

瓜

1

A CHANGE



CONTENTS

Author and artist

Mark Bergin was born in Hastings, England, in 1961.

He studied at Eastbourne College of Art and has specialised in writing and illustrating historical reconstructions, aviation and maritime subjects since 1983. He lives in Bexhillon-sea with his wife and three children.

Series creator

David Salariya is an illustrator, designer and author. He is the founder of the Salariya Book Company, which specialises in the creation and publication of books for young people, from babies to teenagers, under its imprints Book House and Scribblers.

Editor

Karen Barker Smith

Editorial Assistant

Michael Ford

© The Salariya Book Company Ltd MMVII

All rights reserved. No part of this publication may be reproduced, stored in or introduced into a retrieval system or transmitted in any form, or by any means (electronic, mechanical, photocopying, recording or otherwise) without the written permission of the publisher. Any person who does any unauthorised act in relation to this publication may be liable to criminal prosecution and civil claims for damages.

Published by

Book House, an imprint of The Salariya Book Company Ltd 25 Marlborough Place, Brighton BN1 1UB

Please visit the Salariya Book Company at: www.salariya.com

ISBN 978-1-905638-64-2

A CIP catalogue record for this book is available from the British Library.

Printed and bound in China.

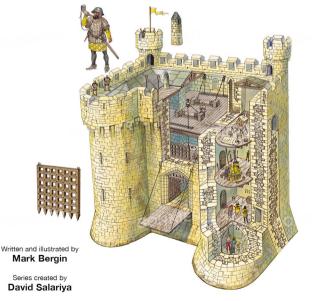
Printed on paper from sustainable forests.

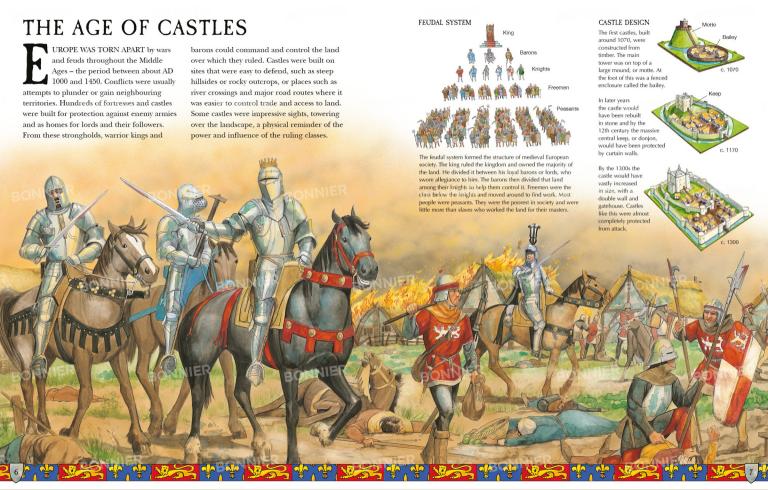
Reprinted in MMXVII.

THE AGE OF CASTLES	6
BUILDING A CASTLE	8
CASTLE DESIGN	10
THE CASTLE KEEP	12
THE GATEHOUSE	14
CASTLE RESIDENTS	16
IVING LIKE A LORD	18
BARRACKS, ARMOURY AND STABLES	20
MEDIEVAL STREETS	22
FOOD AND FEASTING	24
SUPPLYING THE CASTLE	26
BECOMING A KNIGHT	28
TOURNAMENTS	30
READY FOR BATTLE	32
UNDER ATTACK!	34
SIEGE WEAPONS	36
DEFENDING THE CASTLE	38
CASTLES AROUND THE WORLD	40
TIMESPAN	42
GLOSSARY	44
NDEX	45



A Medieval Castle





A CRAFTSMAN'S DAY



The master mason discussed the progress of each section of wall. He allocated work for the day to the various craftsmen and labor were.



Stone was transported by cart from local quarries when possible. However, for some English castles stone was imported from France by ship.



The walls were made like a sandwich – fine-trimmed blocks were used on the inside and outside surfaces and the middle was filled with a rough limestone rubble concrete.

BUILDING A CASTLE

■ HF. EARLY TIMBER CASTLES and their earthworks were constructed relatively quickly and cheaply. During a war campaign a wooden castle could be raised in an amazing eight days! A vast amount of timber was needed to build a large castle. The fortress of Telleborg, in Denmark, was built from about 8.000 oak trees. In the 12th century only the most powerful and wealthy lords could afford to build a stone castle. The building materials, including the stone, timber and iron were sometimes brought great distances to the site. Skilled craftsmen and unskilled labourers were needed to create such huge fortresses and as many as 3,000 men were employed. The master mason was in charge of building operations and he was often highly paid. He surveyed potential sites, drew up plans and ordered materials. He also hired the workforce and supervised the freemasons and journeymen who cut and shaped the stone. The site of a new castle was extremely important and was always chosen with care. A source of clean drinking water was essential. Castles had to provide a home for the lord and lady, quarters for their servants and soldiers, storerooms and dungeons. In a siege the castle needed to be able to provide all its inhabitants with shelter, food and fuel, perhaps

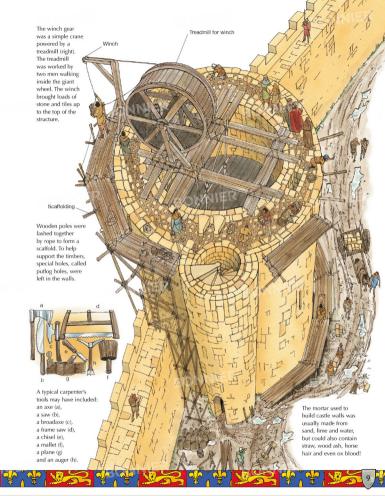
Rough timber was cut with a two-man long saw (right). Wood was sometimes toughened by soaking it in water over winter. The roof beams were held together by wooden pegs.

