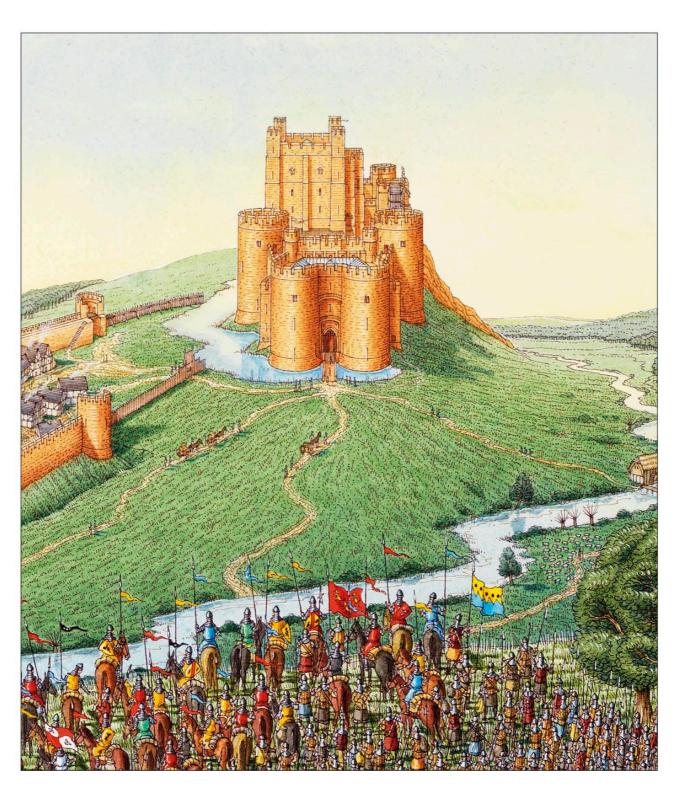
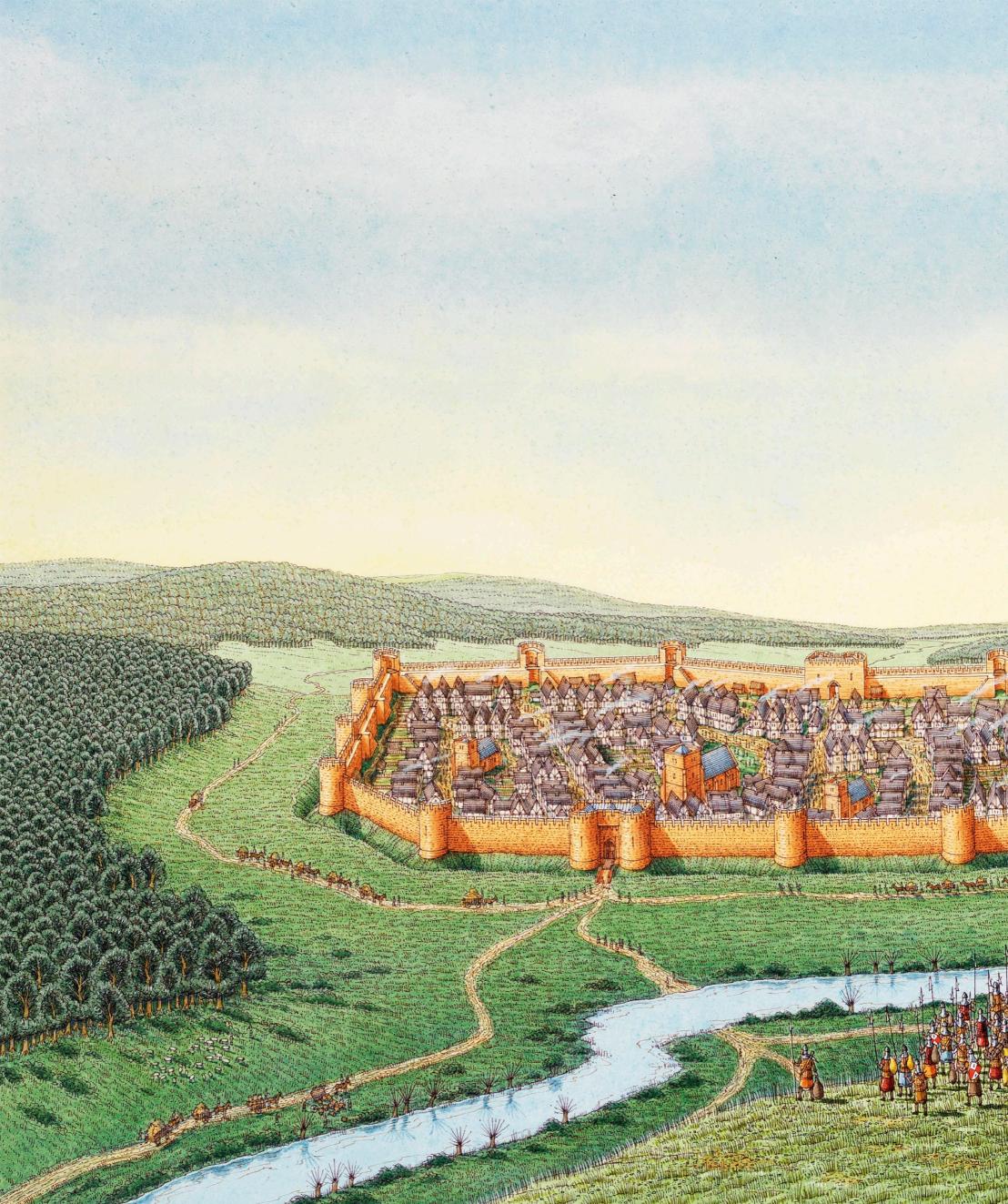
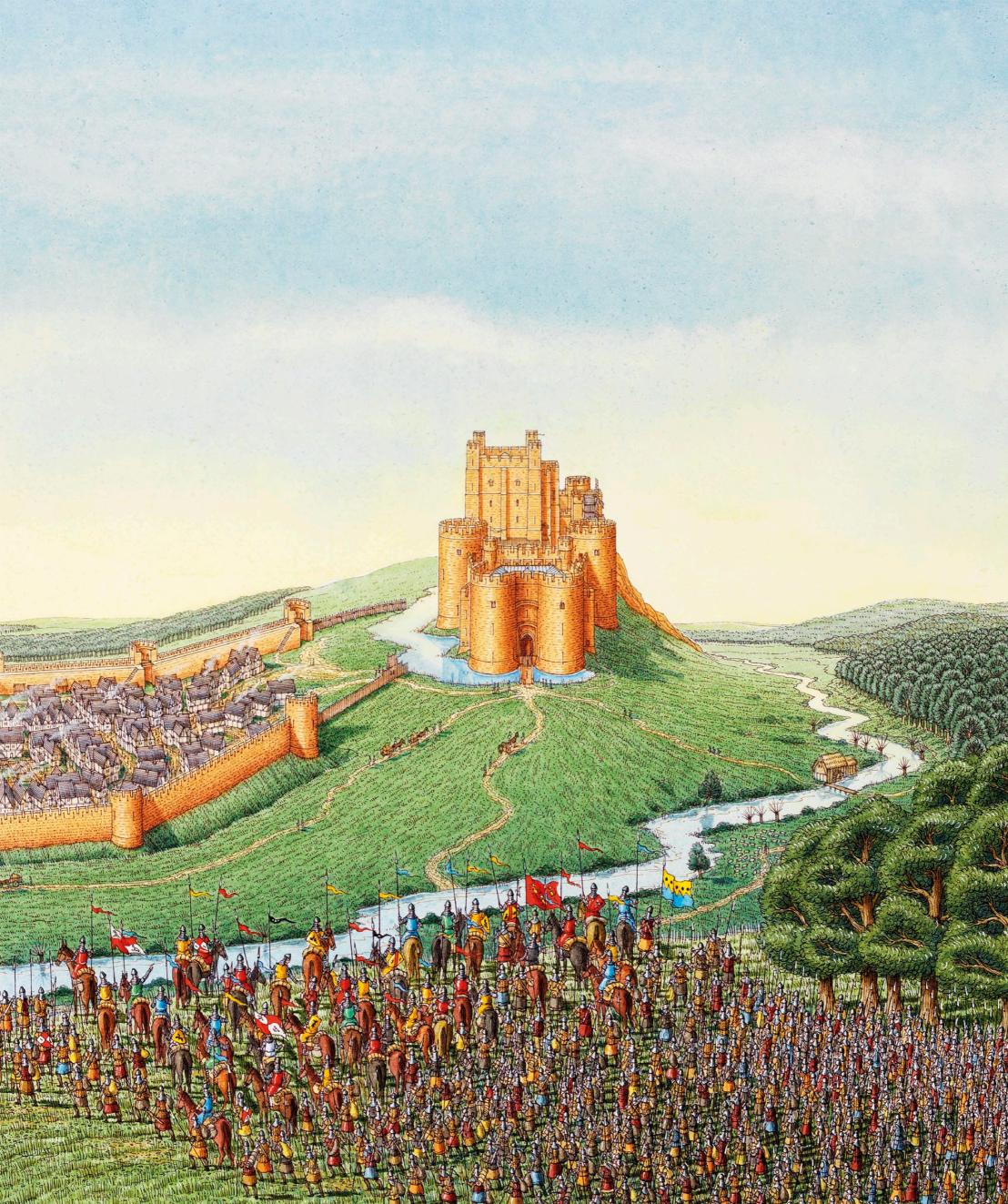


