris. This meant his right flank (side) was exposed to the French and British armies. At the Battle of the Marne on 5 September, the German advance was held and pushed back. By Christmas 1914, the two sides faced stalemate along a line from the Belgian coast in the north to the Swiss border in the south.

IN RETREAT

The Belgian army was too small and inexperienced to resist the invading German army. Here, soldiers with dog-drawn machine guns are withdrawing







THE CHRISTMAS TRUCE

On Christmas Eve 1914, soldiers on both sides of the Western Front sang carols to each other in comradely greeting. The following day, troops along two-thirds of the front observed a truce. All firing stopped, and church services were held. A few soldiers crossed into no-man's-land to talk to their enemy and exchange simple gifts of cigarettes and other items. Opposite Ploegsteert Wood, south of Ypres, Belgium, a game of football took place between members of the German Royal Saxon Regiment and the Scottish Seaforth Highlanders. The Germans won 3–2. In some places, the truce lasted for almost a week. A year later, however, sentries on both sides were ordered to shoot anyone attempting a repeat performance.

> Soldier shooting at enemy with a note saying "Christmas Eve – Get 'em!"

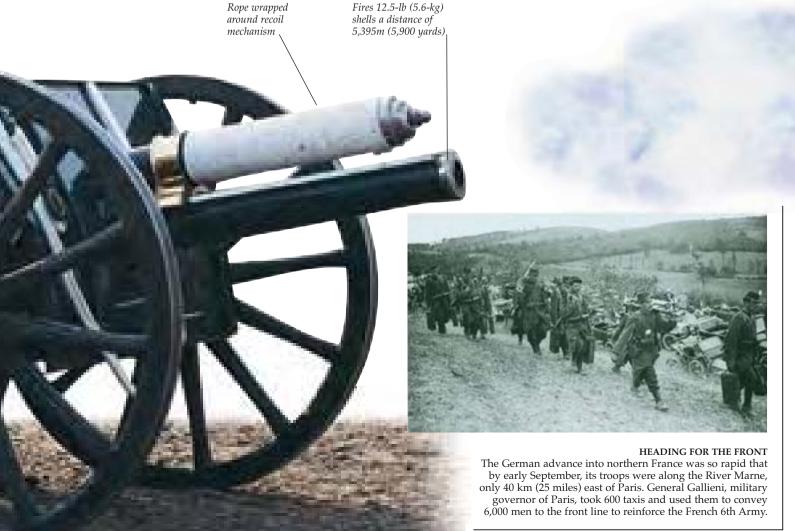
British and German soldiers greeting each other on Christmas Day



Capt of the Garv letter

Captain E.R.P. Berryman of the 2nd Battalion 39th Garwhal Rifles, wrote a letter home describing the truce. He told his family that the Germans had put up Christmas trees in their trenches. This cartoon illustrates the absurdity of his situation – shooting the enemy one day and greeting them as friends the next.

German trench



Fighting men

The Outbreak of War in Europe in August 1914 changed the lives of millions of men. Regular soldiers, older reservists, eager recruits, and unwilling conscripts all found themselves caught up in the war. Some of them were experienced soldiers, but many had barely held a rifle before. In addition to the European forces, both Britain and France drew heavily on armies recruited from their overseas colonies and from the British dominions. The design and detail of their uniforms differed considerably, although brighter colours soon gave way to khaki, dull blue, and grey.

GRAND DUKE NICOLAS

At the outbreak of war, the Russian army was led by Grand Duke Nicolas, uncle of Tsar Nicholas II. In August 1915, the Tsar dismissed his uncle and took command himself. As commander-in-chief, the Tsar dealt with the overall strategy of the war. The Russian armies were led by generals who directed the battles. The other warring countries employed similar chains of command.



EMPIRE TROOPS

The British and French armies included large numbers of recruits from their colonial possessions in Africa, Asia, the Pacific, and the Caribbean. In addition, the British dominions of Australia, New Zealand, Canada, and South Africa sent their own armies to take part in the conflict. Many of these troops had never left their home countries before. These Annamites (Indo-Chinese), above, from French Indo-China were stationed with the French army at Salonika, Greece, in 1916. They wore their own uniforms rather than those of the French army.

EASTERN ALLIES

In Eastern Europe, Germany faced the vast Russian army, as well as smaller armies from Serbia and Montenegro. In the Far East, German colonies in China and the Pacific Ocean were invaded by Japan. These illustrations come from a poster showing Germany's enemies.



France

Hat flaps could be pulled down to

keep out the cold

Jerkin could be

made of goat-



oining up

Small box respirator gas mask

European country but one had a large standing army of conscripted troops ${
m A}$ t the outbreak of war, every ready to fight. The exception was Britain, which had a small army August 1914, the Secretary of made up of volunteers. On 6 of patriotic men queued to War, Lord Kitchener, asked Whole streets and villages for 100,000 new recruits.

enlist. Most thought they would end of 1915, 2,446,719 men had be home by Christmas. By the

> caricatured as "the last **British Prime Minister** Herbert Asquith was

WAR LEADER

of the Romans" and replaced by David Lloyd George in December 1916.

fight. Large numbers failed this test, because of poor eyesight, chest complaints, or general ill health. Others were refused because they were under 19, although many lied about their age. Once he passed the test, the recruit took the oath of

oyalty to the king and was then accepted into the army.

Every British recruit had to undergo a medical test to make sure he was fit to

THE TEST

depleted ranks of soldiers. In January 1916, conscription was introduced or all single men aged 18-41

volunteered, but more were needed to fill the

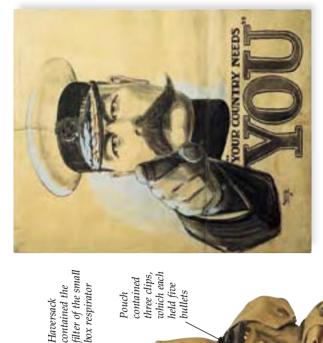


OUEUE HERE FOR KING AND COUNTRY so they could fight together. By mid-At the outbreak of war, long queues formed at recruiting offices around September, half a million men had to form the famous Pals battalions, area or industry grouped together the country. Men from the same





pouches on belt Two sets of five ammunition volunteered to fight.



bullets

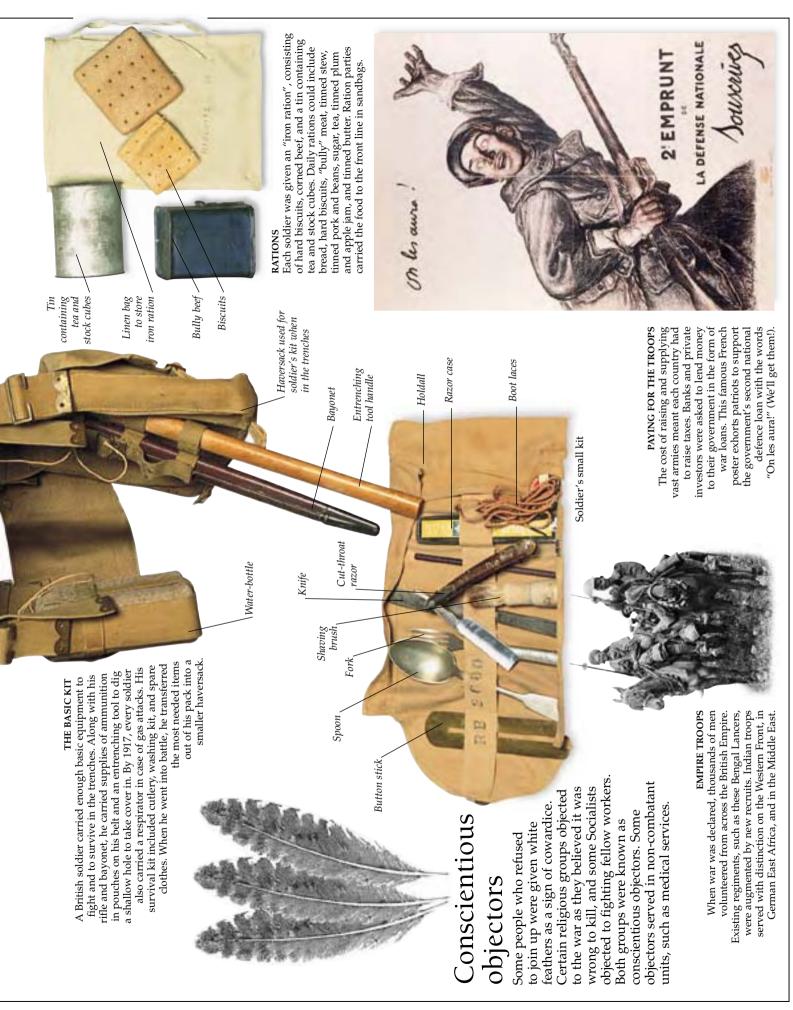
box respirator contained the

Haversack

Pouch

time it appeared in late September 1914, however, most potential recruits had already volunteered. Kitchener was used as a recruiting poster. By the A portrait of British War Minister, General "YOUR COUNTRY NEEDS YOU"

14



Ypres Passchendaele BELGIUM River Somme Amiens Luxembourg River Marne Paris Paris

Front line of trenches

THE FRONT LINE

By December 1914, a network of trenches stretched along the Western Front from the Belgian coast in the north down through eastern France to the Swiss border, 645 km (400 miles) in the south. By 1917, it was possible in theory to walk most of the length of the front along the winding trench network.

THE FIRST TRENCHES

Early trenches were just deep furrows, which provided minimal cover from enemy fire. These troops from the 2nd Scots Guards dug this trench near Ypres in October 1914. Their generals believed that such trenches were only temporary, as the "normal" war of movement would resume in the spring.

Digging the trenches

At the outbreak of war, both sides on the Western Front expected to take part in massive military manoeuvres over hundreds of kilometres of territory, and to fight fast-moving battles of advance and retreat. No-one expected a static fight between two evenly matched sides. A stalemate occurred mainly because powerful long-range artillery weapons and rapid-fire machine guns made it dangerous for soldiers to fight in unprotected, open ground. The only way to survive such weapons was to dig defensive trenches.



ENTRENCHING TOOLS

Each soldier carried an entrenching tool. With it, the soldier could dig a scrape – a basic protective trench – if he was caught out in the open by enemy fire. He could also use it to repair or improve a trench damaged by an enemy artillery bombardment.

American M1910 entrenching tool



SIGNPOSTS

Each trench was signposted to make sure no-one lost his way during an attack. Nicknames frequently became signposted names.

cover





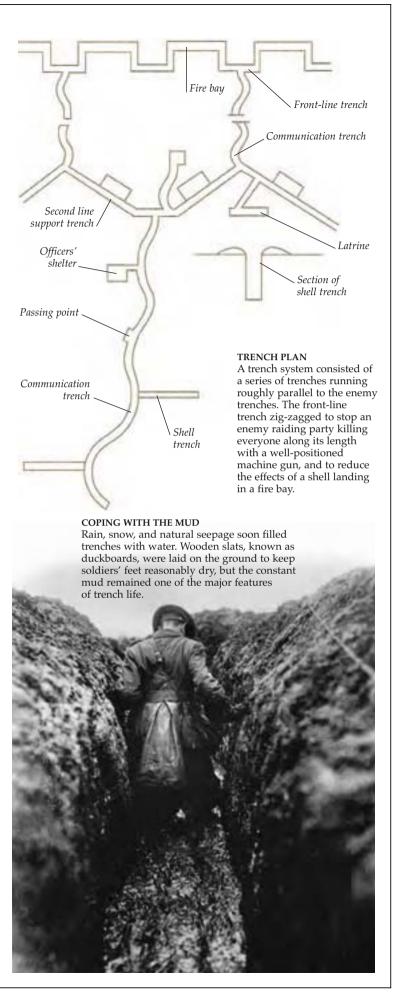
BOARDED UP

One of the main dangers of trench life was the possibility of being buried alive if the walls collapsed. By summer 1915, many German trenches were reinforced with wooden walls to prevent this happening. They were also dug very deep to help protect the men from artillery bombardments.

HOME SWEET HOME?

The Germans constructed very elaborate trenches because, as far as they were concerned, this was the new German border. Many trenches had shuttered windows and even doormats to wipe muddy boots on! Allied trenches were much more





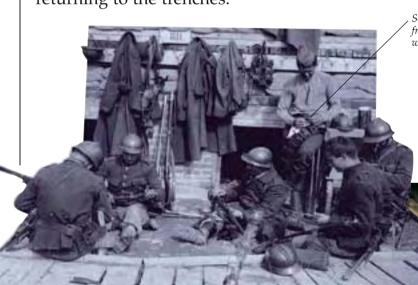
Life in the trenches

Daytime in the trenches alternated between short periods of intense fear, when the enemy fired, and longer periods of boredom. Most of the work was done at night when patrols were sent out to observe and raid enemy trenches, and to repair their own front-line parapets and other defences. Dawn and dusk were the most likely times for an enemy attack, so all the troops "stood to", that is manned the fire bays, at these times. The days were usually quiet, so the men tried to catch up on sleep while sentries watched the enemy trenches. Many soldiers used this time to write home or keep a diary of events. There were no set mealtimes on the front line, and soldiers ate as and when transport was available to bring food to the front by carrying parties. To relieve the boredom, soldiers spent one week to 10 days in the front line, then moved into the reserve lines, and finally went to a rear area to rest. Here, they were given a bath and freshly laundered clothes before returning to the trenches.



A LITTLE SHELTER

The trenches were usually very narrow and often exposed to the weather. The Canadian soldiers in this trench have built a makeshift canopy to shelter under. The sides are made of sandbags piled on top of each other.