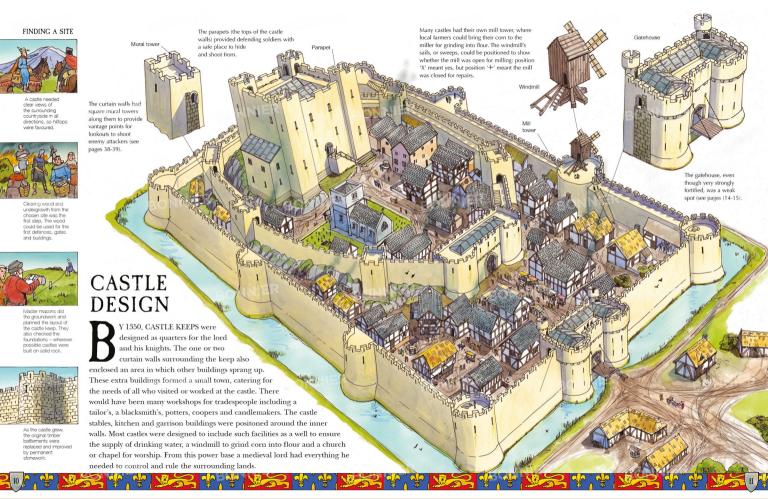
for months at a time.

Two-man long saw



A rough mason, or banker, was the lowest form of stone- mason. The banker cut simple shapes for a freemason (left) to shape into a finished piece of masonry. Freemasons were skilled men who cut stone into the shapes required for walls, staircases, arrow loops and decorative arches and vaults. Smoothed and cut stone







Those born into had a privileged upbringing, Maids and servants saw to their every need.



town of Arras.

Tapestries (right) were large decorative

thread. They often showed hunting scenes.

lady or the family's heraldic crest. Some of



Noble boys often became pages. waiting on tables and running messages for their lord.



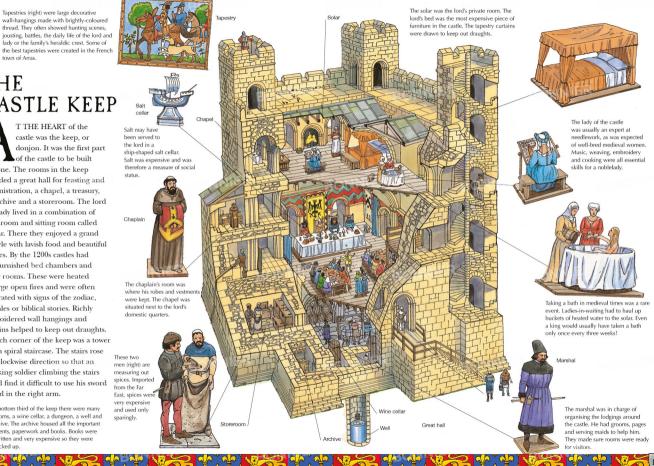
Young noble ladies learnt French (which most people spake in medieval Europe)



polite behaviour was required when living in noble society.

T THE HEART of the castle was the keep, or donjon. It was the first part of the castle to be built in stone. The rooms in the keep included a great hall for feasting and administration, a chapel, a treasury, an archive and a storeroom. The lord and lady lived in a combination of a bedroom and sitting room called a solar. There they enjoyed a grand lifestyle with lavish food and beautiful clothes. By the 1200s castles had well-furnished bed chambers and living rooms. These were heated by large open fires and were often decorated with signs of the zodiac, folktales or biblical stories. Richly embroidered wall hangings and curtains helped to keep out draughts. At each corner of the keep was a tower with a spiral staircase. The stairs rose in a clockwise direction so that an attacking soldier climbing the stairs would find it difficult to use his sword if held in the right arm.

In the bottom third of the keep there were many storerooms, a wine cellar, a dungeon, a well and an archive. The archive housed all the important documents, paperwork and books. Books were handwritten and very expensive so they were



THE GATEHOUSE

HE CASTLE'S GATEHOUSE was seen as a weak spot so it was very strongly fortified. A typical gatehouse had four barriers to block an enemy's way. First was the drawbridge over the moat. Made from thick planks of wood, the drawbridge could be raised quickly if an enemy approached - iron chains were attached to a winch in the room above and could be hauled up. The next barriers were two portcullises. These had sharpened, pointed ends that could spear or crush anybody unfortunate enough to get under them. In the roof area between the two portcullises were murder holes so that any enemy getting this far would be picked off by an archer above. The last barrier was a set of heavy gates. These were shut and barred from inside the castle.

The castle guards lived, ate and slept in the turrets so there was always someone on guard. Around the top of the gatehouse parapets there were many arrow loops and holes through which boiling oil or heavy stones could be dropped onto attackers below.

Guard sounding the alarm In the small watch-turrets lookouts could sound the alarm or signal the approach of friends by various blows on a hunting horn. The rotting heads of criminals or traitors were on view to the public as they entered the main gate, to serve as a warning. The portcullis (below) was a heavy sliding grid made of wood with iron fittings. It was lowered down grooves cut in the gatehouse wall. Portcullis Murder holes were situated in the

Chimney The winch gear that lifted the portcullis was operated by the guards. A brake on the side could be knocked out Chimneys began to be used in quickly to drop the barrier on intruders below castles around the 1350s. Before that, a hole in the wall or roof allowed smoke to escape. Garrison guards (below) were on duty day and night. The lord's constable, or secondin-command, had his guarters in the gatehouse so he was always aware of who was entering and leaving the castle.

The castle's torture chamber was underneath the gatehouse. Prisoners were tortured with hot irons until they confessed to whatever they were accused of. Captured knights were often held to ransom and a large sum of money was usually demanded for their

safe return.

ENTRANCE FEATURES



A wicket gate was a small door in the main gate and was used by visitors at night or when the castle gates were shut.



Peepholes in the side of the gatehouse gave guards a chance to keep an eye on visitors as they entered the castle.

roof of the gatehouse between the portcullises. Arrows or stones could rain down from these on intruders.