CROSS-SECTIONS CASTLE











Art Editor Richard Czapnik
Senior Editor John C. Miles
Production Ruth Cobb
Historical Consultant Christopher Gravett
(Assistant curator of gravey)

(Assistant curator of armour The Royal Armouries, H.M. Tower of London) **Art Director** Roger Priddy

REVISED EDITION

Senior Editor Camilla Hallinan

Editor Sarah Edwards Assistant Editor Ankona Das Art Editor Kit Lane Assistant Art Editor Srishti Arora DTP Designers Umesh Singh Rawat, Dheeraj Singh, Bimlesh Tiwary

Pre-Production Manager Balwant Singh

Production Manager Pankaj Sharma
Producer, Pre-Production Gillian Reid Senior Producer Angela Graef
Managing Editors Francesca Baines, Kingshuk Ghoshal
Managing Art Editors Philip Letsu, Govind Mittal

Publisher Andrew Macintyre
Publishing Director Jonathan Metcalf

This edition published in 2019 First published in Great Britain in 1994 by Dorling Kindersley Limited, 80 Strand, London WC2R 0RL

Copyright © 1994, 1996, 1997, 2017, 2019 Dorling Kindersley Limited, London A Penguin Random House Company 10 9 8 7 6 5 4 3 2 1 001-314184-May/2019

All rights reserved.