Soldier removing mud from ammunition pouch with a piece of cloth

A RELAXING READ? This re-creation from London's Imperial War Museum shows a soldier reading. While there was plenty of time for the soldiers to read during the day, they were often interrupted by rats scurrying past their feet and itching lice in their clothes.



CLEAN AND TIDY

The cleaning of kit and the waterproofing of boots was as much a part of life in the trenches as it was in the barracks back home. These Belgian soldiers cleaning their rifles knew that such tasks were essential to maintaining combat efficiency.

OFFICERS' DUG-OUT

This re-creation in London's Imperial War Museum of an officers' dug-out on the Somme in autumn 1916 shows the cramped conditions people endured in the trenches. The officer on the telephone is calling in artillery support for an imminent trench raid, while his weary comrade is asleep behind him on a camp bed. Official notices, photographs, and postcards from home are pinned around the walls.





Ready to fight

 I_{T} is easy to imagine that most of the action on the Western Front took place when soldiers left their trenches and fought each other in open ground, or noman's-land, between the two opposing front lines. In reality, such events were far rarer than the constant battle between soldiers in their facing lines of trenches. Both armies took every opportunity to take shots at anyone foolish or unfortunate enough to be visible to the other side. Even soldiers trying to rescue wounded comrades from no-man's-land or retrieve bodies caught on the barbed-wire fences were considered fair targets. Raiding parties from one front line to the other added to the danger. This relentless war of attrition kept every soldier on full alert, and meant that a watch had to be kept on the enemy lines every hour of the day.

PREPARE TO FIRE

These German troops on the Marne in 1914 are firing through purpose-built gun holes. This enabled them to view and fire at the enemy without putting their heads above the parapet and exposing themselves to enemy fire. Later on in the war, sandbags replaced the earth ramparts. On their backs, the troops carry leather knapsacks with rolled-up greatcoats and tent cloths on top.





WALKING WOUNDED

This recreation in London's Imperial War Museum shows a wounded German prisoner being escorted by a medical orderly from the front line back through the trench system to a regimental aid post. Many, however, were not so fortunate. A soldier wounded in no-man'sland would be left until it was safe to bring him back to his trench, usually at nightfall. Many soldiers risked their lives to retrieve wounded comrades. Sadly some soldiers died because they could not be reached soon enough.



Battalion medical officers, as shown in this recreation from London's Imperial War Museum, worked through the heat of battle and bombardment to treat the flood of casualties as best they could. They dressed wounds, tried to relieve pain, and prepared the badly wounded for the uncomfortable



FIELD TELEPHONE Telephones were the main communication method between the front line and headquarters. They relayed voice and Morse code messages.





Communicating with and supplying front-line troops is the biggest problem faced by every army. On the Western Front, this problem was particularly acute because of the length of the front line and the large number of soldiers fighting along it. In mid-1917, for example, the British army required 500,000 shells a day, and millionshell days were not uncommon. To supply such vast and hungry armies, both sides devoted great attention to



GETTING IN TOUCH

Teams of engineers - such as this German group - were trained to set up, maintain, and operate telephones in the field. This allowed closer and more regular contact between the front line and HQ than in previous wars.

lines of communication. The main form of transport remained the horse, but increasing use was made of mechanized vehicles. Germany made great use of railways to move men and supplies to the front. Both sides set up elaborate supply systems to ensure that front-line troops never ran out of munitions or food. Frontline troops also kept in close touch with headquarters and other units by telephone and wireless.



MISSILE MESSAGES

Enemy fire often cut telephone lines, so both sides used shells to carry written messages. Flares on the shells lit up to signal their arrival. Signal grenades and rockets were also widely used to convey pre-arranged messages to front-line troops.



German message shell

French army pigeon handler's



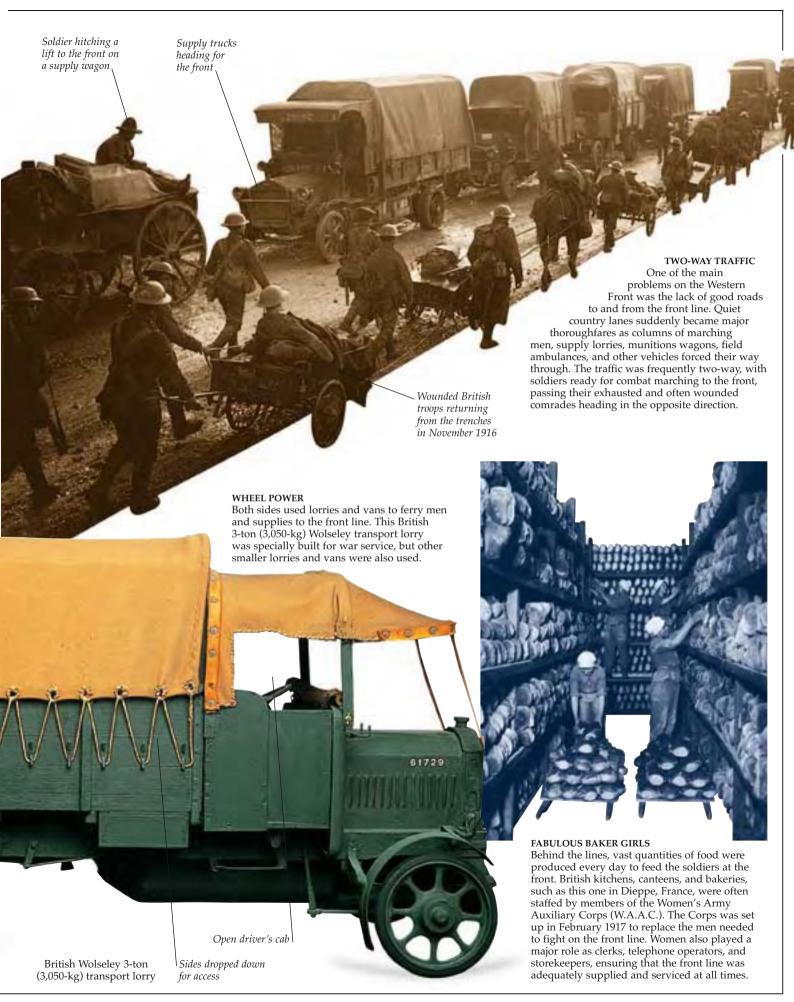


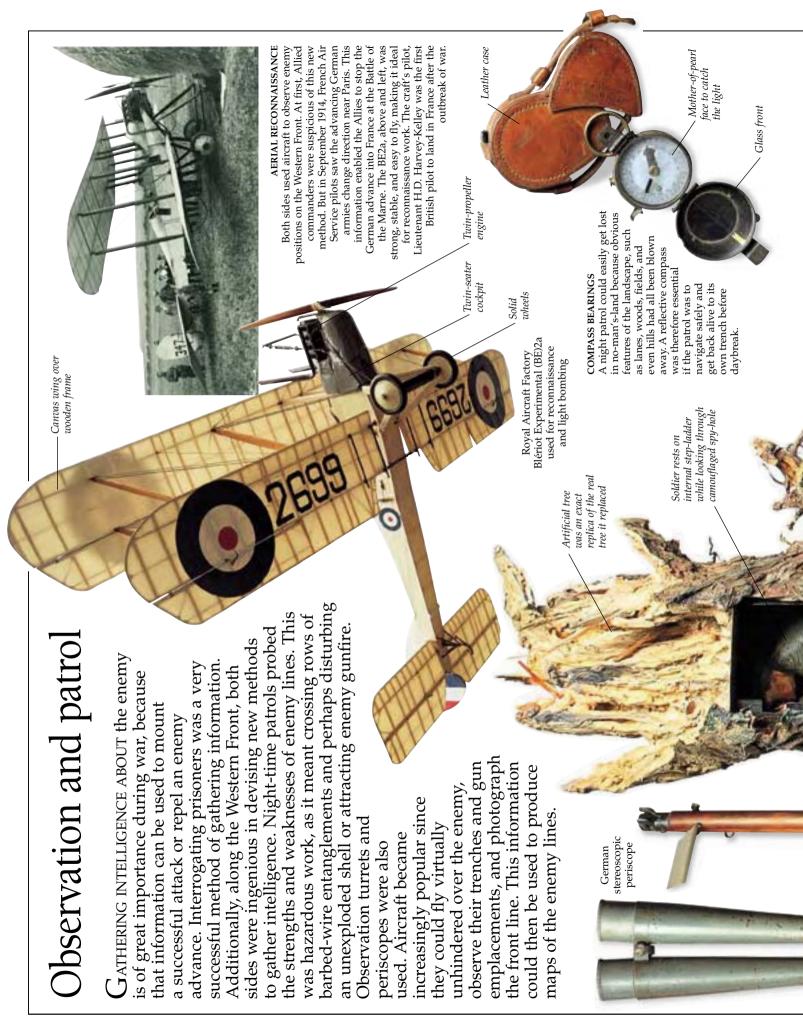


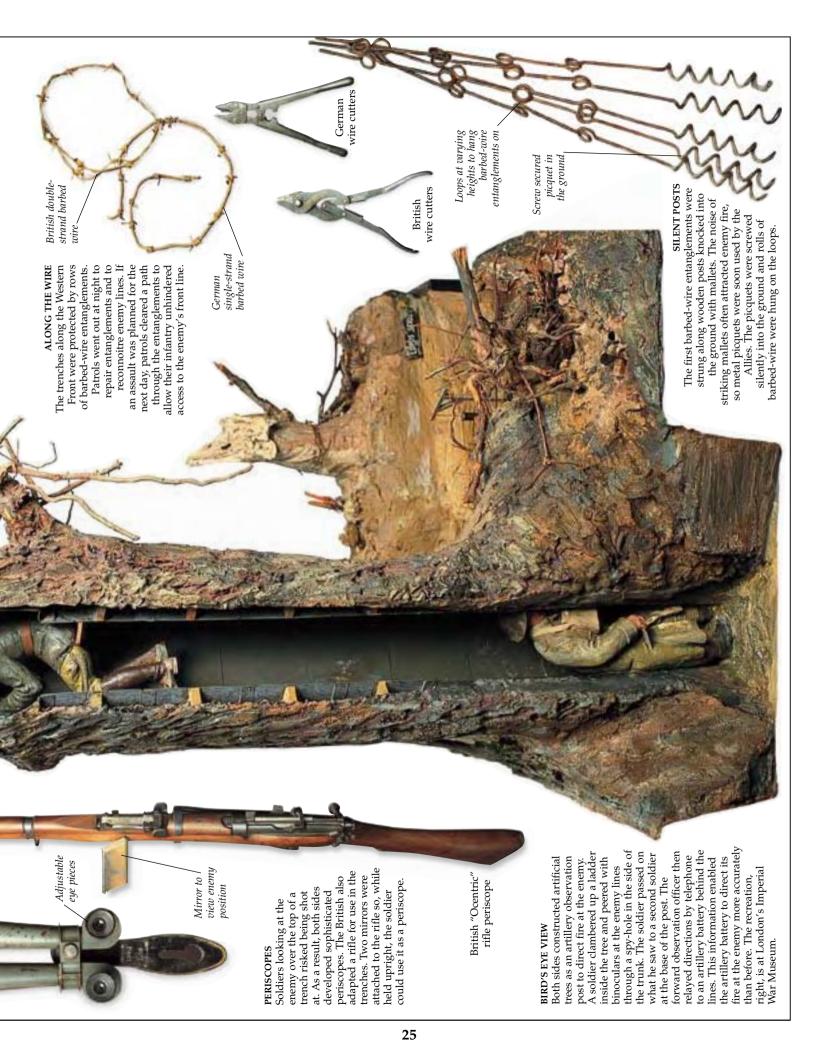
PIGEON POST

Carrier pigeons were often used to carry messages to and from the front line where telephone lines did not exist. In fact, the noise and confusion of the front meant that the birds easily became bewildered and flew off in the wrong direction. Germany used "war dogs" specially trained to carry messages in containers on their collars.











SIGHT SAVER

In 1916–17 a chain-mail visor was added to the basic British helmet to protect the eyes. Visors were soon removed as they were difficult to see through.



BEWARE!

Soldiers at the front needed constant reminders to keep their heads down as they were so used to shells flying past. Warning signs were common.

Bombardment

ARTILLERY DOMINATED the battlefields of World War I. A well-aimed bombardment could destroy enemy trenches, and knock out artillery batteries and communication lines. It could also help break up an infantry attack. But as defensive positions strengthened, artillery bombardments became longer and more intense. New tactics were required to break down enemy lines. The most effective was the creeping barrage, which rained down a moving curtain of heavy and insistent fire just ahead of attacking infantry.





plates to cover lower body

Helmet

Visor for extra



HIDING THE GUN

Two main types of artillery were used during the war – light field artillery, pulled by horses, and heavier guns, such as howitzers, moved by tractor and set up on reinforced beds. Once in place, artillery pieces were camouflaged to conceal them from the enemy.