CASTLE RESIDENTS

CASTLE WAS LIKE A SMALL TOWN and numerous people were needed to run it smoothly and to serve and protect the lord and lady. The constable was in charge of the castle garrison and the daily running of the castle when the lord and lady were away. A number of foot-soldiers and archers were retained. or garrisoned, to defend the castle. The chaplain held services in the castle chapel and may have acted as a secretary for the castle as he would have been one of the few people who could write. The pantler was responsible for buying food and provisions, the butler dispensed wine and a ewerer provided clean linen for use in the great hall. Young noble boys came to live at the castle to become pages and they helped to serve meals. The horses and their stables were cared for by grooms. The worst job in the castle must have been the gong farmer's - he had to clean out the pit, or gong, under the lavatories! All these people kept the castle well maintained, safe and comfortable.



and reparing

was always tableware and busy making storage pots for the whole castle community.



garrison soldiers

beautiful shoes for the decorative the nobles as well stonework in the as boots for the church and castle



used in churches made complete frameworks for figures and stories buildings. They also did the fine carving



were skilfully handmade from brightly-coloured threade





servant

Page

Falconer

Several administrators looked after the castle's business. Clerks kept the castle accounts and a steward was in charge of the household. Bailiffs

collected rents from tenants and a reeve managed



CRAFTS IN THE CASTLE



Glass was specially made for tableware on the lord's table and stained glass for decorative windows







the lord's farms and estates.

goldsmiths worked on tableware and iewellery for the castle and its



furniture and walls with mu rals of daily life, biblical scenes and signs of thezodiac



special commissions for the lord and the



cloth from which the castle staff's clothes were fashioned.

LIVING LIKE A LORD

N PEACETIME, the lord and lady had a lavish lifestyle, hunting, hawking and entertaining other nobles. The lord also oversaw the running of his estates, such as inspecting the annual accounts drawn up by his steward and bailiff. He dealt with such documents as petitions from villagers explaining why they could not pay their taxes. Merchants from overseas sent letters asking for permission to trade in the lord's domain. If the lord was away, the running of the castle fell to his wife. From an early age, noblewomen were taught to manage large households, to give orders to servants and to keep accounts. The lady also had to organise the defence of the castle if it was attacked while her husband was absent.

Hunting

LORDS' AND LADIES' CLOTHING

Lords and ladies wore fashionable clothes (below) made of dyed wool or expensive silk and velvet embroidered and trimmed with fur. Elaborate headdresses were fashionable among the upper classes in the Middle Ages. Men and women both wore jewellery and gloves and perfumed their hair.



HUNTING AND HAWKING

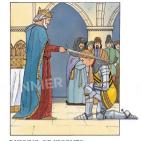
Medieval nobles enjoyed hunting and hawking, These activities could last an entire day and were good exercise for horses and their riders. Wild boar, deer, foxes, hares and rabbits provided sport and meat for the castle larder. The lord's hunting dogs were specially bred and carefully trained to smell out and track down their quarry. These dogs were usually valuable and were cared for by the lord's huntsmen and kennel-grooms. Ladies generally preferred hawking to hunting other riding into the forest and taking a pricine. The lord's falconer was highly skilled in training and flying his birk of prey, such as peregripire falcons.



ADMINISTERING JUSTICE

The lord of the castle sat in judgment in the great hall each morning. He listened to tenants' disputes, crimes or rent troubles. The chaplain kept a careful record of the cases, judgements and the punishments given in a ledger. The treasurer collected punishment fines and used the money to pay soldiers and other household expenses, and other household expenses.

If someone was found guilty of a crime, the ford decided the punishment immediately. A thief or someone who had committed a violent act could be whipped or even hanged. For those found to be traitors against the king, punishment was extreme – the person was hung, then drawn (dragged by horses) before being quartered cut into four pieces)! The head of the traitor was then boiled, tarred and stuck on a spike on the gatehouse for all to see.



DUBBING OF KNIGHTS

One of the lord's duties was to dub knights. Squires could only become fully-fledged knights when they attained the high standards required and this usually happened around the age of 21. The squire swore an oath of loyalty to his lord and the king. The lord 'dubbed' the squire by tapping his shoulders with a sword. The squire was then a knight.



The lord had the power to tax his teanats in many ways. If he needed to raise money to go on a war campaign for the king, he may put up town taxes. These taxes would filter down to the peasants in the form of higher priced goods and food. Collecting taxes (right) was normally the job of the steward. He was well-paid for his responsibilities which included collecting taxes, organising farm workers, keeping accounts and informing the treasury how much to pay for expenses and wages.



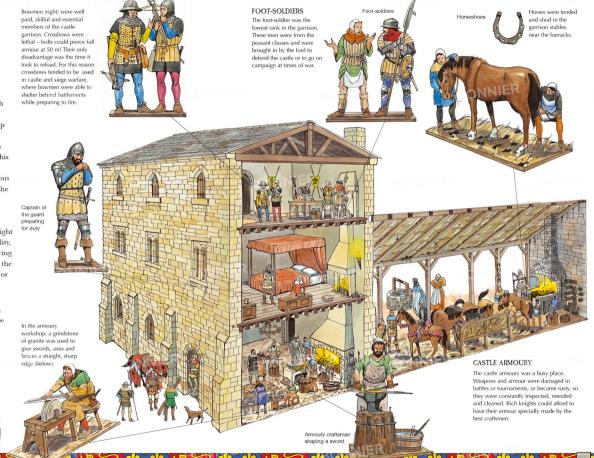
BARRACKS, ARMOURY AND STABLES

OME LATER CASTLE DESIGNS included barracks. The castle at Carcassonne, in France, in the 13th century included barracks. The barracks housed the castle garrison, made up of foot soldiers, archers and hired soldiers, They ate, slept and spent their spare time in the barracks. The captain of the guard had his own room but was close enough to keep an eve on the men under his command. Weapons and armour were made and maintained in the castle armoury. Both master craftsmen and apprentices worked in the armoury, cutting and hammering sheets of heated metal into swords, helmets and shields (below). If a knight was to survive in battle he needed good quality, well-fitting and often expensive armour. During this period the very best armour came from the German cities of Nuremberg and Augsburg or Milan in Italy.

CHAIN MAIL

Early chain mail was made up of many interlocking rings of iron, skilfully made into coats or leggings (below left). By the 13th century armoured coats were made from overlapping metal plates or sections (below right).





MEDIEVAL STREETS HE CASTLE STREETS WEFE

hemmed into the space between the keep and the curtain walls and were crowded and noisy places. Peddlers and shopkeepers shouted about their wares, a town crier advertised forthcoming fairs and marriages and beggars called out for alms (charity given to the poor). The streets were smelly because there were no proper drains. Rubbish and human waste were thrown directly into the streets and the nearby river. Some town councils paid 'scavengers' to clear the refuse. Craftsmen, such as cobblers, had workshops in the town. Many craftsmen and merchants formed societies, or guilds, to control prices, ensure goods were of a high standard and organise the training of apprentices. On market days, held once or twice a week, travelling merchants set up stalls selling items such as candles, fresh fish, pies, pottery, glass, ale, spices and leather goods. Entertainers - musicians, jugglers, acrobats and people with trained animals - performed for a penny or less. People went to the market to buy goods, but also to meet friends and catch up on local news and gossip.