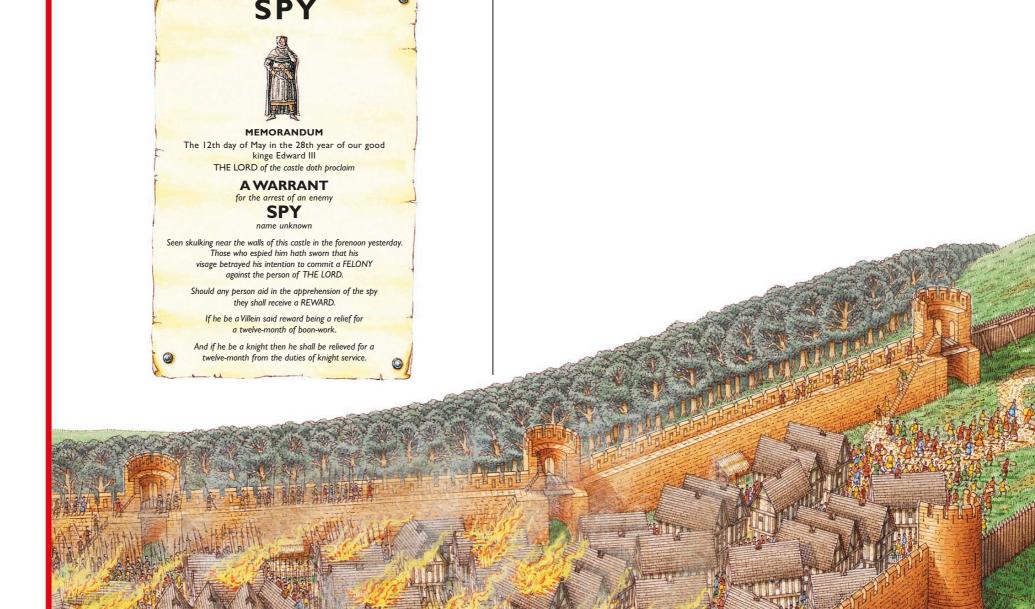
No part of this publication may be reproduced, stored in or introduced into a retrieval system, or transmitted, in any form, or by any means (electronic, mechanical, photocopying, recording, or otherwise), without the prior written permission of the copyright owner.

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

ISBN 978-0-2413-7979-0 Printed and bound in China

A WORLD OF IDEAS: **SEE ALL THERE IS TO KNOW**

www.dk.com



STEPHEN BIESTY'S CROSS-SECTIONS CASTLE

STEPHEN BIESTY

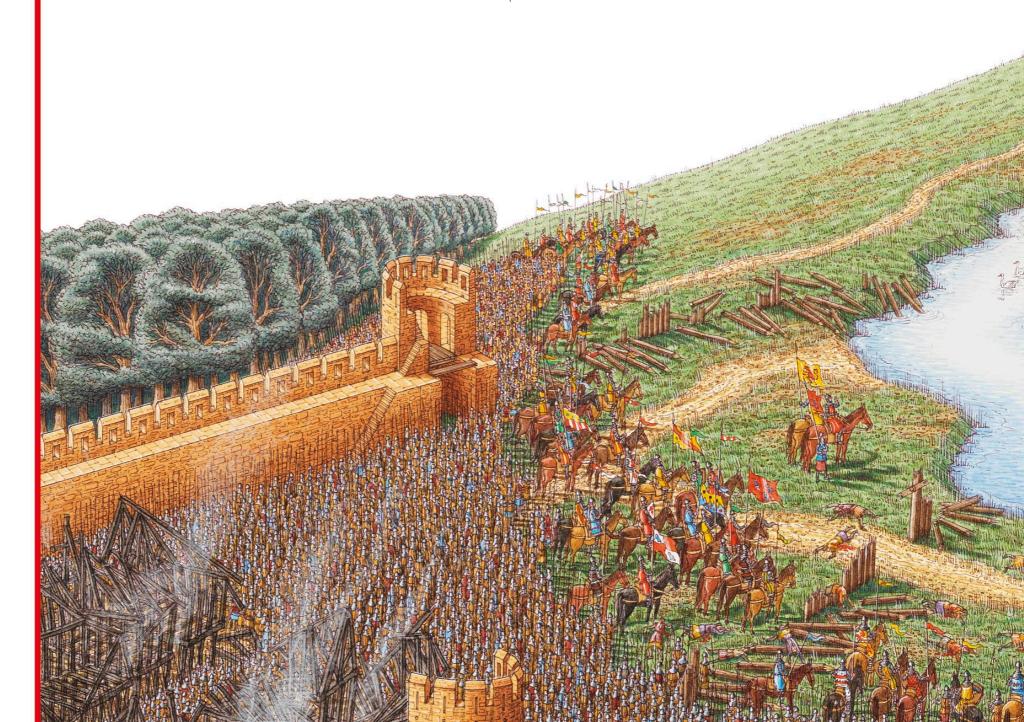
WRITTEN BY
RICHARD PLATT



CONTENTS

- 8 Introduction
- 10 Defence and siege
- 12 Garrison and prisoners | 24 Livestock and produce
- 14 Building the Castle
- 16 Trades and skills
- 18 LIVING LIKE A LORD