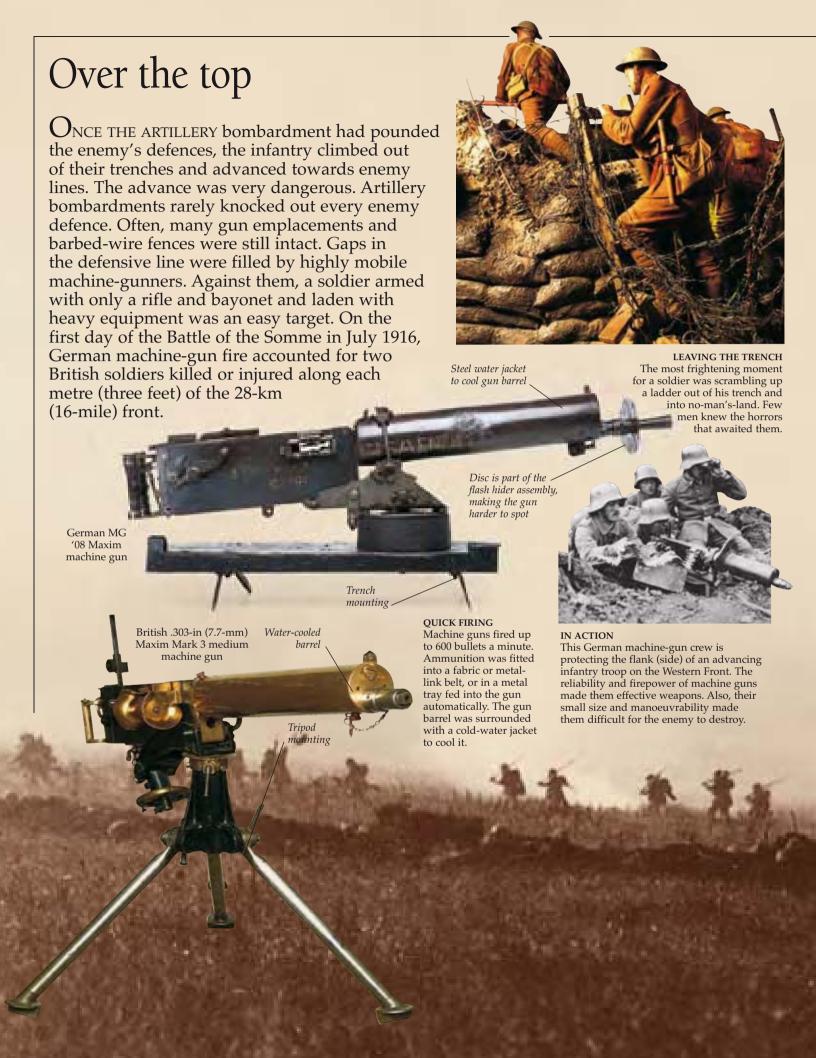
British 8-in (20-cm) Mark V howitzer

SHELL POWER

The huge number of shells needed to maintain a constant artillery barrage against the enemy can be seen in this photograph of a British shell dump behind the Western Front.









"The sunken road ... (was) ... filled with pieces of uniform, weapons, and dead bodies."

LIEUTENANT ERNST JUNGER, GERMAN SOLDIER, THE SOMME, 1916

First day on the Somme

The Allies planned to break through the German lines north of the River Somme, France, in 1916. On 24 June, the British began a six-day artillery bombardment on German lines, but the Germans retreated into deep bunkers and were largely unharmed. As the British infantry advanced at 7.30 am on 1 July, German machine gunners emerged from their bunkers and opened fire. Believing the artillery bombardment had destroyed German lines, the infantry marched in long, slow waves towards the enemy who literally mowed them down.

Below: Soldiers of the 103rd (Tyneside Irish) Brigade attack La Boisselle on the first day of the Somme

TENDING THE WOUNDED

The cramped conditions in a trench can be seen in this picture of an army medical officer tending a wounded soldier at Thiepval near the Somme in September 1916. Movement along a trench was often difficult and slow.

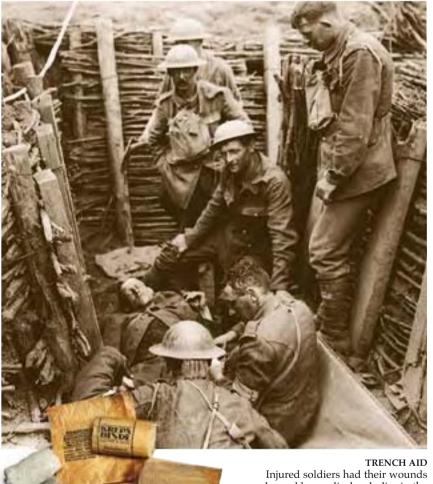
Casualty

German

bandages

 $N_{\text{O-ONE KNOWS}}$ how many soldiers were wounded in the war, but a possible figure is 21 million. Caring for casualties was a major military operation. They were first treated at regimental aid posts in the trenches. Then, they were taken to casualty clearing stations behind the front line. Here, they received proper medical attention and basic surgery, if required, before being transported to base hospitals still further from the front. Soldiers with severe injuries went home to recover in convalescent hospitals. Over 78% of British soldiers on the Western Front returned to active service. Sickness was a major cause of casualty – in Mesopotamia over 50% of deaths were due to disease.





dressed by medical orderlies in the trench where they fell. They were then transferred to the regimental aid post, where their injuries could be assessed. Strip of lace curtain

RECYCLED BANDAGES

Following the naval blockade by Britain, Germany ran out of cotton and linen. Wood fibre, paper, and lace curtains were used to make bandages instead.



Inventory listing contents and where to find them in the pouch

Bottles of liquid antisepticsand painkillers

THE GERMAN KIT





Shellshock

and knives for

amputation

Shellshock is the collective name that was used to describe concussion, emotional shock, nervous exhaustion, and other similar ailments. Shellshock was not identified before World War I, but trench warfare was so horrific that large numbers of soldiers developed symptoms. Most of them eventually recovered, but some suffered nightmares and other effects for the rest of their lives. The condition caused great controversy, and in 1922 the British War Office Committee announced that shellshock did not exist and was a collection of already known illnesses.

injuries from bullets and shell fragments

that required immediate attention.



A medical orderly helps a wounded soldier away from the trenches

Bunks for the injured to lie on

AMBULANCE

The British Royal Army Medical Corps, like its German counterpart, had a fleet of field ambulances to carry the wounded to hospital. Many of these ambulances were staffed by volunteers, often women, and those from non-combatant countries such as the USA.

wounded. Care was basic, and many were left to help themselves.

Women at war

WHEN THE MEN went off to fight, the women were called upon to take their place. Many women were already in work, but their role was restricted to domestic labour, nursing, teaching, agricultural work on the family smallholding, and a few other jobs considered suitable for women. Now they went to work in factories, drove trucks and ambulances, and did almost everything that only men had done

before. Many working women left their low-paid, low-status jobs for higher-paid work in munitions and other industries, achieving a new status in the eyes of society. Such gains, however, were short-lived, as most women returned to the home when the war ended.

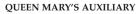


For some women, the war was a big adventure. English nurse Elsie Knocker (above) went to Belgium in 1914 where she was joined by Scottish Mairi Chisholm. The women set up a dressing station at Pervyse, Belgium, and dressed the wounded until both were gassed in 1918. They were almost the only women on the front line. The two became known as the Women of Pervyse and were awarded the Order of Leopold by Belgian King Albert, and the British Military Medal. Elsie later married a Belgian officer, Baron de T'Sercles.



ARMY LAUNDRY

Traditional pre-war women's work, such as working in a laundry or bakery, continued during the war on a much larger scale. The French women employed at this British Army laundry at Prevent, France in 1918 were washing and cleaning the dirty clothes of many thousands of soldiers every day.



Few women actually fought in the war, but many were enlisted into auxiliary armies so that men could be released to fight on the front line. They drove trucks, mended engines, and did much of the necessary administration and supply work. In Britain, many women joined The Women's (later Queen Mary's) Army Auxiliary Corps, whose recruiting poster featured a khaki-clad woman (left) with the words "The girl behind the man behind the gun". The women remained civilians, despite their military work.



WOMEN'S LAND ARMY

The war required a huge increase in food production at home as both sides tried to restrict the enemy's imports of food from abroad. In Britain, 113,000 women joined the Women's Land Army, set up in February 1917 to provide a well-paid female workforce to run the farms. Many members of the Land Army, such as this group of healthy looking women, came from the middle and upper classes. They made a valuable contribution, but their numbers were insignificant compared with the millions of working-class women already employed on the land in the rest of Europe.



TOEIJIBIN SAEMB.

ВСЕ ДЛЯ ВОИНЫ!

SUPPORT YOUR COUNTRY

Images of "ideal" women were used to gain support for a country's war effort. This Russian poster urges people to buy war bonds (fund-raising loans to the government) by linking Russian women to the love of the motherland.

RUSSIA'S AMAZONS

A number of Russian women joined the "Legion of Death" to fight for their country. The first battalion from Petrograd (St Petersburg) distinguished itself by taking more than 100 German prisoners during a Russian retreat although many of the women died in the battle



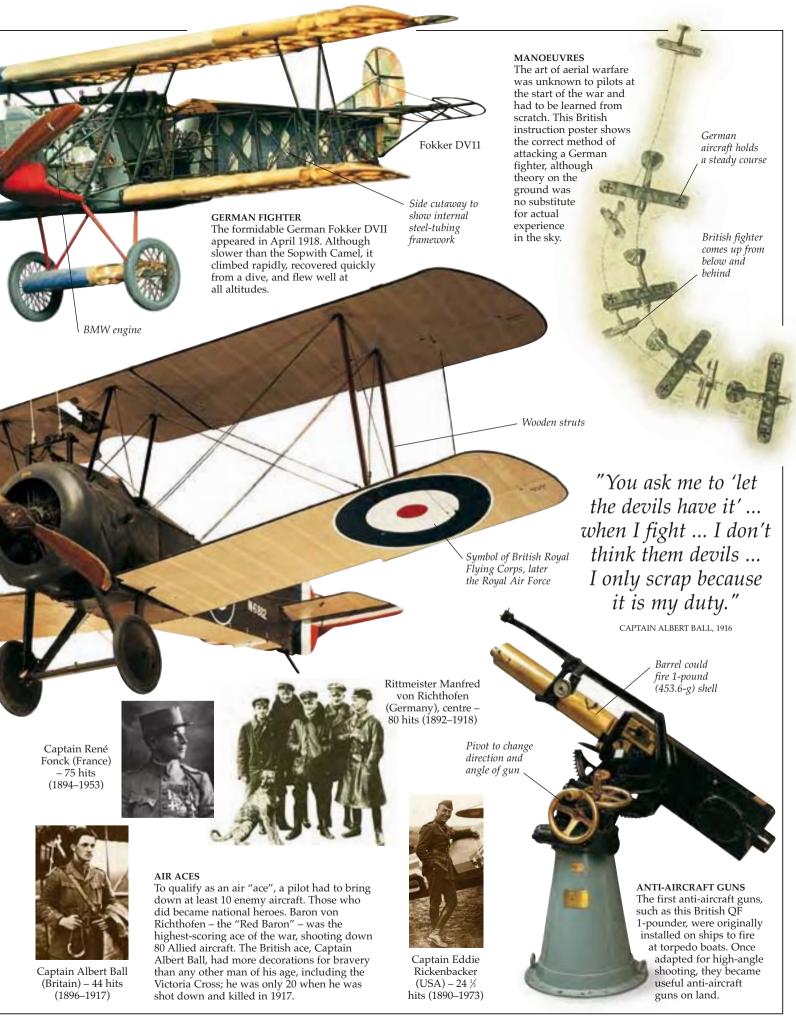
WORKING IN POVERTY

The war brought increased status and wealth to many women but this was not the case everywhere. These Italian women worked in terrible conditions in a munitions factory. Many were very young and could not even afford shoes. This was common in factories across Italy, Germany, and Russia. The women worked long, hard hours but earned barely enough to feed their families. Strikes led by women were very common as a result.

MEMENTOS FROM HOME

Women kept in contact with their absent husbands, brothers, and sons by writing letters to them at the front. They also enclosed keepsakes, such as photographs or pressed flowers, to reassure the men that all was well in their absence and to remind them of home. Such letters and mementos did much to keep up the morale of homesick and often very frightened men.





Zeppelin

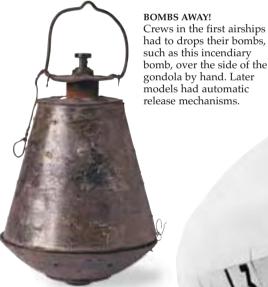
m In the spring of 1915, the first German airships appeared in Britain's night sky. The sight of these huge, slow-moving machines caused enormous panic – at any moment a hail of bombs could fall from the airship. Yet in reality, airships played little part in the war. The first airship was designed by the German Count Ferdinand von Zeppelin in 1900. Airships are often called zeppelins, but technically only those designed by him should bear the name. Early in the war, airships could fly higher than planes, so it was almost impossible to shoot them down. This made them useful for bombing raids. But soon, higher flying aircraft and the use of incendiary (fire-making) bullets brought these aerial bombers down to earth. By 1917, most German and British airships were restricted to reconnaissance work at sea.