In the tailor's workshop seamstresses made, mended and cleaned clothes for most people in the castle. They worked on soldiers' wool-padded tunics, as well as fine silk dresses for the lady of the castle. They triver. To obbblers, fitsmen uilds, of a nigo of a nigo of a nigo of a nigo of sece or the patients. Seamstresses in a tailor's worksho in the properties of a nigo of secent the properties of the pro

crowd about his wares.

Travelling

The stocks (opposite) were used as a form of public humiliation for those who committed petty crimes, In the tailor's such as slander. The offender's workshop hands or feet were put in the stocks seamstresses made, and townspeople were encouraged mended and to throw rubbish and rotten food cleaned clothes at him. for most people in the castle. They worked on soldiers' wool-padded tunics as well as fine silk dresses for the lady of the castle. Seamstresses in a tailor's workshop

Travelling merchants and their market stalls sold many items not available locally, such as fine and colourful cloth from northern France (left). People haggled over prices.

Off-duty soldiers, farmers and traders could buy food and drink at the ale house, or tavern, and catch up on news and gossip (below).

Inside a

Trained bears were a crowd pleaser as most people would never have had the opportunity to see a live bear before. Bears are intelligent animals and could be trained easily. This practice was cruel and often they were taken from their mother as cubs. People paid to see a bear perform tricks for

Bear and handler



candlemaker, made candles for the castle. The lord's candles were made from beeswax, but for peasants, tallow was used. Wicks were made from thread or thin rushes.



hand. Pies often had birds' heads popping out of the crust as



Flour for the castle was ground in the lord's windmill. The miller produced different grades of flour - fine to make white bread for the lord or coarse to make brown bread for the servants.



Bread was baked in brick ovens outside the keep, in case of fire. The ovens were heated by burning wood and the loaves were laid on the hot floor using wooden shovels called peels.

Pages, squires and waiters hurried around serving food under the watchful eve of the steward. The staff wore tunics bearing the lord's heraldry (below).

The lord's hunting dogs (right) roamed

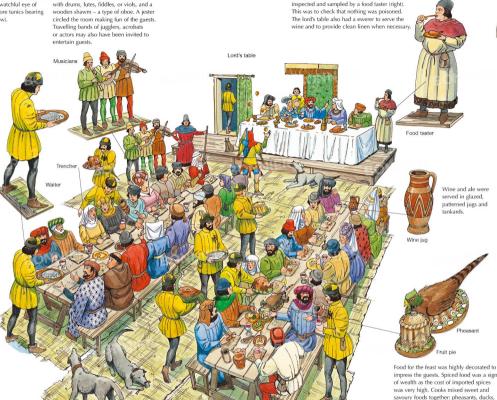
around the hall in search of tasty titbits,

such as discarded bones.

Musicians (below) entertained diners

FOOD AND FEASTING

EASTS WERE HELD on special occasions. such as festivals or when the lord received visitors. The lord and his guests sat at a table apart from the other diners and overlooking them. Important members of the household sat at tables near the lord. Less important people sat further away. The main meal was eaten at about 10 am and could last several hours. The top table was served first with silver or gold tableware. Everyone else's meals were served on thick slices of stale brown bread called trenchers. These soaked up gravy, grease and sauce from the food. Everyone used their fingers and a spoon to eat with, (forks were not in common use until the 1660s). At the end of the meal. the trenchers were given to beggars outside the castle.



Before any noble person ate the food, it was



preserve it and kept in huge wooden vats Salt was expensive because it was made by evaporating sea water from shallow



to make wine, Poorer people drank cider

Wine and ale were

served in glazed, patterned jugs and

tankards.

pigs' heads, herring, salmon, whiting and

sweet pies of creamed fruit all sat on the

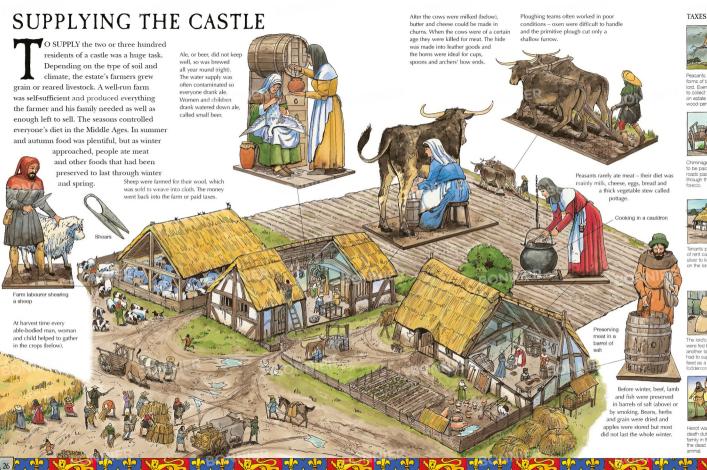
same feasting table.



A carefully-packed cauldron hung over the fre could cook many different things at the same time. Separate items were placed in the cauldron



such as parsley. borage and primrose, were commonly used in cooking





forms of taxes to their lord. Even the right to collect firewood on estate land had a wood-penny tax.



Chiminage tax had to be paid for using roads passing through the lord's



of rent called bolder silver to live in a house on the lord's manor.



The lord's horses were fed by means of another tax. Peasants had to supply good feed as a tax called



death duty, paid by a family in the form of the dead man's best

FROM SQUIRE TO KNIGHT



A nobleman's son was sent to meet the lord. He agreed to accept the boy as a page.



A young page helped serve meals, run messages and learnt the polite behaviour necessary in noble society.



At the age of 14 the page became a squire and learnt sword skills.

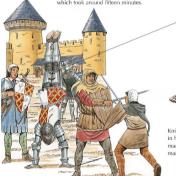


Hours were spent practising riding and fighting on horseback



T TOOK YEARS OF TRAINING to become a knight. Around the age of eight, a boy from a wealthy family was sent to work as a page in a castle. He learned to read and write as well as practising good manners and social skills. If the page did well and showed promise, he was made a squire at the age of 14. He was then assigned to a knight and had to accompany him on war campaigns and to tournaments.