- 20 Food and feasting
- 22 Entertainment
- 26 Munitions and punishment
- 28 Glossary & Index





8

Introduction



TOWERING HIGH above the landscape, European castles still look commanding. Imagine, then, how powerful a castle looked 600 years

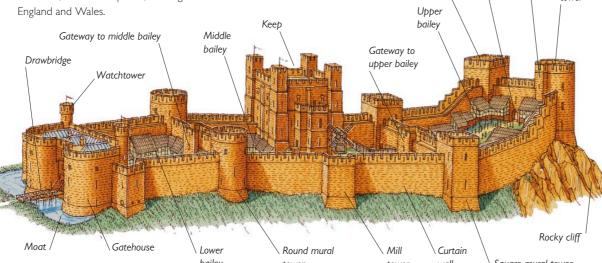
Siege engine towe

ago when it was new. Bright flags flapped from the towers. Sunlight glinted from the armour of soldiers patrolling the walls. A castle was built to impress. It was the fortified home of a powerful warlord. From its safety he ruled the surrounding land.

The castle shown here dates from around 1350, but castle building began in the 10th century. The first castles replaced temporary wooden forts. Castles evolved and became stronger as methods of warfare changed. In the pages that follow, you'll see how warriors surrounded and attacked a castle, how the people in the castle prepared for war, how they defended themselves, and how they lived in peacetime.

The anatomy of a castle

There was no standard shape and structure for a castle: the builders adapted their designs to suit the site, the budget, and the military dangers of the day. This castle is based on Chinon in France, and on Chepstow, which guards the border between



Castle defences

High walls and solid towers were the castle's main defence. They kept out the attacking soldiers, and the parapets (the walls' jagged tops) provided the defenders with a safe clear view over the surrounding land. Every castle also made maximum use of the

natural features of its site. By building the castle on a high point, the defenders had gravity on their side. Attacking warriors had to struggle up a slope to reach the stronghold, while facing a devastating shower of arrows from the defenders on the walls

Castle personalities



The noble family were at the centre of castle life. Everyone else served or protected them. The page was a young servant, but like the knight who fought for the lord, he also came from a noble family.

A humble priest led the family's worship and acted as secretary. The fool entertained them, and a host of other workers, such as the gong farmer, kept life in the castle comfortable – or at least bearable



Moat

A water-filled ditch enclosed the castle on the two sides

that were not protected by cliffs. Fish and fowl from the moat also provided food for the castle.



A high wall surrounded the castle. Towers enabled the defenders to see anyone approaching the castle, and





The first point of attack was usually the main entrance.

A sturdy gatehouse protected the way in to the castle. Fiendishly clever traps awaited the intruder.



Bailey

The wall enclosed several courtyards, each called a

bailey. In war, animals and villagers sheltered here; in peacetime, these areas housed workshops.



A water supply was vital, especially if the castle was

surrounded. Wells, dug into the rock below the castle, provided water for drinking and washing.



Keep

The lord and his family lived at the heart of the castle, in

the keep. If the castle was attacked, the defenders retreated to the keep, and fought to the death.

Thick walls

Arsenal

The thickness of castle walls made them very strong. Most were more than 2.5 m (8 ft) thick, and the walls of castle towers were thicker still.