INSIDE THE GONDOLA

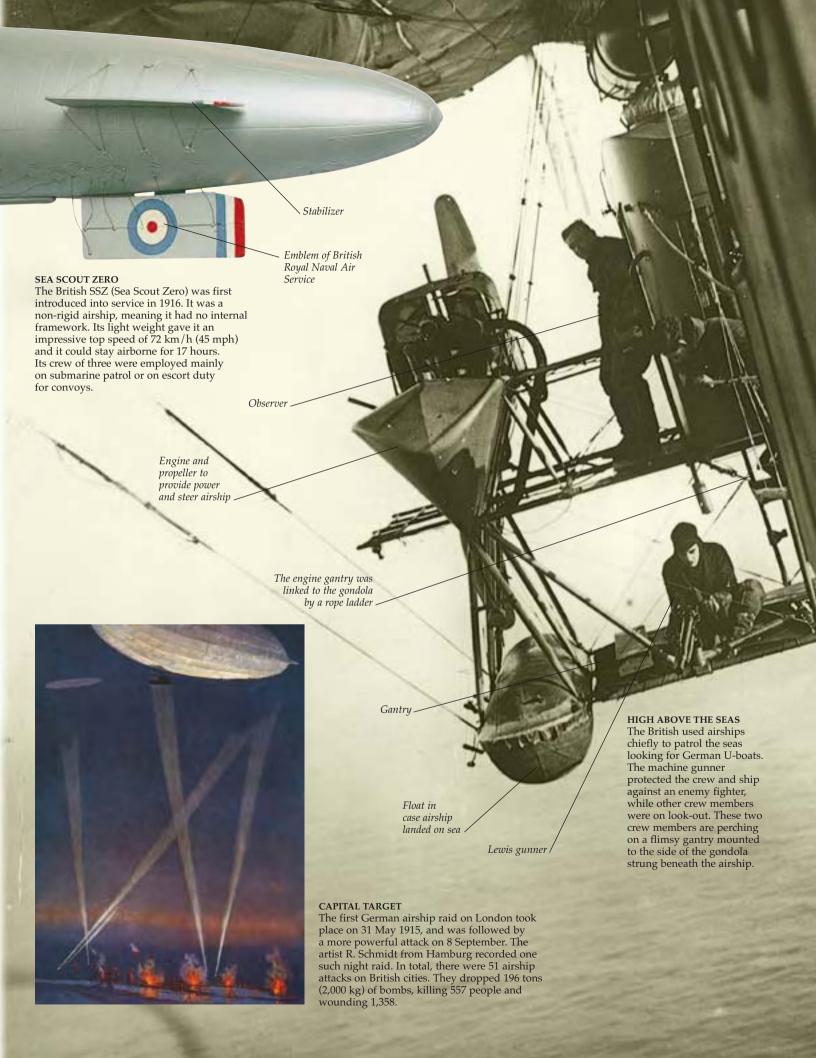
The crew operated the airship from the gondola – a spacious cabin below the main airship. The gondola had open sides, so the crew had little protection from the weather.



German incendiary bomb dropped by Zeppelin LZ38 on London, 31 May 1915

GETTING BIGGER
This L3 German airship took part in the first airship raid on Britain on the night of 19–20
January 1915, causing 20 civilian casualties.
Eyewitnesses were scared by its size, but by 1918 Germany was producing ships almost three times as big.





"I WANT YOU" When the USA entered the war in April 1917, a poster showing an attractive woman in naval uniform (above) urged volunteers to enlist.

War at sea

Since the Launch of Britain's Dreadnought battleship in 1906, Britain, Germany, and other countries had engaged in a massive naval building programme. Yet the war itself was fought largely on land and both sides avoided naval conflict. The British needed their fleet to keep the seas open for merchant ships bringing food and other supplies to Britain, as well as to prevent supplies reaching Germany. Germany needed its fleet to protect itself against possible invasion. The only major sea battle - off Danish Jutland in the North Sea in 1916 - was inconclusive. The main fight took place under the sea, as German U-boats waged a damaging

war against Allied merchant and troop ships in an effort to force Britain out of the war.

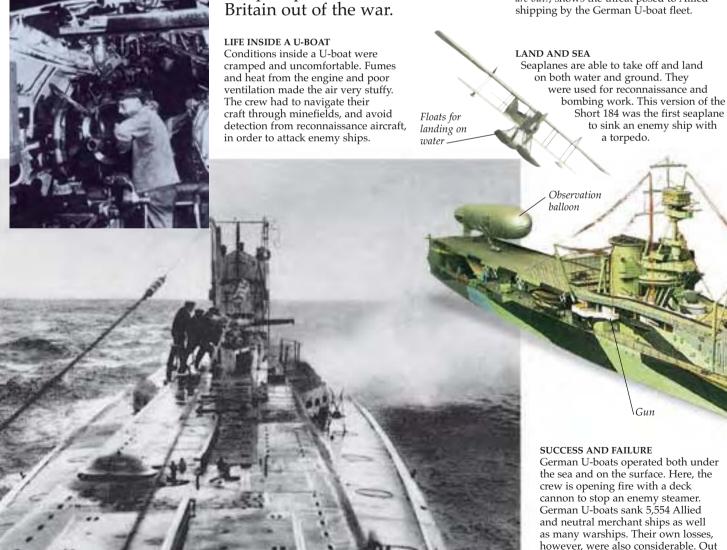


CONSTANT THREAT This German propaganda poster, The U-boats are out!, shows the threat posed to Allied shipping by the German Û-boat fleet.

Short 184 was the first seaplane

a torpedo.

to sink an enemy ship with



German U-boats sank 5,554 Allied and neutral merchant ships as well as many warships. Their own losses, however, were also considerable. Out of a total fleet of 372 German U-boats, 178 were destroyed by Allied bombs or torpedoes.

Gun



During the war, many artists contributed to their country's war effort, some in surprising ways. The modern British painter Edward Wadsworth supervised the application of "dazzle" camouflage to ships' hulls. He later painted a picture (above), Dazzle ships in dry dock at Liverpool, showing the finished result.



camouflage merchant ships with strange and garish designs. These grey, black, and blue geometric patterns distorted the silhouette of the ship and made it difficult for German U-boats to determine its course and thus aim torpedoes at it with any accuracy. More than 2,700 merchant ships and 400 convoy escorts were camouflaged in this way before the war ended.

Medals awarded to Jack Cornwall



British



Victory Medal

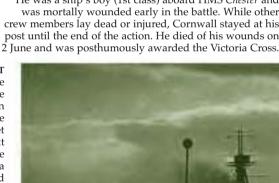
Medal

War

BOY (1ST CLASS) John Travers Cornwall was only 16 when he first saw action at the Battle of Jutland on 31 May 1916. He was a ship's boy (1st class) aboard HMS Chester and was mortally wounded early in the battle. While other crew members lay dead or injured, Cornwall stayed at his post until the end of the action. He died of his wounds on

Victoria

Cross (VC)





THE BRITISH GRAND FLEET The British Royal Navy was the biggest and most powerful in the world. It operated a policy known as the "two-power standard" - the combined might of the British fleet should be the equal of the two next strongest nations combined. Despite this superiority, the navy played a fairly minor role in the war compared with the army, keeping the seas free of German ships and escorting convoys of merchant ships to Britain.

HMS FURIOUS

Aircraft carriers first saw service during World War I. On 7 July 1918, seven Sopwith Camels took off from the deck of HMS Furious to attack the zeppelin base at Tondern in northern Germany, destroying both sheds and the two Zeppelins inside.





TASTY GREETINGS
British army biscuits were often easier to write on than to eat, as this hardbaked Christmas card from Gallipoli illustrates.

Gallipoli

In Early 1915 the Allies decided to force through the strategic, but heavily fortified, Dardanelles straits and capture the Ottoman Turkish capital of Constantinople. Naval attacks on 19 February and 18 March both failed. On 25 April, British, Australian, and New Zealand troops landed on the

Gallipoli peninsula, while French troops staged a diversion to their south. In August, there was a second landing at Suvla Bay, also on the peninsula. Although the landings were a success, the casualty rate was high and the Allies were unable to move far from the beaches due to fierce Turkish resistance. As the months wore on, the death rate mounted. The Allies eventually withdrew in January 1916, leaving the Ottoman Empire still in control of the Dardanelles and still in the war.



Jetty for boats carrying sick and wounded soldiers

THE SICK BEACH

Both sides had their food contaminated by flies carrying disease from the many corpses. Dysentery was endemic – in September 1915, 78% of the Anzac troops in the No. 1 Australian Stationary Hospital at Anzac Cove (above) were being treated for the disease.

GERMAN HELP

The Allies expected the Gallipoli peninsula to be lightly defended, but with the help of Germany, the Turks had built strong defensive positions. They dug trenches, erected barbed-wire fences, and built well-guarded artillery positions. Germany also equipped the Turks with modern pistols, rifles, and machine guns.



IMPROVISED GRENADES
The fighting at Gallipoli
was often at very close
range. Hand-thrown
grenades were particularly
effective in knocking out
enemy positions. During a
munitions shortage, Allied
troops improvised by
making grenades out
of jam tins.



GALLIPOLI PENINSULA

The Gallipoli peninsula lies to the north of the Dardanelles, a narrow waterway connecting the Aegean Sea to the Black Sea via the Sea of Marmara. Control of this waterway would have given Britain and France a direct sea route from the Mediterranean to the Black Sea and their ally, Russia. But both sides of the waterway were controlled by Germany's ally, the Ottoman Empire.

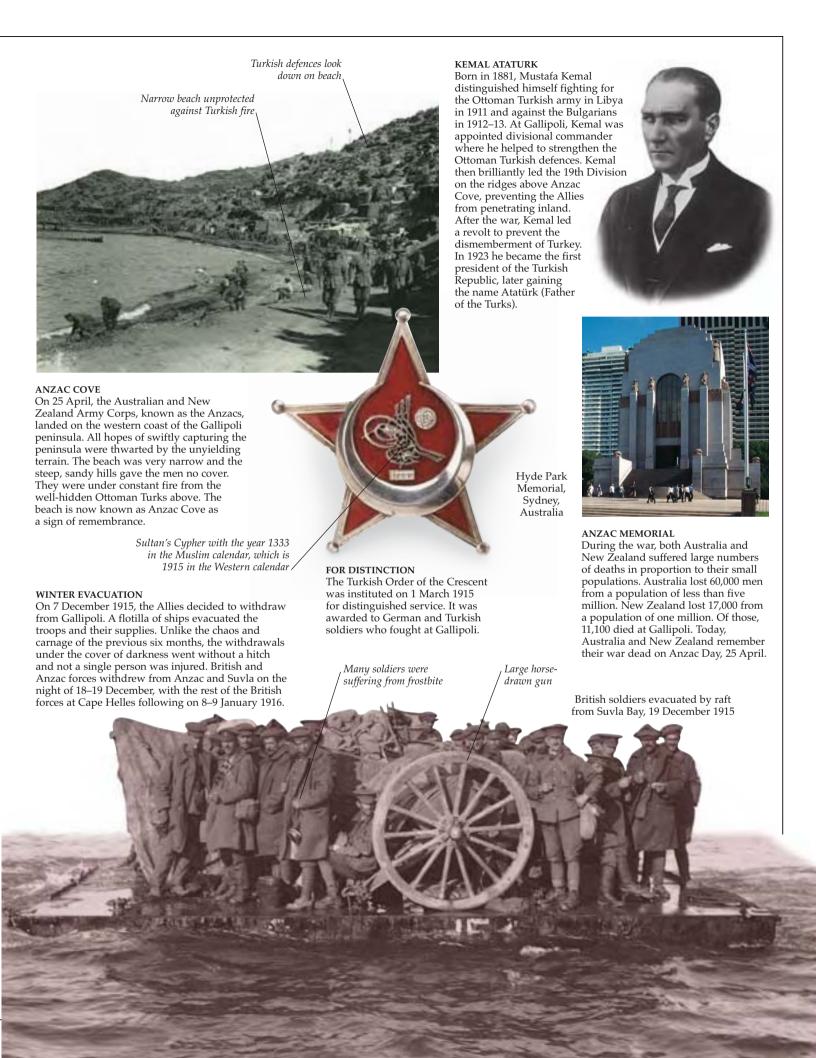
Privately purchased medical kit used by a British officer on the front line



THE CASUALTY RATE

Despite the efforts of the medical staff, some of whom even carried portable surgical kits, the treatment and evacuation of casualties from Gallipoli was complicated by the enormous numbers of soldiers who were sick, as well as those who were wounded.





Verdun



BURNING WRECKAGE

On 25 February, the ancient city of Verdun was evacuated. Many buildings were hit by the artillery bombardment, and even more destroyed by the fires that raged often for days. Firefighters did their best to control the blazes, but large numbers of houses had wooden frames and burned easily.

On 21 FEBRUARY 1916, Germany launched a massive attack against Verdun, a fortified French city. Verdun lay close to the German border and controlled access into eastern France. After a huge, eight-hour artillery bombardment, the German infantry advanced. The French were caught by surprise and lost control of some of their main forts, but during the summer their resistance stiffened. By December, the Germans had been pushed back

almost to where they started. The cost to both sides was enormous – over 400,000 French casualties and 336,831 German casualties. The German General Falkenhayn later claimed he had tried to bleed France to death. He did not succeed and, including losses at the Battle of the Somme, German casualties that year were 774,153.



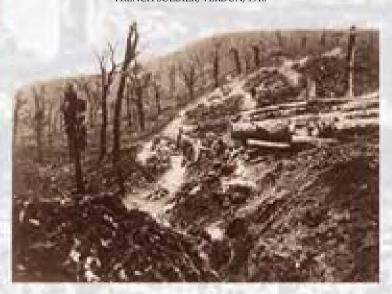


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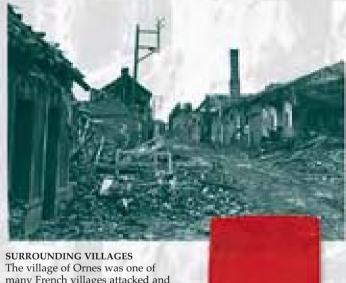
"What a bloodbath, what horrid images, what a slaughter. I just cannot find the words to express my feelings. Hell cannot be this dreadful."

ALBERT JOUBAIRE FRENCH SOLDIER, VERDUN, 1916



THE MUDDY INFERNO

The countryside around Verdun is wooded and hilly, with many streams running down to the River Meuse. Heavy rainfall and constant artillery bombardment turned this landscape into a desolate mudbath, where the bodies of the dead lay half-buried in shell craters and men were forced to eat and sleep within centimetres of their fallen comrades. This photograph shows the "Ravine de la mort", the Ravine of the Dead.



The village of Ornes was one of many French villages attacked and captured during the German advance on Verdun. The devastation was so great that this village, along with eight others, was not rebuilt after the war, but is still marked on maps as a sign of remembrance.

Laurel-leaf wreath

Oak-leaf wreath

Head of Marianne, symbol of France

LEGION D'HONNEUR

In recognition of the suffering experienced by Verdun's people,
French president Raymond
Poincaré awarded the city the *Légion d'Honneur*. The honour is usually presented to men and women, military and civilian, for bravery.