A squire's duties included caring for armour and weapons and helping his knight train (below). A squire also learned to dress his knight for battle, which took around fifteen minutes.



Knight in armour

Knights were trained to exercise in heavy but well-fitting and manoeuvrable armour (above) – a fit man could even run in it!



A squire learned how to dress his knight for battle.



Squires also accompanied and assisted their knights



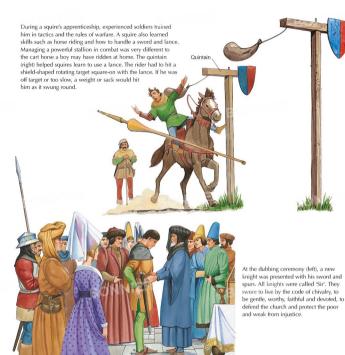
At the age of 21 a good squire was able to become a knight. He spent a night praying in the castle chapel.



The squire bathed to clean his body and wash away his sins. Then he was able



Kneeling in front of the lord or king, the squire swore to serve him and to live by the





He was then dubbed (tapped on the shoulders with a sword) by the lord or

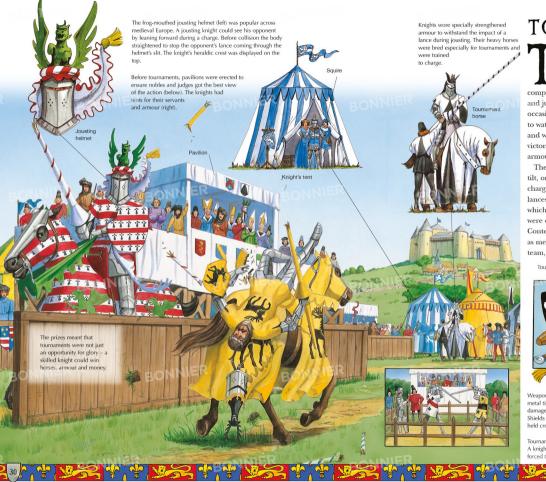


Spurs were a sign of knighthood. They were often given as a reward



When a knight was travelling between tournaments or other events he took his squire, groom and other servants

They all wore the knight's colours and heraldry. Heavy armour was worn by knights in the jousting competitions at tournaments, but not in battle.



TOURNAMENTS

OURNAMENTS were mock battles in which knights could show off and practise their fighting skills. By the 13th and 14th centuries these competitions were highly organised, with rules and judges. Tournament days were huge social occasions. The people of the castle manor came to watch their favourite knight, cheer him on and wear his colours. Rewards were high for the victors – defeated knights lost valuable horses or armour to their opponents.

The most common form of combat was the tilt, or joust. This contest featured knights charging at each other on horseback with lances. In later contests a tilt barrier was used, which prevented head-on collisions. Knights were often maimed or killed in a tournament. Contests between teams of knights were known as melees. There could be up to 20 on each team, all on horseback.



Blunt lance tips



Weapons and armour were specially made for tournaments. The metal tips of lances were splayed so that they would inflict less damage, sworfs were blunted and maces were made of wood. Shields had the top corner removed so that a lance could be held crossed over the horse (above).

Tournament games were strictly managed by judges (left). A knight who had cheated or dishonoured another could be forced to sit out a melee and so lose.



A knight on tour took with him his servants, source and horses



Heraldry was a complex system used to identify each knight, it used symbols and colours which appeared on every individual knight's shields and surcoats.



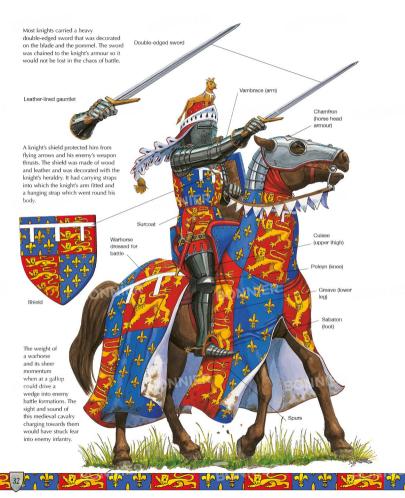
Squires handed out their knight's colours to supporters at tournaments. These small shields were worn in their hats before the garnes began.



Jousting saddles were brightly coloured and made of wood and leather. They were raised at the front and back to give the rider



Judges could stop a fight with the help of heralds or men-at-arms who would step in and force fighters apart.





DRESSING A KNIGHT

It could take almost an hour to dress a knight in plate armour (above). Each separate piece had to be buckled and strapped, with hooks and latches, onto a cloth doublet, or aketon. The doublet had mail sewn onto the vulnerable areas of the body, such as around the groin and the armpits. The plates of armour were made to measure by the most skilful craffsmen. The helmet was the last piece of equipment to be put on.



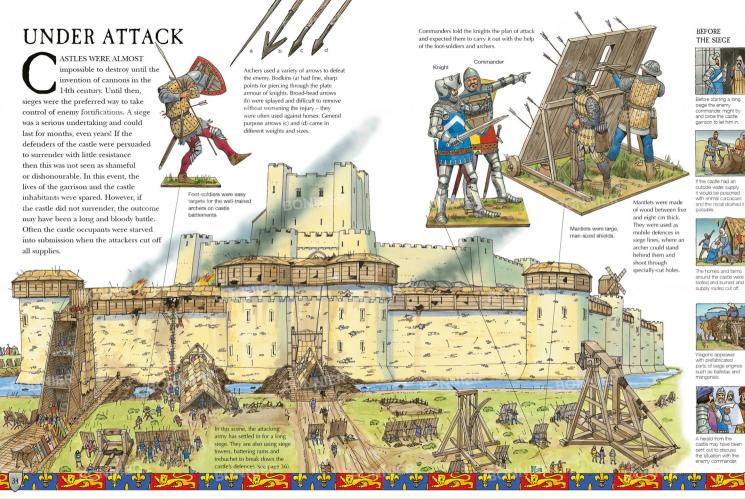
This knight's helmet from the 14th century is called a basinet (above). It had a removeable visor that opened upwards. A wire-fixed, chain mail aventail, or neck guard, protected the wearer's neck. Narrow eye slifs let the knight see and he was cooled by ventilation holes in the visor.