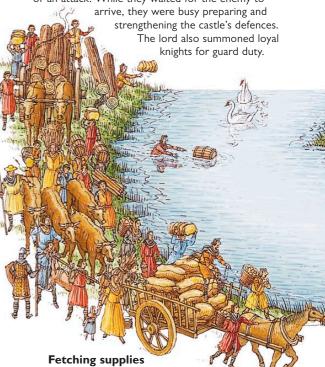
Rough limestone

Rubble (rocks) mixed

Internal walls were blastered smooth

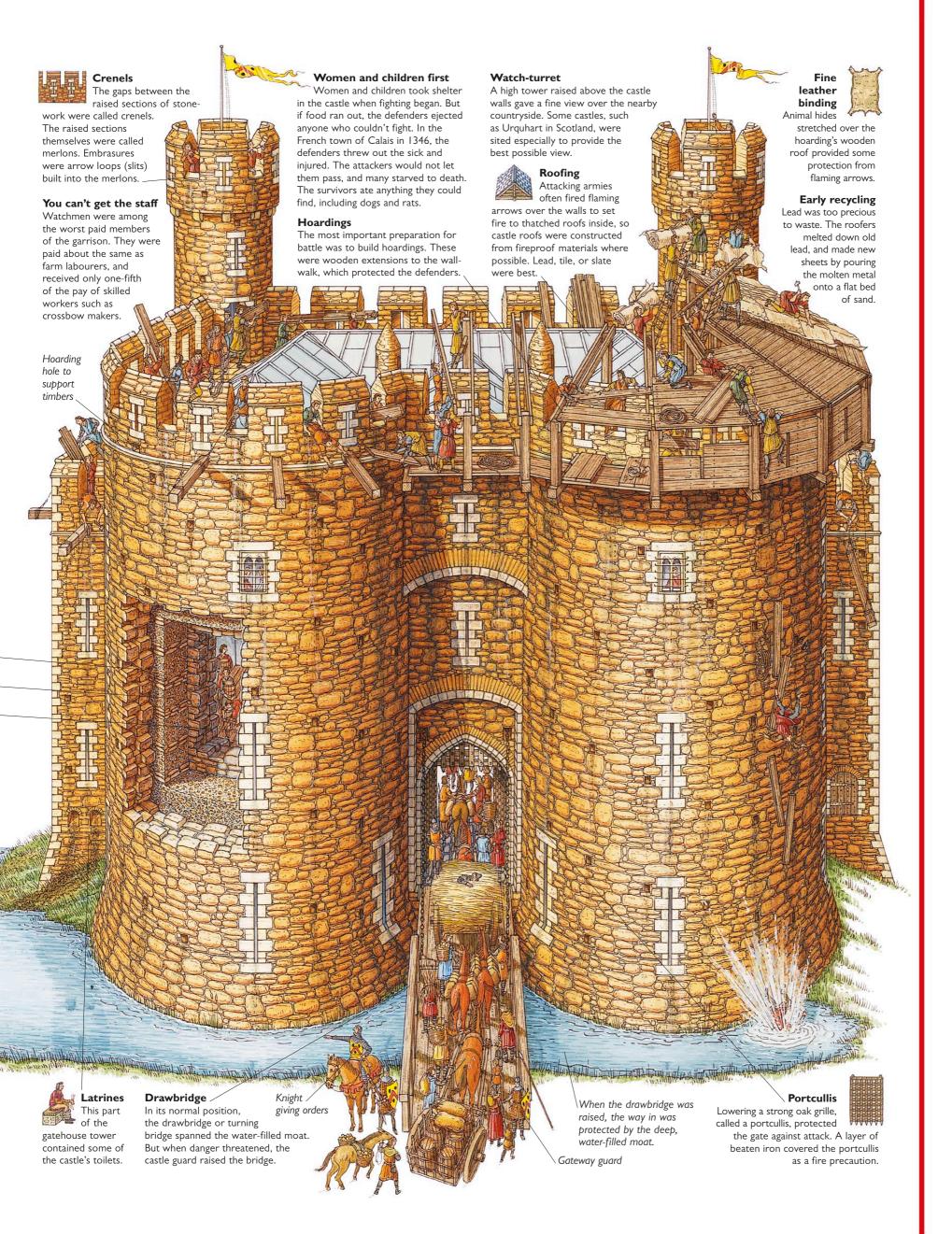
Preparing for the battle

Surprise attacks on castles were unusual. More often, the castle defenders had plenty of warning of an attack. While they waited for the enemy to



A castle under attack had to survive on its stockpiles of food and other supplies. So before the fighting started, the castle $% \left(1\right) =\left(1\right) \left(1\right)$

guard collected all they could. This often left the peasants in the countryside with nothing to eat.



Defence and siege



IN PEACETIME, the castle could be a home, an administrative centre, a storehouse – even a market. But in wartime, the castle threw off

these peaceful disguises. It became a fortress, in control of a wide area. When hostile armies surrounded the castle, soldiers raised the drawbridge and prepared for a furious fight. A siege had begun!

Inside, the castle garrison waited for reinforcements, or just hoped the attackers would go away. The besieging army waited for the inhabitants to die of hunger or disease. The attacking soldiers spent the long hours of waiting trying to break into the castle. If they were successful, they swarmed inside. Often the attackers bribed someone inside the castle to open the gates. Sometimes the siege ended because attackers and defenders made a formal agreement, a lot like a modern peace treaty.



Signalling a siege

A siege formally began only when the attacking forces fired their siege

weapons against the castle walls. Until this signal, the commander could surrender his castle and its inhabitants without shame

The trebuchet didn't just fire rocks:

hoping to introduce disease into the

besiegers fired severed human heads.

castle. For a really grisly attack,

soldiers also loaded it with pots of lime,

which burned the skin, or dead animals,

Murderous missiles

The trebuchet was a large siege engine, which hurled projectiles high in the air over the castle walls - up to a distance of 300 m (980 ft). It was powered by a counterweight, which swung the long end of the arm up and over to release

Counterweight

swings arm



Mangonel

The mangonel threw projectiles on a low

trajectory (they did not fly high in the sky). Rocks fired from the mangonel smashed against the castle, rather than flying over the wall into the bailey.



Fast and far

The range of the

400 m (1,300 ft):

substantially more

than the trebuchet.

Archer preparing

incendiary arrow

Carrying

mangonel was about

Accuracy

A skilled bowman could put an arrow straight through an arrow slit, but even the best archer needed 5 or 6 attempts to be sure of hitting the target.

> Archers firing incendiary (flaming) arrows



Bats in the belfry

The biggest siege engine was the belfry (bell tower). This huge wooden tower was tall enough to look over the castle walls

On your marks...

The belfry could hold hundreds of men. At the 1266 siege of Kenilworth Castle, 200 archers and II catapults operated from a single tower.

Pull up the ladder

Only desperate or foolish soldiers tried to scale the walls on ladders, because they were defenceless as they climbed the swaying poles.