Gas attack

On the Afternoon of 22 April 1915, French-Algerian troops near the Belgian town of Ypres noticed a greenish-yellow cloud moving towards them from the German front. The cloud was chlorine gas. This was the first time poison gas had been used effectively in war. As it reached the Allied line, many soldiers panicked, for they had no protection against its choking effects. Over the next three years, both sides used gas – the Germans

released about 68,000 tonnes, the British and French 51,000 tonnes. The first gas clouds

British "Hypo" helmet T

were released from canisters and blown by the wind towards the enemy, but this caused problems if the wind changed and blew the gas in the wrong direction. More effective were gas-filled shells, which could be targeted at enemy lines. In total, 1,200,000 soldiers on both sides were gassed, of whom 91,198 died terrible deaths.

EARLY WARNING The first anti-gas masks were crude and often ineffectual, as these instructional drawings from a British training school show. Basic goggles protected the eyes, while mouth-pads made of flannel or other absorbent materials were worn over the mouth. Chemicals soaked into the pads neutralized the gas.







British

smallbox

respirator



Gas alarm

whistle

ALL-IN-ONE
By the middle of the war, both sides wore fully protective helmets, which consisted of face masks, goggles, and respirators.
These protected the eyes, nose, and throat from the potentially lethal effects of gas.

GASSED!
The full horror of being blinded
by gas is caught in Gassed, a
painting from real life by the
American artist John Singer
Sargent. Led by their sighted
colleagues, the blinded soldiers
are slowly shuffling towards a
dressing station near Arras in
northern France in August 1918.







Lachrymatory Phosgene & Diphosgene



Phosgene & Diphosgene Diphosgene & Sneezing Oil



Diphosgene



Mustard Oil

GAS SHELLS

Gas shells contained liquid gas, which evaporated on impact. Gases caused a range of injuries depending on their type. Gases such as chlorine, diphosgene, and phosgene caused severe breathing difficulties while benzyl bromide caused the eyes to water. Dichlorethylsulphide burned and blistered the skin, caused temporary blindness and, if inhaled, flooded the lungs and led to death from pneumonia.







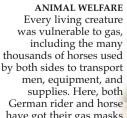
HAND SHRUNK

When exposed to some kinds of gas, a glove like the one above will shrink to the size of the glove above, right. This is what happens to a person's lungs when exposed to the same gas.

German

gas mask





German rider and horse have got their gas masks on, although the horse's eyes remain unprotected and vulnerable.







TANNENBERG, 1914
In August 1914, Russia's First and Second armies invaded East Prussia, Germany. The Russians did not disguise their messages in code, so the Germans knew what to expect. The Second Army was soon surrounded at Tannenberg and was forced to surrender on 31 August, with the loss of 150,000 men and all of its artillery (above).

The Eastern Front

When People think today of World War I, they picture the fighting in the trenches along the Western Front. But on the other side of Europe, a very different war took place, between Germany and Austria-Hungary on one side and Russia on the other. This war was much more fluid, with great armies marching backwards and forwards across many hundreds of kilometres. Both the Austro-Hungarian and Russian armies were badly led and poorly equipped, and both suffered huge losses. In 1915 alone, the Russians lost two million men, of

whom one million were taken prisoner. The German army,

ably led by General Hindenburg, was far more effective. By the end of 1916, despite some Russian successes, the Germans were in full control of the entire Eastern



MASURIAN LAKES, 1914
In September 1914, the Russian First Army had marched to the Masurian Lakes in East Prussia. It was in danger of being surrounded as the Second Army had been the previous month at Tannenberg. German troops dug trenches and other defences (above) and attacked the Russians, who soon withdrew, sustaining more than 100,000 casualties. By the end of September, the Russian threat to Germany was over.



Front. The Russians were

INITIAL SUCCESS
During 1914 the Russian army conquered
Austria-Hungary's eastern province of
Galicia, inflicting huge defeats on the
Austro-Hungarian army. But, in 1915,
German reinforcements (above) pushed the
Russians back into their own country.



UNWILLING TO FIGHT

By the end of 1916, many Russian soldiers were refusing to fight. They were badly treated, ill-equipped, poorly led, and starving. They saw little reason to risk their lives in a war they did not believe in. Officers had to threaten their troops to make them fight, and mutinies were common, although many thousands simply deserted and went home.



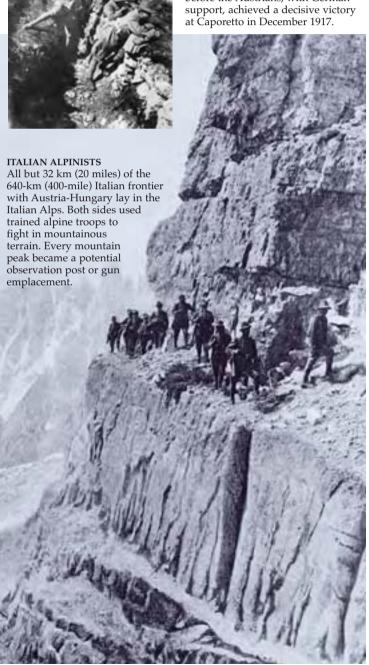
The Italian Front

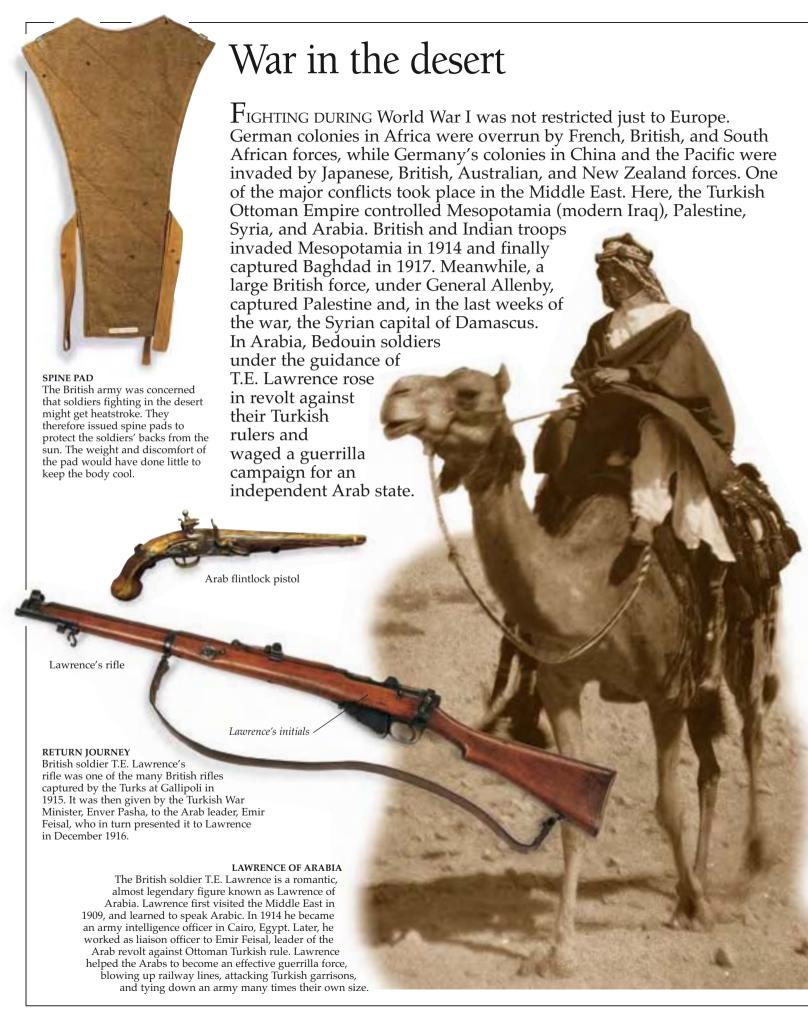
On 23 May 1915, Italy joined the war on the side of the Allies and prepared to invade its hostile neighbour, Austria-Hungary. Fighting took place on two fronts – north and east. Italy fought against the Italian-speaking Trentino region of Austria-Hungary to the north, and along the Isonzo River to the east. The Italian army was ill-prepared and under-equipped for the war, and was unable to break through the Austrian defences until its final success at the Battle of Vittorio-Veneto in October 1918.

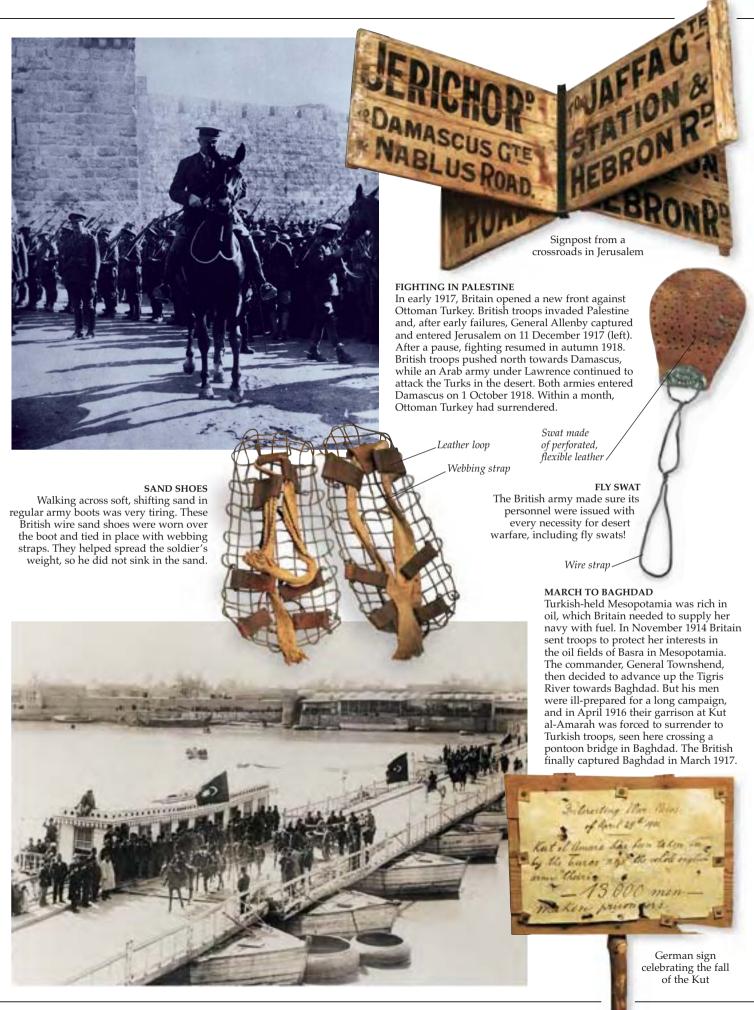


THE ISONZO

The Isonzo River formed a natural boundary between the mountains of Austria-Hungary and the plains of northern Italy. Between June 1915 and August 1917, the two sides fought 11 inconclusive battles along the river before the Austrians, with German







Espionage

 $B_{\text{OTH SIDES}}$ suspected the other of employing hundreds of spies to report on enemy intentions and capabilities. In fact, most espionage work consisted not of spying on enemy territory but of eavesdropping on enemy communications. Code-breaking or cryptography was very important as both sides sent and received coded messages by radio and telegraph. Cryptographers devised highly complex codes to ensure the safe transit of their own

messages while using their skills to intercept and break coded enemy messages. Such skills enabled British intelligence to decipher the Zimmermann telegram from Berlin to Washington sent in January 1917, leading to the entry of the USA into the war in April 1917.

Lightweight, but strong, string attaches parachute to bird



PIGEON POST

Over 500,000 pigeons were used during the war to carry messages between intelligence agents and their home bases. The pigeons were dropped by parachute into occupied areas. Agents collected the pigeons at drop zones and looked after them until they had information to send home. When released, the birds flew home to their lofts with messages attached to their legs.





Edith Cavell was born in England and worked as a governess in Belgium in the early 1890s before training in England as a nurse. In 1907 she returned to Belgium to start a nursing school in Brussels (above). When the Germans occupied the city in August 1914 she decided to stay, accommodating up to 200 British soldiers who also found themselves behind enemy lines. The Germans arrested her and tried her for "conducting soldiers to the enemy". She was found guilty and executed by firing squad in October 1915. Cavell was not a spy, but her execution did provide a powerful propaganda weapon for the Allies



IN MINIATURE

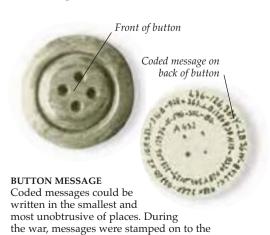
Pigeons could not carry much weight, so messages had to be written on small pieces of paper. This message, in German, is written on a standard "pigeon post" form used by the German army. Long messages could be photographed with a special camera that reduced them to the size of a microdot - that is 300 hundred times smaller than the original.



SECRET INK Invisible ink was used to conceal messages written on paper. The invisible message could be read later when the paper was treated with a chemical to make the words visible.

German invisible ink

Invisible ink bottle



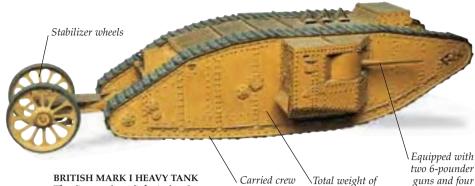
back of buttons sewn on to coats or jackets.

and sponge



Tank warfare

The British-invented tank was a major mechanical innovation of the war. British tanks first saw action in September 1916, but these early tanks were not very reliable. It was not until November 1917, at the Battle of Cambrai, that their full potential was realized. At Cambrai, the German defences were so strong that an artillery bombardment would have destroyed the ground and made it impossible for the infantry to cross. Instead, fleets of tanks flattened barbed-wire, crossed enemy trenches, and acted as shields for the advancing infantry. Tanks played a vital role in the allied advances throughout 1918.



of eight men

BRITISH MARK I HEAVY TANK The first tank to fight in battle was the British Mark 1 tank. Forty-nine were ready to fight at the Battle of the Somme on 15 September 1916, but only 18 were reliable enough to

take part in the battle itself.