READY FOR BATTLE

ETWEEN THE 11TH AND LATE 15TH CENTURIES armour changed enormously. Coats-of-mail used by the Normans around 1100 did not provide very good protection against a sharp sword point. The knights of the 13th century wore thickly-padded fabric over the top of the mail and extra solid-steel plates to protect legs, chest and arms. In the 1300s more plates were added to protect against different weapons. By the late 14th century knights were completely covered in this suit of plate armour that fitted together to protect the whole body. Helmets were designed to be smaller and lighter and shields also reduced in size. The best armour, made in Germany or Italy, was very expensive – a full set of armour and a warhorse cost the equivalent of a hundred years' wages for a common labourer!







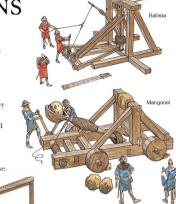
SIEGE WEAPONS

N attacking army captured the surrounding land and cut off water and other supplies to a castle at the beginning of a siege. Then they pitched their tents and set up siege weapons. There were many methods of breaking down castle walls and many different weapons with which to do so. Artillery was used to hurl heavy stones at weak points in the castle defences. Fires lit against the walls heated and crumbled the mortar and stones making them weak. Tunnels were dug underneath walls too, in the hope that the tunnels would weaken the foundations and the castle walls would collabse.

Undermining of the castle may have been carried out during, a long siege. After the moat was drained, tonnes of earth were moved and tunnels dug to get at the foundations of the castle walls. Once underneath, the attackers set light to the tunnel support timbers (below). When the supports and the tunnel collapsed, so did the wall above.

In hand-to-hand combat, one of the most effective weapons was a knight's sword. Castle staircases usually wound to the left. This allowed a defending soldier to thrust his right hand, holding his sword, forcing his enemy back down the stairs (left).

Undermining

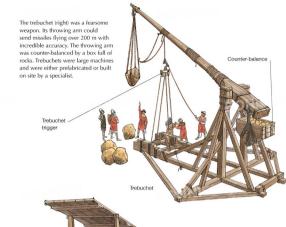


The spring ballista (top) had a central lever which was drawn back almost to breaking point. When released, it shot a giant spear towards its target.

Mangonels (above) were first used by the ancient Romans and the design survived to the Middle Ages. Each mangonel had a huge wooded arm that was wound back under tension by a ratchet. When released, the rock in its cradle was hurled through the air.

Battering rams are among the oldest recorded siege weapons. They were made from a huge tree trunk with an iron tip. The men operating the weapon were sheltered from harm by a covering of hides. Teams of men repeatedly swung the battering rams to break the doors or walls of a castle.





MISSILES



Missles used by ballistas and trebuchets included the heads of local villagers or defenders, it was thought this would demoralse those inside the castle.



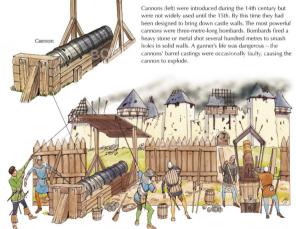
Dead and rotting animal carcasses were used to contaminate water and spread

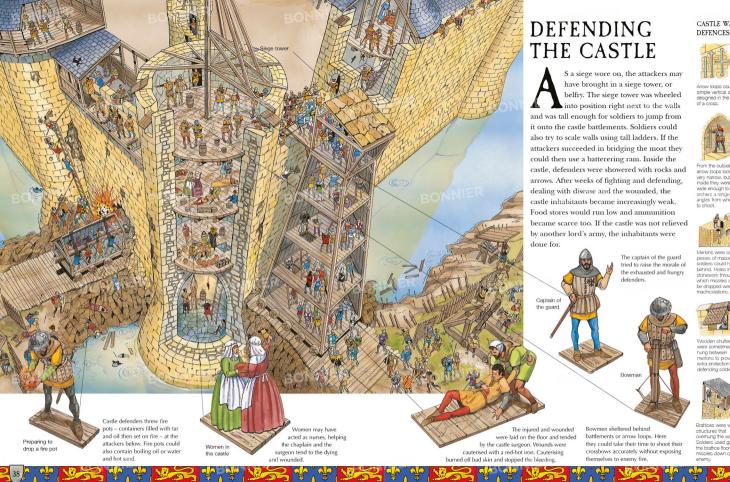


Ammunition for the largest trebuchets included rocks and stone balls, each weighing between 45 and 90kgs.



Fire pots smashed on impact and destroyed the dry wooden shingles (tiles) on the roofs of castle buildings (see page 38).







simple vertical slits or designed in the shape



arrow loops looked very narrow, but inside they were wide enough to allow archers a range of angles from which



Merlons were solic pieces of masonry that soldiers could hide behind. Holes in the stonework through which missiles could be dropped were called



Wooden shutters hung between merlons to provide extra protection to

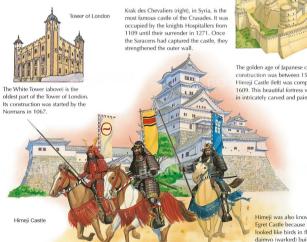
defending soldiers



structures that overhung the walls. Soldiers used gaps in the brattice floor to rain missiles down on the

CASTLES AROUND THE WORLD

reat castles have served as fortified homes and safe bases across the globe. From the graceful sloping roofs of a samurai castle to the massive red stone walls of a Mogul fortress, most castles reflect the architectural style and society of the period in which they were built. With the invention of the cannon in the 14th century, castles became of far less military importance - no castle could withstand a prolonged artillery bombardment from such weapons. Wars were increasingly fought by massed armies across whole countries, rather than between individual lords and barons. Society became more stable and trading generated wealth. Inherited titles, lands and fortunes were no longer the only source of riches and power.





Castrum was the Roman word for a fortified building and was the origin of the word 'castle'. The well-disciplined Roman army was able to build a wooden ditch and dike fort in just a few days when necessary. Some of these fortifications became permanent stone-built army bases.

Krak des Chevaliers



The golden age of Japanese castle construction was between 1570 to 1690. Himeji Castle (left) was completed in 1609. This beautiful fortress was covered in intricately carved and painted wood.





Chillon Castle

The 13th-century castle of Chillon (right), in Switzerland, was built on an island in Lake Geneva that was the site of fortifications since ancient times. The castle's main purpose was to control shipping on the lake. Inside, the rooms were well furnished and the hall was brightly decorated with a fleur-de-lys design.