Hook to secure top of ladder

operating drawbridge

Lowering ladder



Lowering the drawbridge allowed attacking soldiers to swarm across into the castle

Counterweight

The simplest trebuchets had no counterweight. Instead, troops just pulled down on the shorter end of the arm.



Mantlet

A portable barrier called a mantlet

provided protection for archers or miners who were within range of the castle's defenders

Catabulting severed heads

Miner problems

If the castle resisted attack, soldiers called sappers tried to break in by mining - digging tunnels under the walls to make them collapse.

Once the sappers were under the walls, they lit a fire to destroy the wooden props supporting the tunnel and make the mine collapse. At one siege in 1215, the commander ordered "forty of the fattest pigs, of the sort least good for eating" to fuel the fire

Rolling road

shelter. They moved it forwards

gradually, and the shelter got the

nickname "tortoise" from its slow

pace. It was also called a "cat" or a

'rat" because of its creeping advance.

Cats, rats, and tortoises Soldiers at the foot of the castle

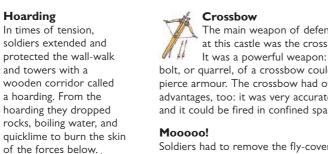
wall worked under a wheeled

Soldiers in the cat tried to fill the moat with rocks and soil. Then they built a roadway of logs to form a bridge to the castle walls.

The moat made mining difficult

Roadway of split logs





The main weapon of defence at this castle was the crossbow. It was a powerful weapon: the bolt, or quarrel, of a crossbow could pierce armour. The crossbow had other advantages, too: it was very accurate and it could be fired in confined spaces.

Soldiers had to remove the fly-covered

Peaceful pounder Even in peacetime, castle commanders found uses for their trebuchets: during a

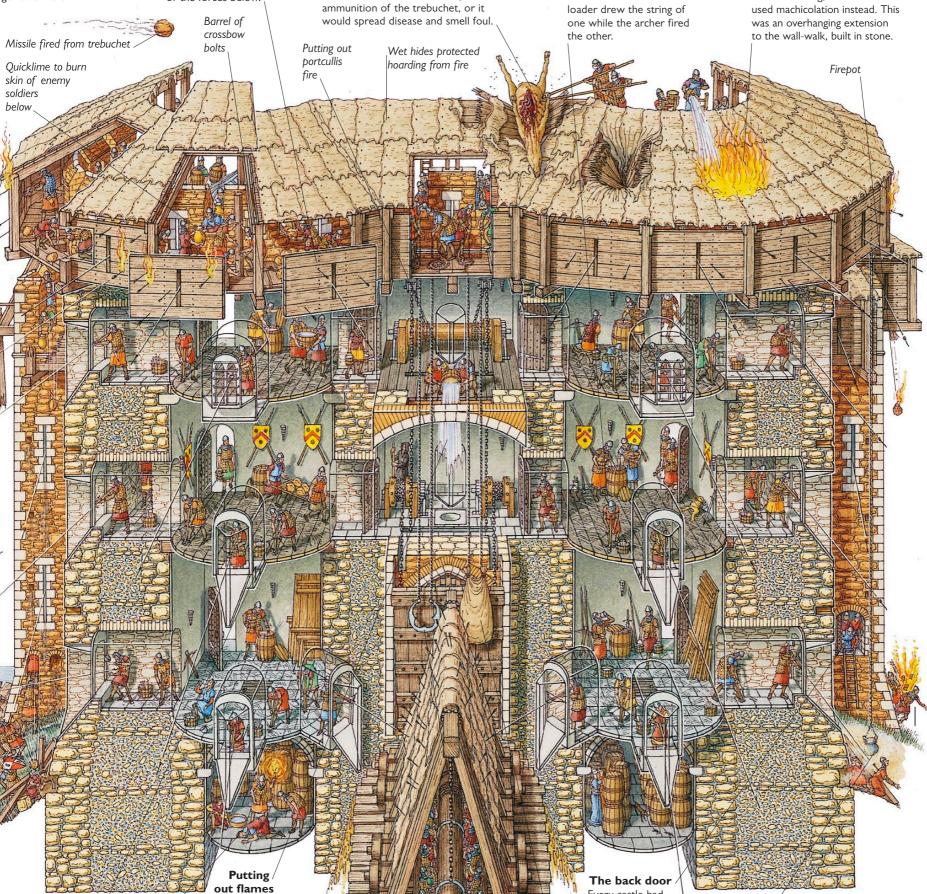
tournament of love, a trebuchet provided the watching ladies with a precision bombardment of roses.

To keep the archers busy, each had two bows. A loader drew the string of one while the archer fired

Firepot Pots filled with flaming liquids such as tar set fire to anything below when they smashed.

A nice blaze

Flaming arrows could ignite the whole hoarding, so later castles was an overhanging extension



Grappling iron

grasped ram

and stopped

it swinging

Stones for dropping through murder holes

Detecting mines

Castle defenders watched for miners by placing a bowl of water on the ground; the vibrations caused by underground activities rippled the water.

If the attacking army set light to the gate, soldiers could pour water onto the flames down a chute in the wall.

Sturdy smasher

The battering ram was a tree-trunk hanging from a sturdy framework. Soldiers swung it back and forth to smash the door.

Every castle had a "sally port". From this small, easily overlooked door half-way up a wall, troops could sally forth (go out) in secret.