PROTECT AND SURVIVE

was hit by a bullet.

Leather helmets, faceguards,

and chainmail mouthpieces were issued to British tank crews

to protect their heads. The visors

gave protection against particles of hot metal which flew off the

inside of the hull when the tank

Toughened leather

skull cap

machine guns

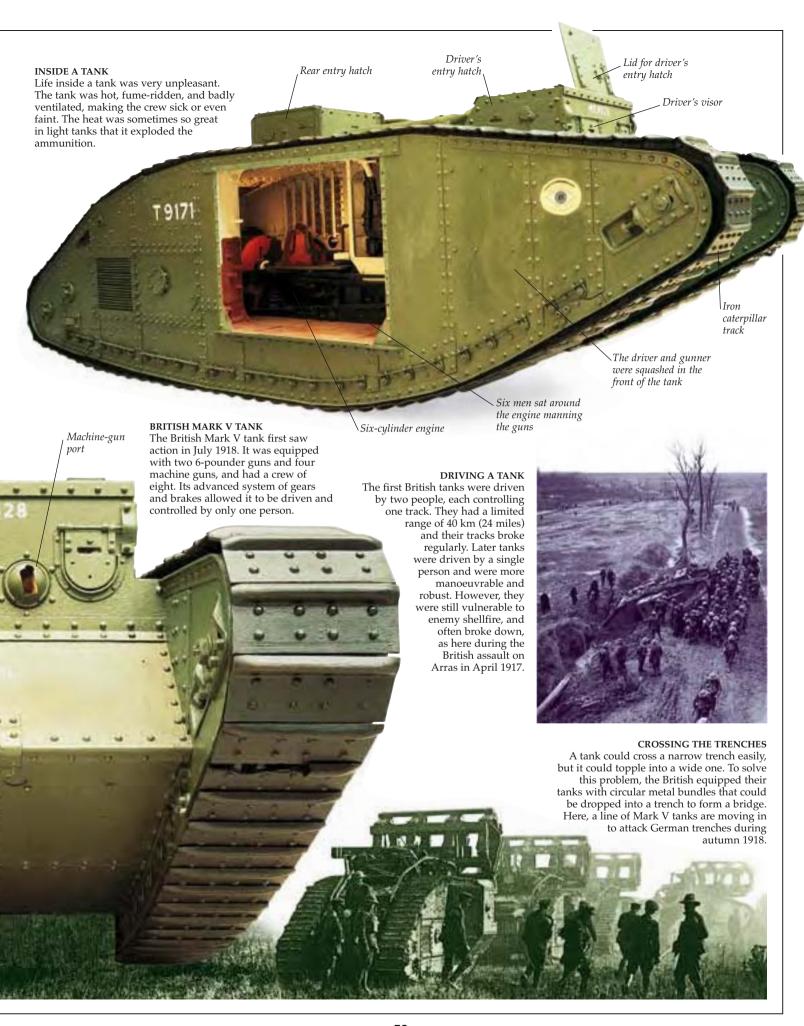
28,450 kg (28 tons)

Chainmail mouthpiece

Leather

visor

German A7V tank A7V TANK The only German tank built during the war was the huge A7V, a 33,500-kg (33-ton) machine with six machine guns and a crew of 18. British Mark V tank Only 20 A7Vs were constructed, and their appearance in spring 1918 was too late in the war to make any real impact.



The US enters the war

m WHEN WAR broke out in Europe in August 1914, the USA remained neutral. The country was deeply divided about the war, as many of its citizens had recently arrived from Europe and were strongly in favour of one side or the other. When German U-boats started to sink American ships, however, public opinion began to turn against Germany. In February 1917, Germany decided to attack all foreign shipping to try to reduce supplies to Britain. It also tried to divert US attention from The artist James Montgomery Europe by encouraging its neighbour, Mexico, to invade. This action outraged the US government, and as more US ships were sunk, President Wilson declared war on Germany. This was now a world war.

UNCLE SAM

Flagg used himself as a

a cartoon figure intended to

represent every American.

The portrait was based on

Kitchener's similar pose for

model for Uncle Sam,

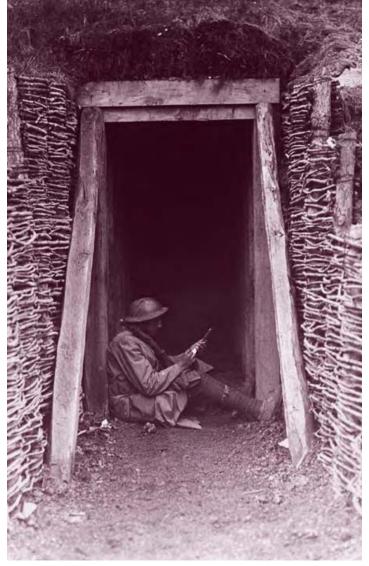


SS LUSITANIA On 7 May 1915 the passenger ship SS Lusitania was sunk off the coast of Ireland by German torpedoes because the ship was suspected of carrying munitions. The ship was bound from New York, USA, to Liverpool, England. Three-quarters of the passengers drowned, including 128 US citizens. Their death did much to turn the US public against Germany and towards the Allies.











TO THE RESCUE A gas attack or a shell burst near a mine tunnel entrance could fill the mine with fumes, suffocating the men working inside. This German breathing

apparatus was kept on

standby for use by

rescue parties.

Under enemy lines

For Much of the war on the Western Front, the two sides faced each other in rows of heavily fortified trenches. These massive defences were very difficult to overcome, so engineers found ways of undermining them. The British army recruited coal miners and "clay-kickers", who used to dig tunnels for London Underground. The Germans had their own miners. Both excavated tunnels and mines deep under enemy lines and packed them with explosives, ready to be detonated when an attack began. Counter-mines were also dug to cut into and destroy enemy mines

before they could be finished. The opposing miners sometimes met and fought in underground battles. Vast mines were exploded by the British at the Battle of the Somme on 1 July 1916, but their most effective use was under Messines Ridge at the start of the Battle of Passchendaele.



OXYGEN RELIEF
This British breathing apparatus is similar to the German equipment on the left. Compressed oxygen contained in the breathing bags was released through the air tubes to help the



"It is horrible. You often wish you were dead, there is no shelter, we are lying in water ... our clothes do not dry."

GERMAN SOLDIER, PASSCHENDAELE, 1917

WATERLOGGED

The water table around Ypres was very high, so the trenches were built above ground by banking up earth and sandbags. Even so, the trenches were constantly flooded. Pumping out mines and trenches, as these Australian tunnellers are doing at Hooge, Belgium in September 1917, was an essential, never-ending task.



Passchendaele

During 1917, the British planned a massive attack against the German front line around Ypres, Belgium. They aimed to break into Belgium and capture the channel ports, stopping the German submarines from using them as a base to attack British shipping. The Battle of Messines began on 7 June 1917. After a huge artillery bombardment, 19 mines packed with 1 million tons of explosive blew up simultaneously under the German lines on Messines Ridge. The noise could be heard in London 220 km (140 miles) away. The ridge was soon captured, but the British failed to take quick advantage. Heavy rainfall in August and October turned the battlefield into a muddy marshland. The village and ridge of Passchendaele were eventually captured on 10 November 1917, only to be lost again the following March. In summer 1918, the Allies re-captured and kept the ground.



MUDDY QUAGMIRE

Heavy rainfall and constant shelling at Passchendaele created a deadly mudbath. Many injured men died as they were unable to lift themselves clear of the cloying mud. Stretcher bearers were barely able to carry the wounded to dressing stations. The British poet Siegfried Sassoon wrote that "I died in hell – (They called it Passchendaele)".



The final year IN EARLY 1918, the war looked to be turning in favour of Germany and her allies. Russia

In 1917, Vladimir Lenin, the leader of the Bolshevik (Communist) Party, became the new ruler of Russia. He was opposed to the war, and ordered an immediate cease-fire when he came to power.



German and Russian troops celebrating the cease-fire on the Eastern Front, 1917

Russia pulls out

The Russian government became increasingly unpopular as the war progressed. The army was demoralized by constant defeats, and by early 1917, there was large-scale fraternization with German troops along the Eastern Front. In February 1917, a revolution overthrew the Tsar, but the new government continued the war. A second revolution in October brought the Bolshevik Party to power. A cease-fire was agreed with Germany, and in March 1918 Russia signed the Treaty of Brest-Litovsk and

THE LUDENDORFF OFFENSIVE On 21 March 1918 General Ludendorff launched a huge attack on the Western Front. He hoped to defeat Britain and France before US reinforcements could arrive. The attack took the Allies by surprise and Germany advanced by almost 64 km (40 miles) by July, but at the heavy cost of 500,000 casualties.

withdrew from the war.

offensive on the Western Front 15 July Last German offensive launched on Western Front 18 July French counter-attack 21 March Vast German Ludendorff begins on the Marne

8 August British launch offensive near Amiens 12 September Americans launch offensive at St Mihiel 14 September Allies attack

Bulgarians at Salonika 25 September Bulgaria seeks peace 27 September British begin to breach Hindenburg Line

had withdrawn from the war, enabling Germany to concentrate her efforts on the Western Front, and US troops had vet to arrive in France in any great numbers. A vast offensive in March brought German troops to within 64 km (40 miles) of Paris. But behind the lines, Germany was far from strong. The Allied blockade of German ports meant that the country was short of vital supplies. The railway network was collapsing through lack of maintenance and food was short. Strikes and even mutinies became common. Elsewhere, Ottoman Turkey and Bulgaria collapsed in the face of Allied attacks, while the Italians scored a decisive victory against Austria-Hungary. By early November,

Germany stood alone. On 7 November, a German delegation crossed the front

line to discuss peace terms with the

Allies. The war was almost over.



8 January US President Wilson issues 14 Points for Peace 3 March Treaty of Brest-Litovsk Russia leaves the war

58



BATTLE OF THE MARNE

On 18 July 1918, French and US forces, led by General Foch, counter-attacked against the German advance on the River Marne, east of Paris. They stopped the German offensive in its tracks and began to push the Germans back eastwards. By 6 August, the Germans had lost 168,000 men, many buried where they fell on the battlefields (left). The tide of battle had at last turned decisively in favour of the Allied armies.

French soldiers identifying German dead before burial

CROSSING THE LINE

On 8 August 1918 a massive British offensive began near Amiens. The German army was increasingly short of men and vital supplies, including food, so gave little resistance. The Allied troops continued to push forwards towards the heavily fortified Hindenburg Line. On 29 September, the British 46th North Midland Division captured the bridge at Riqueval, over the St Quentin Canal. They posed for a celebratory photograph, because they had broken the Line at last.





Background picture: German troops advancing at the Somme, April 1918

French children march alongside the Allied army

THE LAST DAYS

By 5 October, the Allied armies had breached the entire Hindenburg Line and were crossing open country. Both sides suffered great casualties as the German army was pushed steadily eastwards. The British and French recaptured towns and cities lost in 1914, including Lille (left), and by early November 1918 they recaptured Mons, where they had fired the first shots of the war in August 1914. By now, the German retreat was turning into a rout.

- 28 September German commander Ludendorff advises the Kaiser to seek peace as army crumbles 1 October British capture Ottoman Turkish-held Damascus
- 6 October German government starts to negotiate an armistice 21 October Czechoslovakia declares its independence 24 October Italian army begins
- decisive battle of Vittorio-Veneto against Austria-Hungary 29 October German fleet mutinies 30 October Ottoman Turkey agrees an armistice
- **4 November** Austria-Hungary agrees an armistice
- **9 November** The Kaiser abdicates **11 November** Armistice between Germany and the Allies; war ends

CARRIAGE TALKS

On 7 November 1918, a German delegation headed by a government minister, Matthias Erzberger, crossed the front line to meet the Allied commander-in-chief, Marshal Foch, in his railway carriage in the forest of Compiègne. At 5 a.m. on 11 November, the two sides signed an armistice agreement to come into effect six hours later.

The New york Cimes.

ARMISTICE SIGNED, END OF THE WAR!

OUSTED KAISER FLEES TO HOLL

BERLIN SEIZED BY REVOLUTIONISTS;

NEW CHANCELLOR BEGS FOR ORDER;

Armistice and peace

 ${
m A}$ T 11 AM ON THE 11th day of the 11th month of 1918, the guns of Europe fell silent after more than four years of war. The problems of war were now replaced by the equally pressing problems of peace. Germany had asked for an armistice (cease-fire) in order to discuss a possible peace treaty. She had not surrendered but her soldiers were surrendering in hordes and her navy had mutinied. The Allies wanted to make sure that Germany would never go to war again. The eventual peace treaty re-drew the map of Europe and forced Germany to pay massive damages to the Allies. German armed forces were reduced in size and strength and Germany lost a great deal of land and all of her overseas colonies.



DISPLACED PEOPLE

Many refugees, like these Lithuanians, were displaced during the war. The end of hostilities allowed thousands of refugees - mainly French, Belgians, Italians, and Serbians whose lands had been occupied by the Central Powers – to return home to their newly liberated countries. In addition, there were as many as 6.5 million prisoners of war who needed to be repatriated. This complex task was finally achieved by autumn 1919.

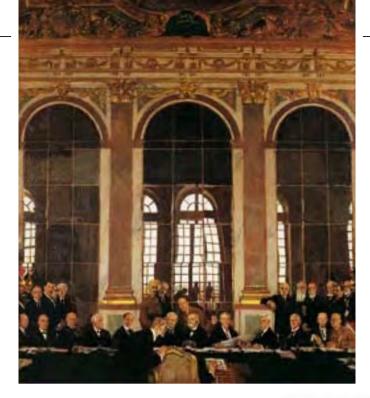


in newspapers and typed out in telegrams, while word-of-mouth spread the joyous news to each and every member of the local neighbourhood.