The Château d'Ussé (above) is on the edge of the Forest of Chinon in the Loire Valley, France. Built on the foundations of another castle in 1485, the château is a good example of the Renaissance style and features luxurious interiors and fairy-tale turrets.



Neuschwanstein Castle

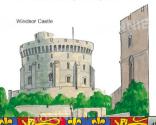


The massive fortress of Agra (right), in India, has 2.5 km of surrounding walls that are over 21 m high. The Mogul conqueror Akbar (1542-1605) started the building and it was finished by his grandson. The fortress is three-sided and made of red sandstone.



Dornie Castle (above) stands isolated in the highlands of Scotland. It is a fine example of a fortified tower house, with water on all sides, making it easy to defend. It is linked to the mainland by a small bridge.

The British royal family still uses Windsor Castle (part of which is pictured below). England, as a family home. In 1992 a fire destroyed several of the rooms, including the chapel and banquet hall. These have been restored and are open to the public.



TIMESPAN

Some of the earliest known stone fortifications were at Mycenae in ancient Greece. They were destroyed in the fifth century BC and forgotten until they were discovered again in the 1800s. The fortifications were designed with a round tower surrounded by protective stone walls.

146 BC-AD 476 The Romans built many fortified towns and buildings all over their Empire, from Hadrian's Wall in Scotland to Amida in the Middle East. Most Roman forts were constructed to defend the Empire's frontiers. They differed slightly in shape and style, but their layout and buildings were of similar design.

AD 500-1000 The Byzantine Empire built many great fortifications, including the fourth-century Theodosian Wall and the palace at Constantinople (now known as Istanbul).

AD 774 The fortified stone palace of Isa Iba Musa in Ukheidur, near Baghdad in present-day Iraq, was far in advance of European wooden designs of the time. AD 800 Feudalism began to form the structure of societies in western Europe.

AD 860s Viking slave merchants built well-defended round wooden forts to protect themselves against hostile locals.

AD 950 The earliest known French castle was built at Doué-la-Fontaine, Anjou.

1000 T he great fortress at Telleborg in Denmark is believed to have been built for King Harald Bluetooth.

1066 William of Normandy invaded England and defeated King Harold. One of William's first acts was to erect a wooden castle at Hastings, which was later rebuilt in stone.



1080s The first stone-built keeps were constructed. Around the 1100s these became the main strongholds of each castle.



1096 The Crusades start.

1140 The great tower at Hedingham Castle, in England, was finished. It is still standing today.

1150–1250s This was the main period of castle-building in England, France and Germany.



1198 Château Gaillard was built near Rouen, in France, overlooking the River Seine. It was built for King Richard I at great cost but features one of the best examples of corrugated curtain walls and had the first stone machicolations in Europe. 1205 Crusaders of the Order of Knights Hospitallers took over and rebuilt the castle of Krak des Chevaliers in Syria.

1266 King Edward I besieged Kenilworth Castle, in England. The castle did not succumb to the attack for a year due to its impressive defences. The castle's water defences made undermining impossible. The castle could only be bombarded by the longest-range weapons.

1271 Krak des Chevaliers falls to the Muslims.

1267–77 Caerphilly Castle in south Wales was built in a concentric design, with rings of stone walls inside each other. It was the largest castle in Wales.

c. 1280 Edward I built many huge castles in Wales to control the hostile Welsh. The castles were almost all concentric in design, including the castles at Beaumaris, Aberystwyth, Harlech and Rhuddlan.





rtcullis

c. 1320 Small cannons were first used in battle.

1337 The Hundred Years war began between France and England.

1345–51 An epidemic of the plague in Europe killed 25 million people.

c. 1350 The first castles to be built of brick were constructed in England and The Netherlands.

1400s Castle building declined in Europe.

1453 The Turks conquered the heavily fortified city of Constantinople (now Istanbul). Numerous guns were used to bombard the city walls from land and sea.

1475 The Spanish castle of Manzanares el Real was built. It was an elaborately decorated castle – the towers were topped by stone cannon balls and fantastic machicolations. The machicolations were actually false and did not serve a military purpose.

c. 1530 Forts came to be used as gun platforms. King Henry VIII built Deal Castle in England for this purpose. It was designed with low, round walls. Many other fortifications had similar defences along the southern coast of England.

1570–1690 This period is now known as the golden age of samurai castle building in Japan. Matsumoto Castle (1596) had six levels in its keep.

1755 Stone forts in the shape of stars were built in Europe and America. They were built as gun platforms and, in this shape, fire from each gun could cover its neighbour. One of these forts, Fort Ticonderoga on the Canadian-American border, was the source of an intense conflict between the British and the French before the American Revolution. The fort was also a strategic stronghold in the American Revolution itself.

c. 1800 The German fairy-tale castle of Neuschwanstein was built by King Ludwig of Bayaria.



GLOSSARY

Aketon A padded garment worn underneath mail armour

Armourer A metalworker who specialised in making armour and weapons.

Arrow loops Long narrow slits in a castle's walls from which arrows could be shot.

Artillery Military equipment such as guns, cannons and trebuchets.

Bailey The courtvard of a castle that included stables and other buildings.

Baron A medieval lord who oversaw large areas of land for the king.

Battering ram A large trunk of wood with a metal tip, used for knocking down castle gates.

Battlements Defensive stonework to protect soldiers on top of a castle's walls.

Bodkin An arrow head, usually triangular in shape for penetrating armour.

Bombardment A non-stop attack with cannons or catapults. A bombard was a heavy medieval cannon.

Borage A flowering plant whose leaves are sometimes used in salads or as seasoning.

Cauterise To burn the skin surrounding a wound in order to seal it.

Chivalry The knights' code of conduct.

Crossbow A very powerful bow that originated in the East, Early versions required soldiers to stretch them by hand in order to load them. In later models a mechanism was used to draw the how and the arrows were called bolts or quarrels.

Crusades Wars during the 11th, 12th and 13th centuries between Christians and Muslims in the Holy Land.

Ewerer A servant whose duties included providing clean cloths for the meal tables.

Falconer A servant in charge of training birds of prey for hunting.

Feudal system The organisation of society in medieval times.

Fleur-de-Lvs A heraldic symbol of a lily with three distinct petals.

Garrison A group of soldiers who guarded a castle.

Heraldry The system of symbols and colours on shields and flags identifying noble families.