Muffling the blows

To soften the blows of the battering ram, the defenders lowered a thick pad on ropes. Pot of burning sulphur smoking out sappers

Battling bishop

Both sides claimed they were fighting a "just (fair) war", and called on the Church

to bless their battles and damn their enemies.

Garrison and prisoners



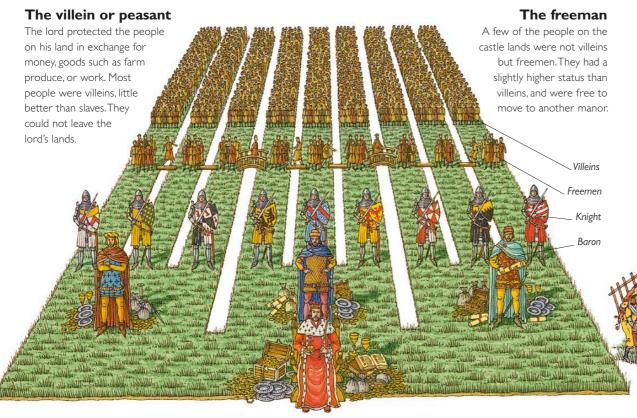
THE GROUP OF SOLDIERS guarding the castle was called the garrison. The men of the garrison spent much of their time in the massive

gatehouse that controlled the entrance. Within its sturdy walls there were ingenious gates and deadly traps. Only the most determined invasion force could enter the castle once the garrison had secured their stronghold.

The gatehouse was also the castle prison. The towers' massive construction meant that they kept prisoners in just as effectively as they kept invaders out. Noblemen captured in battle had luxury quarters high up in one of the gatehouse towers. They were held until their family paid a ransom (a large fee). While they waited, ransom prisoners lived almost as well as the lord himself. Few prisoners were this lucky, though. Most shivered and starved in the dungeons - the basement prisons beneath the gatehouse floor.

Feudal system

The lord of the castle (usually a wealthy knight or baron) did not own the land in the sense that we understand today. The lord earned the right to use the land and build his castle by swearing an oath of loyalty to a baron – a more important lord – or to the king himself. The lord also promised to do knight service (to fight on horseback) if the king needed his help in war. Under the lord's control were the many people who lived on the land. The lord protected them, in exchange for fines or fees. This social structure was called feudalism.



The baron

Barons were very wealthy noblemen who swore allegiance directly to the king. In exchange, he gave them huge areas of land. The barons were often in the presence of the king, and some had special duties.

The king

At the top of feudal society, the king ruled over everyone in the country. At least, that was what he thought, In fact, powerful barons in some feudal societies allowed the king to rule only as long as he agreed with them.

The knights

Barons could not control all their land without help, so they in turn divided it between rich knights. Each knight swore allegiance to a baron, and owed him 40 days' knight service a year.

Bastard feudalism

By the 14th century, when this castle was complete, feudalism had evolved. Instead of knight service, the lord paid money to the king or baron, who used it to hire soldiers, known as mercenaries, when he needed them. This system was called bastard feudalism.



Herbal remedies

Sweet-smelling herbs hanging in bundles on the wall perfumed the air. Herbs on the floor, called strew, gave out a pleasant aroma when crushed underfoot.

A wealthy man who farmed the lord's land paid rent by contributing to the castle guard. He had to provide soldiers, weapons, armour, and sometimes horses. These duties resulted from the act of homage, when the man put his hands between those of his lord and swore to "be his man". "Paying homage" still means performing duties for a more important person, or promising to.



Are you sitting comfortably?

The toilets were not nearly as primitive as you might imagine: They often had wooden seats, and some even had wash basins. There was no toilet paper, but a handful of hay did the job almost as well.

Yoo-hoo!

"Murder holes" in the gateway provided a handy way of shouting orders, but this was not their main function. If enemy soldiers got through the outer door, the garrison dropped the portcullis, and archers then picked off the enemy one by one.

Constable's quarters

The most luxurious room in the gatehouse was the constable's. This important man controlled the castle when the lord and his family were not at home. He was responsible for every aspect of day-to-day routine: for authorizing spending on building and repairs, for supplying provisions, and for the security of prisoners.



A slippery climb

Invaders desperate to get inside the castle even tried clambering up the latrine shaft, and this approach broke the siege of Château Gaillard, on the River Seine in France, in 1204. However, if the invaders got stuck and died in the attempt, the drains needed a good cleaning before the latrine could be used again.

Stone latrine seat

Retrieving the fallen After a battle, each side collected their dead and took them away