VIVE LA PAIX!

In Paris (below), French, British, and American soldiers joined Parisians in an impromptu procession through the city. In London, women and children danced in the streets while their men prepared to return from the front. In Germany, the news was greeted with a mixture of shock and relief that the fighting was at last over.







SIGNING THE TREATY

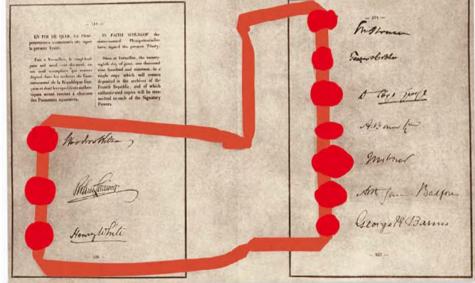
These soldiers watching the signing of the Treaty of Versailles had waited a long time for this moment. The Allies first met their German counterparts in January 1919. The Americans wanted a fair and just treaty that guaranteed democracy and freedom to all people, while both France and to a lesser extent Britain wanted to keep Germany weak and divided. Negotiations almost broke down several times before a final agreement was reached in June 1919.

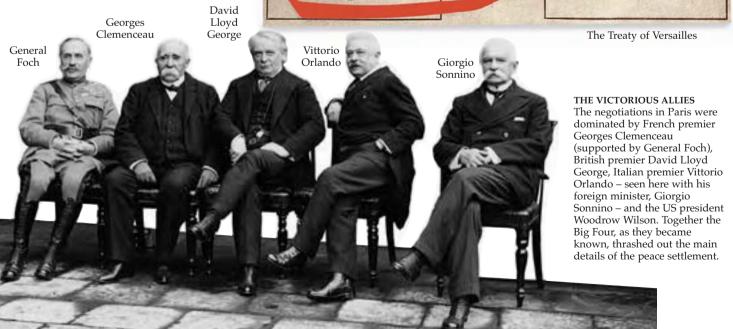
THE TREATY OF VERSAILLES

The peace treaty that ended the war was signed in the Hall of Mirrors in the Palace of Versailles near Paris, on 28 June 1919. Sir William Orpen's painting shows the four Allied leaders watching the German delegates sign the treaty ending German imperial power in Europe, just 48 years after the German Empire had been proclaimed in the same hall.

THE PEACE TREATIES

The Treaty of Versailles was signed by representatives of the Allied powers and Germany. The Allies signed subsequent treaties elsewhere in Paris with Austria in September 1919, Bulgaria in November 1919, Turkey in April 1920, and Hungary in June 1920. By then, a new map of Europe had emerged.







AFTERCARE

A soldier stands on Pilckem Ridge during the Battle of Passchendaele in August 1917. The crudely made cross indicates a hastily dug grave, but many soldiers were engulfed by the mud and their graves remained unmarked.

The cost of the war

 T HE COST OF THE First World War in human lives is unimaginable. More than 65 million men fought, of whom more than half were killed or injured - 8 million killed, 2 million died of illness and disease, 21.2 million wounded, and 7.8 million taken prisoner or missing. In addition, about 6.6 million civilians perished. Among the combatant nations, with the exception of the USA, there was barely a family that had not lost at least one son or brother; some had lost every male member. Entire towns and villages were wiped off the map, and fertile farmland

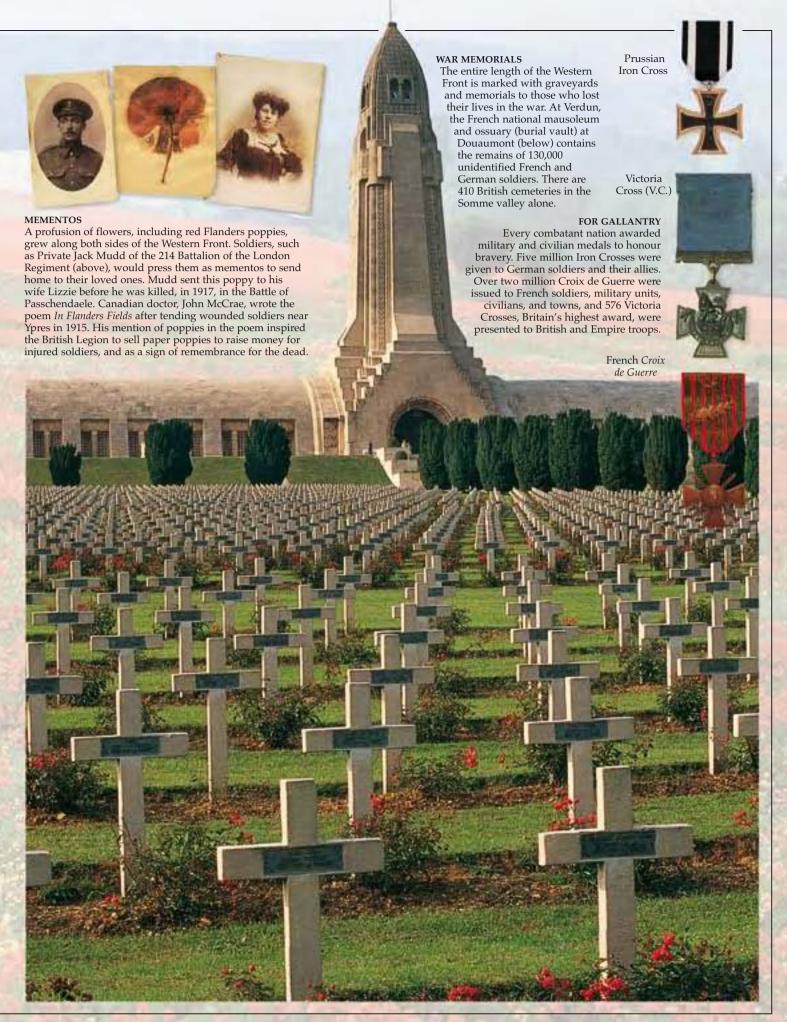
was turned into deadly bogland. Financially, the economies of Europe were ruined, while the USA emerged as a major world power. Not surprisingly, at the end of 1918, people hoped they would never again have to

experience the slaughter and destruction they had lived through for the past four years.

THE UNKNOWN SOLDIER

Many of the dead were so badly disfigured that it was impossible to identify them. Plain crosses mark their graves. Thousands more just disappeared, presumed dead. Both France and Britain ceremoniously buried one unknown warrior – at the Arc de Triomphe, Paris, and Westminster Abbey, London.





Did you know?

BITE-SIZED FACTS

On the morning of 1 July 1916 the Allies began their offensive on the Somme. The preceding artillery barrage lasted a week. Some people on the south coast of England actually heard two of the mines explode.

Every British soldier was given army-issue boots in time to wear them in. From the Somme onwards, each soldier also had his own steel helmet. Specialist items, such as rubber waders, were kept as communal stores – handed from one unit to another.



British Army clothing, left to right: a warm coat for transport drivers; a flameproof suit for flame thrower operators; winter camouflage for trench raiding; and flying clothing

Flame throwers were first used by the Germans. They fired jets of flame as far as 40 m (131 ft).

The nation with the largest army was Russia. It mobilized 12 million troops. Over three-quarters were killed, wounded, or went missing in action.

At first British tanks were split into "males" and "females".
Male tanks had cannons, while females had heavy machine guns.

The first prototype tank, "Little Willie", was built in 1915. It carried a crew of three and had a top speed of 4.8 km/h (3 mph).

Tunnellers laid mines on the Western Front. Sometimes underground fights broke out, if they dug into an enemy tunnel by mistake.



Map of Europe in 1914 by Walter Trier

Food was prepared in field kitchens that could be several kilometres behind the front line. It was impossible to take transport into the trench, so food was carried to the front on foot.

Filling a Thermos container that kept the food hot Prague-born Walter Trier (1890–1951) produced political cartoons. One famous work shows Europe in 1914 on the eve of World War I, with the national leaders squabbling and threatening each other.

The Pool of Peace is a 12-m (40-ft) deep lake near Messines, Belgium. It fills a crater made in 1917 when the British detonated a mine containing 41,325 kg (40 tons) of explosives.

Some soldiers wore knitted helmets called balaclavas to stay warm in winter. Balaclavas are named after the battle where they were first worn – the Battle of Balaclava, which took place during the Crimean War (1854).



A German messenger dog laying telegraph wire

Messenger dogs carried orders to the front line in capsules strapped to their bodies. Dogs also helped military communications in another way – some of them were trained to lay down telegraph wire!

QUESTIONS AND ANSWERS



Modern-day camouflage

Who was "Big Bertha"?

A Big Bertha was a 43,700-kg (43-ton) howitzer used by the Germans in World War I. Its designer, Gustav Krupp, named the weapon after his wife. Big Bertha was more mobile than the previous 420-mm (16.5-in) howitzer; it could be transported to its firing position by tractor. Even so, it took its crew of 200 men six hours or more to assemble it. Big Bertha was a formidable weapon. It could fire a 1,000-kg (2,200-lb) shell a distance of 15 km (9.3 miles). Big Bertha's first successes were at Liege in Belgium. The 12 forts ringing the city were destroyed in three days.

Why did soldiers keep animals?

A Most animals that travelled with the army had a job to do. Mules, horses, and camels were kept as draft or pack animals to transport heavy supplies.



Soldiers with their rabbits and chickens

Messenger dogs and pigeons carried important communications. Away from the front line, some soldiers kept animals for food – rabbits for the cooking pot or hens for their eggs. Some animals were kept simply to keep up morale. Dogs, for example, were popular, but one group of South African soldiers had an impala as their lucky mascot!

How did soldiers camouflage themselves?

World War I was the first major conflict in which soldiers made use of camouflage. They wore khaki uniforms that blended in with the background. Some snipers made camouflaged suits out of painted sacking. Steel helmets were often painted with matt paint mixed with sand or sawdust so that they would not reflect the light; other times they were smeared with mud or covered with sacking from sandbags. Soldiers also used sacking or netting to hide their equipment from the reconnaissance aircraft patrolling the skies, but blending in was not the only camouflage possibility. The disruptive patterns painted on to battleships also worked – just as a zebra's stripes can confuse a lion.

How did soldiers know when to put on their gas masks?

There were soldiers on lookout duty night and day. These sentries used whatever they could find to raise the alarm – bells, rattles, whistles, or just their own voice. When the soldiers heard the alarm they put on their gas masks as quickly as they could – hopefully before the deadly gas drifted towards the trench.

Metal bell sounds the alarm /

A sentry on duty

Why were tanks called tanks?

While it was being developed, the tank was known as a "landship". However, there were fears that this name was too obvious. Before long, a German spy might become curious about why so many of these objects were being produced, and the Germans might catch on to the new invention. The British had to come up with a believable name. They decided that, with its rectangular bodyshape, perhaps it could be passed off as a water storage tank. At first, they chose the name "water carrier" - until someone noticed that this would be abbreviated to "WC". In the end they decided on "tank" instead.

Sentry wears

mask to protect from gas attack



Key people and places

So many people played an important role in planning or fighting World War I. It is impossible to cover them all, but here are a few of them, together with a checklist of some of the key battle sites.

IMPORTANT PERSONALITIES

Russian General Brusilov

ALEXEI BRUSILOV (1853–1926)

With his "Brusilov offensive" of 1916, General Brusilov broke Austro-Hungarian lines. He took command of Russian armies on the Eastern Front in 1917.

Luigi Cadorna (1850–1928)

The general in charge of the Italian army was Luigi Cadorna. His only success was the recapture of Gorizia in 1916.

FERDINAND FOCH (1851–1929)

Artillery specialist Ferdinand Foch successfully led the French at the Marne. By 1918 he was co-ordinating all the Allied forces on the Western Front.

ANTHONY FOKKER (1890–1939)

Dutch designer Anthony Fokker developed the first fighter plane with a forward-facing synchronized machine gun. His Fokker Eindecker gave Germany the edge in the early part of the war. Fokker produced 40 different aircrafts during the war. RENÉ FONCK (1894–1953)

Frenchman René Fonck was the Allies' most successful fighter pilot. He shot down 75 enemy planes.

Douglas Haig (1861-1928)

The general in charge of British troops on the Western Front was Sir Douglas Haig. He ordered the offensives at the Somme and Passchendaele, as well as the final, successful Allied offensive.

PAUL VON HINDENBURG (1847–1934)

Early in the war, Paul von Hindenburg successfully led the Germans against the Russians. By 1916, he commanded all German land forces. His Hindenburg Line, created in 1917, withstood attack till 1918.

JOSEPH JOFFRE (1852-1931)

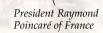
When the war broke out, Joseph Joffre became Commander of the French army. He planned attacks on the Western Front but, after heavy losses, was replaced in 1916.

T.E. LAWRENCE (1888–1935)

Known as Lawrence of Arabia, T.E. Lawrence worked for Allied intelligence in the Middle East. He led

an Arab revolt against the Turks, which he wrote about in his book *The Seven Pillars* of Wisdom.

Propeller rotation was synchronized with gunfire



General Ioseph Joffre

> General Sir Douglas Haig

General

Foch

Ferdinand

RITTMEISTER VON RICHTHOFEN (1892–1918)

Known as the Red Baron, this German aviator shot down 80 planes – more than any other World War I pilot. He died after being shot down near Amiens.

George V

of Britain

MAXIMILIAN VON SPEE (1861–1914)
German admiral Maximilian von Spee sank
two British cruisers off Chile. He died
when his own ship, the Scharnhorst, went
down near the Falkland Islands.