Jester A man who kept the castle household entertained by telling jokes and making faces.

Machicolations Stone constructions overhanging the castle walls from which objects could be dropped.

Manor The manor house or castle of a lord and the lands attached to it.

Men-at-arms Fully-armed guards who would step in to control tournament fighters with their staffs when necessary.

Middle Ages Another term for medieval times, the period between about AD 1000 and 1450.

Moat A deep water-filled ditch around a castle that was an important defence against enemies.

Plate armour Armour made up of body-hugging sheets of metal. It was also known as white armour.

Pommel The raised part at the front of a saddle.

Prefabricate To make something in sections so it can be easily transported to and assembled on a site

Ouintain An apparatus for training to joust with a lance.

Samurai The Japanese fighting class equivalent to the European knights of the middle ages.

Slander Any false or insulting thing spoken about another person.

Spur A spiky attachment fitted to the heel of a horseback rider, used to make the horse speed up.

Tallow A waxy material made from animal bones and sheep fat.

Trencher A large slice of stale bread used as a plate in the middle ages. Later, the word was used to mean a plate made from metal or wood.

Vestments Ceremonial garments worn by a chaplain during religious services.

INDEX

aketon 33, 33, 44 ale 25, 26, 26 archers 14, 16, 17, 39, 39 archive 12, 13 armour 20, 20, 28, 32, 33, 33 armoury 20-21. 20-21 arrows 34, 34 ashlar 8

bailey 7, 7, 44 bailiffs 16, 16 ballistas 35, 36, 36 barons 6, 7, 44 barracks 20-21. 20-21 battering ram 36, 36, 44 Black Death 43 blacksmiths 10, 17, 17 bowmen 20, 20, 38, 38

candlemaker (or chandler) 10

cannons 37, 37, 44 carpenters 17, 17 castles building 8-9, 9 defences 38-39, 38-39 design 7, 7, 10-11, 10-11, 42 residents 16-17, 16-17 supplies 26-27, 26-27 chain mail 20, 20 chapel 12. 12 chaplain 12, 12, 17, 18, 19 chimneys 15, 15 chivalry 28, 29, 44 clerks 16, 16 clothing 18, 18 cobbler 17, 17, 22 constable 15, 16, 17 cook 16. 16 cooper 10 Crusades 42, 44

drawbridge 14, 15

entertainment 22 ewerer 16, 16, 44

falconer 16, 16, 18, 44

Page numbers in **bold** refer to illustrations

farming 26-27, 26-27 feasting 24-25, 24-25 feudal system 7, 7, 44 fire pots 38, 38 food 24-25, 24-25, 27, 27 foot-soldiers 21, 21 freemen 7

> garrison 10, 15, 16, 20, 34, 35, 35, 44 gatehouse 11, 11, 14-15, 14-15 tableware 16, 16, 22 stained glass 16, 17, 17 gong-farmer 16 groom 17

H Hadrian's Wall 42 hawking 18 heraldry 29, 30, 31, 31, 32, 32, 44 horses shoes 21, 21 tournment horse 30 warhorse 32 hunting 18, 18

jester 16, 16, 24, 25 jousting (or tilting) 29, 30, 31, 44 K keep (or donjon) 7, 7, 10, 10, 12-13,

knights 44 dressing 33, 33 training 28-29, 28-29 being knighted 19, 19, 29, 29

livestock 26, 26, 27, 27 Lord (of the castle) 6, 8, 17, 18-19, 26

M mangonels 25, 36, 36 market stalls 22, 23 marshall 13, 13, 16, 16 masons 8, 17, 17 merchants 22-23, 22-23 moat 14, 15, 44 motte and bailey 7, 7 mural tower 10, 10 murder holes 14, 14

musicians 24, 24

pages 16, 16 pantler 16 parapets 10, 10 pavilions 30, 30 neels 24, 24 portcullis 14, 14, 43 potter 10, 22 punishments 19

quintain 29, 29, 44

reeve 16, 16

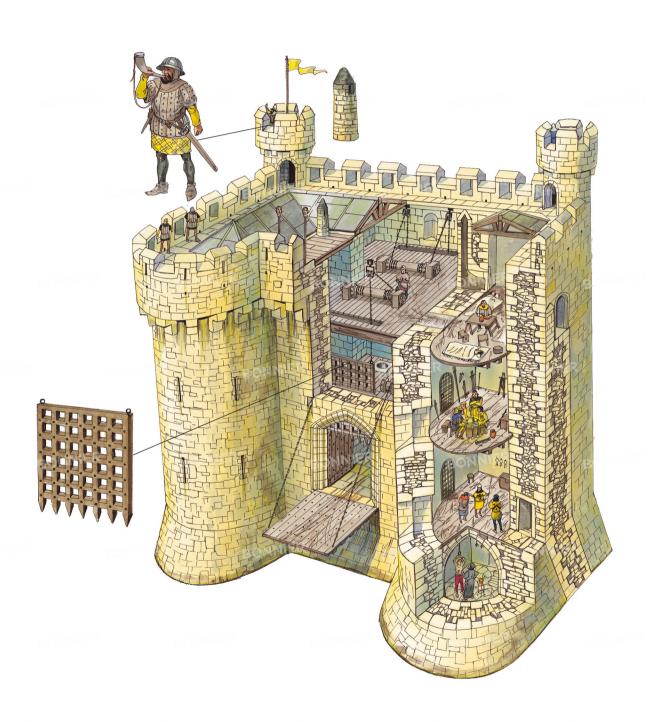
samurai 40, 43, 44 scaffolding 9, 9 siege 8, 34-35, 34-35 weaponry 36-39, 36-39 solar 12, 13, 13 squires 28-29, 28-29, 30 stables 20-21, 21, 44 steward 19 stocks 22, 23 streets 22-23, 22-23

tailor 10, 16, 16, 22 tapestries 12, 12, 17, 17 tayern 22, 23 taxes 19, 19, 26, 27, 27 tools 9.9 torture chamber 15, 15 tournaments 30-31, 30-31 treadmill 9, 9 treasurer 19 trebuchet 37, 37, 44 trencher 24, 24, 44

weaponry for battle 20, 21, 28, 29, 32, 32, 34-35, 34-35 for tournaments 31 weavers 16, 16 windmill 11, 11, 24, 24 wine 25, 25 cellar 12, 13







A CANA

i

瓜