GABRIEL VOISIN (1880–1973)

French-born Gabriel Voisin was an aircraft designer. He is famous for his Voisin III (the first Allied plane to shoot down an enemy) and his Voisin V bomber, which was armed with a cannon.

MARGARETHA ZELLE (1876–1917) Dutch-born Margaretha Zelle was better known as Mata Hari. She always denied

being a double agent, but it is possible that she spied for both the French and Germans. The French executed her in 1917.



Aircraft designer Gabriel Voisin (right)

Anthony Fokker with his Fokker D1 aircraft



MAJOR BATTLES



Tanks pass through Meaulte, France, during the Amiens offensive

AMIENS

In August 1918, General Rawlinson led his successful Allied offensive to recapture the Amiens Line. On the first day, the Allies advanced 12 km (7.5 miles).

CAMBRAI

General Haig took the Germans by surprise in November 1917 when he attacked them at Cambrai, France. At first, the Allies gained good ground, but within a fortnight the Germans had regained their position. The estimated casualties were 45,000 British soldiers and 50,000 Germans.

GAZA

General Dobell led a British attack on Turkish-held Gaza in March 1917. The port was a strategic target, on the way to Palestine. The British took the Turks by surprise, but were soon forced to retreat. They eventually captured Gaza in November, after weakening its defences with bombardment from offshore ships.



A British dressing station at Cambrai

HELIGOLAND BIGHT

In August 1914, two British light cruisers and 25 destroyers attacked German ships near the naval base on Heligoland in the North Sea. In the battle that followed, the British sank three cruisers and a destroyer.

JUTLAND

May 1916 saw the war's only major sea battle, off the Danish coast of Jutland. Both sides claimed victory. The Germans inflicted the heaviest losses, but the British had maintained control of the North Sea.



The Retreat from Mons (1927) by Lady Elizabeth Butler

Mons

The British Expeditionary Force met the advancing German army at Mons, France, in August 1914. Although the Germans suffered heavy losses, they managed to force back the British to the River Marne.

PASSCHENDAELE

The Battle of Passchendaele, Belgium, began in July 1917. First, the Allies spent 10 days bombarding the Germans. Then they advanced, but were slowed down by torrential rains. The Allies finally took the ridge of Passchendaele in November.

SOMME

July 1916 saw the start of the Battle of the Somme, France. On the first day, the British suffered 58,000 casualties. Despite this, the Allies continued their offensive until November. When it was finally called off, the Allies had suffered 620,000 casualties and the Germans an estimated 500,000 casualties.

VERDUN

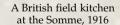
The Germans attacked the French garrison town of Verdun in February 1916. Initially they outnumbered the French five to one, but their advance halted within a week. The battle ran on for 10 months and nearly a million men lost their lives.

VITTORIO-VENETO

One of the last offensives of the war was when the Italians recaptured Vittorio-Veneto on 29 October 1918. The Austro-Hungarian forces had retreated the day before.

YPRES

The Belgian town of Ypres was taken by the Germans in August 1914, but the British recaptured it in October. During the failed German counterattack, the British forces were decimated. A second battle of Ypres took place in April and May 1915 and a third, Passchendaele, in 1917.





Рорру sumbolizes remembrance REMEMBRANCE DAY

Everyone can play a part in commemorating the sacrifices of soldiers and civilians during World War I. Each year, on the Sunday nearest to 1 November, services are held at local and national war memorials.

> THE TANK MUSEUM Fans of tracked vehicles should head to Bovington, Dorset, to see the world's largest tank collection. A key attraction is the first tank prototype, Little Willie. The museum also has a programme of

Find out more

 ${
m T}$ HERE ARE MANY WAYS you can find out more about World War I. Ask older generations of your family if they remember stories about relatives who fought in the war. There are personal accounts online, too, plus lots of other information. Try your library for specialist books on the topic and visit war museums. As well as vast collections of fascinating objects, these often have interactive displays. Television documentaries also bring the war to life with real or reconstructed footage. Finally, remember there is a wealth of old war films, that will give you a feel for what life was like.



ARC DE TRIOMPHE

Originally built by Napoleon to celebrate the victories of his armies, the Arc de Triomphe in Paris, France, now keeps the memory of the millions of soldiers killed in World War I. Its flame of remembrance is rekindled each day and, in November 1920, the body of an unknown soldier was buried under the monument. He is there to symbolize the soldiers who died in the war.



ANZAC DAY

If you are in Australia or New Zealand on 25 April, you will be able to take part in Anzac Day. There are parades and ceremonies to mark the lives of the thousands of Australian and New Zealand soldiers who died at Gallipoli, Turkey, in 1915.



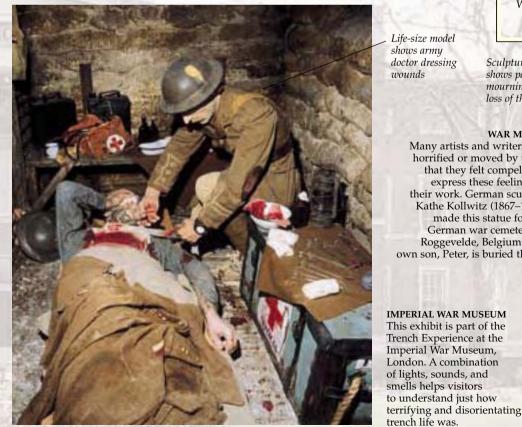


WAR FILMS

A great many movies have been made about the events of World War I. They may not always be based on solid facts, but they are an entertaining way to get a flavour of the time and events. One of the best is Lawrence of Arabia (1962). Directed by David Lean, it starred Peter O'Toole (shown above) in the title role.

USEFUL WEBSITES

- · Easy-to-navigate site on all aspects of the war www.spartacus.schoolnet.co.uk/FWW.htm
- A multimedia site about World War I www.firstworldwar.com
- First-person accounts, sound files, movies, and animations, plus a curriculum-related kids' area www.bbc.co.uk/history/war/wwone/index.shtml
- Online collection of 100 paintings to mark the war www.art-ww1.com/gb/visite.html



Life-size model shows army doctor dressing wounds

Places to visit

AUSTRALIAN WAR MEMORIAL, CANBERRA, AUSTRALIA

- · Gallipoli gallery with life-size reconstructions and diorama
- Western Front exhibition depicting trench warfare, including video footage
- "Lone Pine Tree" grown from a seed sent from Gallipoli by a soldier to his mother

HISTORIAL DE LA GRANDE GUERRE, PERONNE, FRANCE

- Thousands of wartime artefacts, with themes including children and prisoners
- Collection of war paintings by German artist Otto Dix
- Offers a 60-km (37-mile) "Circuit of Remembrance" – a tour of key battle sites in northern France

IMPERIAL WAR MUSEUM, LONDON, UK

- World War I tank, plus a dedicated gallery with firearms, uniforms, posters, medals, and other memorabilia in themed areas
- Walk-through "Trench Experience" with sights, sounds, and smells that bring the Battle of the Somme to life
- · Access to its collections online at www.iwmcollections.org.uk

THE ROYAL CORPS OF SIGNALS MUSEUM, BLANDFORD, DORSET, UK

- Special area devoted to new technologies of World War I, including the development of the military telephone and wireless
- · Exhibits on the use of animals in war

THE TANK MUSEUM, BOVINGTON, UK

- Almost 300 tanks from over 26 countries
- Exhibits cover the history of tanks from World War I to the present day





Glossary



Nurses wheel convalescent soldiers around the hospital grounds

ABDICATE Give up office or power.

ALLIANCE A group of allies, who have agreed to act in co-operation. Allied countries often set out their shared aims in an official treaty.

ALTITUDE Height above sea level.

AMMUNITION Bullets and shells fired from weapons.

AMPUTATION Surgical removal of a body part, such as an arm or leg.

ANZAC Member of the Australian and New Zealand Army Corps.

ARMISTICE End of hostilities. Armistice Day, now known as Remembrance Sunday, is commemorated each year on the Sunday closest to 11 November.

ARMS RACE Competition between nations to build up weaponry, or armaments.

ARTILLERY Armed forces that use heavy weapons, such as cannons.

ASSASSINATION The murder of someone for political purposes.

BATTERY The place where a cannon, or other form of artillery, is positioned.

BAYONET A blade fixed to a rifle or other firearm. The bayonet can be used to stab the enemy when fighting at close quarters.

BULLY BEEF Another name for corned beef.

BUNKER An underground bomb shelter.

BUTTON STICK Metal slide used to protect a soldier's uniform from polish when shining their buttons.

CAMOUFLAGE Colouring designed to blend in with the background. During World War I, this was mostly limited to attempts to conceal gun positions, although some soldiers blackened their faces before night patrols and snipers wore camouflaged suits.

CAVALRY Originally, soldiers on horseback, but the term came to mean soldiers using motorized transport, such as tanks.

CLIP A means of carrying and rapidly loading rifle ammunition.

COLONY A dependency, or place, that is ruled by a foreign nation.

CONSCIENTIOUS OBJECTOR Someone who refuses to fight for moral reasons.

CONSCRIPT Someone who is forced by law to fight in the army.

CONSCRIPTION
Making people
fight in the army.

Small box respirator gas mask

CONVALESCENT Someone who has been seriously injured or ill and is slowly recovering.

CONVOY Merchant ships travelling together, protected by a naval escort.

CREEPING BARRAGE A line of artillery fire creeping ahead of an infantry advance.

CRYPTOGRAPHY The study and creation of secret codes.

DETONATE To explode or cause to explode.

DYSENTERY An infection of the intestines that causes diarrhoea and bloody faeces.

EMPLACEMENT A mound or platform from which guns are fired.

ENDEMIC Found in a particular area, or among a certain group of people.

ENLIST Call or sign up to the armed forces.

ENTENTE A friendly agreement or informal alliance between nations.



An intelligence officer inspects aerial photographs of enemy trenches

EVACUATION Moving people away from a place where they are in danger.

FLOTILLA A fleet or group of small ships.

FRONT LINE The border between enemy territories, where the fighting is.

FUSELAGE The body of an aeroplane.

GAS In the context of war, "gas" means a poisonous gas, such as chlorine, used as a weapon to choke, blind, or kill the enemy.

GRENADE A small bomb that is hurled by hand.

GUERRILLA A soldier in a guerrilla army - a small-scale outfit that practises sabotage and hit-and-run attacks. Guerrilla comes from the Spanish for "small war".



An American propaganda poster

HOWITZER A short gun that fired high.

INCENDIARY Describes a bomb, bullet, or other device designed to cause fire.

INFANTRY Foot soldiers.

INTELLIGENCE Useful military or political information, or the spies that gather it.

INTERROGATE Question someone aggressively. KNOT A unit for measuring a ship's speed. One knot equals 1.85 km/h (1.15 mph).

MACHINE GUN An automatic gun that fires bullets in rapid succession.

MEDICAL ORDERLY A soldier with some medical training, who works in an army medical establishment.

MESS TIN A soldier's cooking pot.

MINE A large underground chamber packed with explosives, placed under enemy lines by tunnellers.

MOBILIZATION Preparation of troops for active service.

MORALE Strength of purpose, confidence, or faith.

MORSE CODE A code where each letter of the alphabet is represented by a sequence of dots and dashes, or by long or short signals of light or sound. It is named after its inventor, Samuel Morse (1791–1872).

MUNITIONS Stores of weapons and other military equipment.

NEUTRALITY The state of not taking sides.

NO-MAN'S-LAND An area of land between two opposing forces, that has not been captured by either side.

NON-COMBATANT Someone connected with the army but not there to fight, for example a chaplain or army doctor.

PERISCOPE A
device that uses
mirrors to allow the
user to see things
that are not in his
or her direct line
of sight.

PICQUET A metal stake used to tether an entanglement – that is, a tangle of barbed wire used to fortify the front-row trenches.

POSTHUMOUSLY After death.

PROPAGANDA Information intended to convince people of a particular viewpoint. It may take the form of posters, broadcasts, or air-dropped leaflets, for example.

PUTTEE A strip of cloth wound around the lower part of the leg.

RECONNAISSANCE Taking a preliminary look at an area before sending in troops, usually in order to locate the enemy.

RECONNOITRE

To survey an area in preparation for a military advance.

German stereoscopic periscope

RECRUIT Someone who is enlisted into the army.

REGULAR FORCES Soldiers who already belong to the army, rather than conscripts.

RESERVE FORCES People who are not part of the regular army but have received some military training, and are ready to be the first extra troops mobilized in an emergency.

RESPIRATOR A device worn over the face to prevent the wearer from breathing in poison gas.

RIFLE A long-barrelled gun, fired from shoulder level.

SEAPLANE An aircraft equipped with floats or skis so that it can land on or take off from water.

SHELL An explosive device that is fired, for example from a cannon.

SHELLSHOCK Mental strain or illness suffered by a soldier who has fought in a war.

SHRAPNEL A type of antipersonnel projectile that contained small shot or spherical bullets, usually of lead, along with an explosive charge to scatter the shot.

TELEGRAPH A communications device that transmits messages by means of electrical signals along a wire.

TERRORIST Someone who commits violent acts to bring about or draw attention to their political aims.

TORPEDO A self-propelled underwater missile that can be fired from a boat or submarine.

TRENCH A ditch dug by soldiers that gives some protection against enemy fire.

TRUCE An agreement to stop fighting.

U-BOAT A German submarine.

ULTIMATUM A final demand which, if it is not met, will result in serious consequences and a total breakdown of communication.

WAR BOND A certificate issued by a government in return for the investment of a sum of money. The money raised by the bonds helps pay for the war. It is repaid later with interest.

WAR OF ATTRITION Continuously attacking to wear down the enemy.

WIRELESS A communications device that sends messages as radio signals.



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