Castle

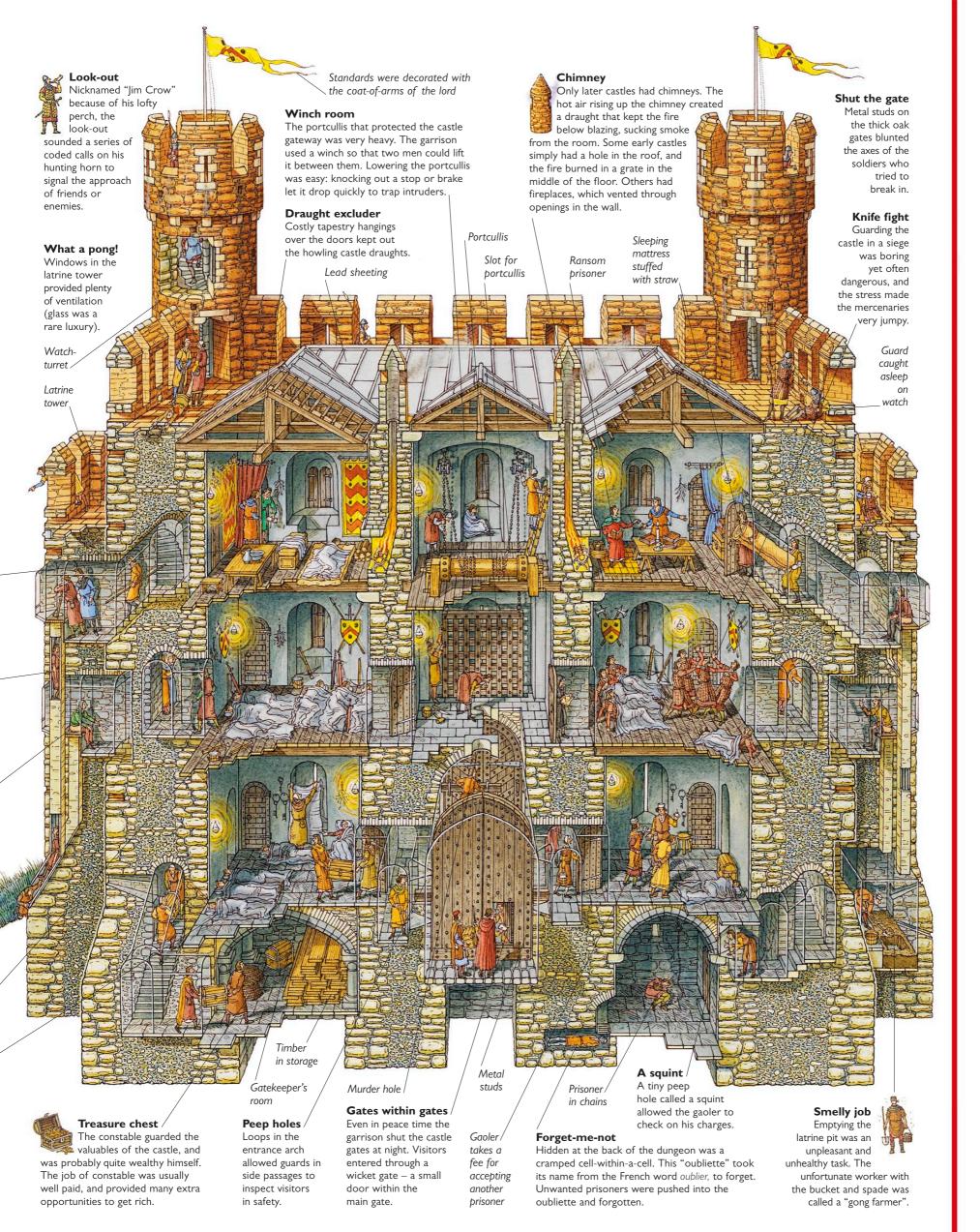


Mustn't grumble

terms would bring dishonour on them.

The life of ransom prisoners was really quite good. They may even have had the freedom to roam around the castle. Their captor granted these privileges because the prisoner gave his word not to try and escape. Some ransom prisoners also signed a document upon surrendering, in which they agreed to be obedient prisoners, that they would

pay the ransom, and they recognized that breaking the



Building the castle



CASTLES WERE VERY EXPENSIVE

to construct and repair. Only the most rich and powerful lords could afford to build them,

and they picked castle locations with great care. They chose positions that they knew would be important to hold in a battle.

However, castle-builders didn't just think about warfare. They planned for peacetime, too. The castle was a home, so there had to be ample supplies of food and fuel within easy reach. It was also a centre of administration for the lord of the manor, and usually had to be within a day's walk of his lands.

Finally, the site itself was important. The castle needed solid foundations to take the weight of the massive walls. Perhaps most important of all, within the castle walls there had to be a source of clean drinking water to supply the defenders and their livestock during a siege.

Stone masons







The master mason was highly paid, often a foreigner, and travelled from castle to castle to supervise construction. Under the master mason worked free masons. They were skilled masons who could carve stone into any shape required. The lowest grade of mason was the rough mason. He cut simple shapes, and prepared complex work for the free mason

Nails

An important part of the blacksmith's work was making nails (screws were not invented until the 16th century). The nails were not strong enough to hammer in directly; craftsmen first made a hole with a gimlet.

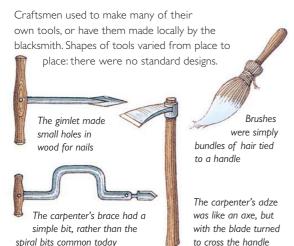




The blacksmith formed nails from hammered lengths of wire

York castle in 1327 had

Selection of tools



Licence to crenellate

Building a castle needed royal permission. This was called "licence to crenellate", because it was the crenellations (battlements) that made a castle different from all other buildings. Adulterine castles (illegally fortified houses) could be seized by the king.

Awarding the licence to crenellate to a lord

The king's scribe or secretary wrote out the licence to crenellate on a sheet of parchment





image of The king made the

document official with a

seal (a wax token embossed with a special symbol). A parchment ribbon fixed the seal to the licence.

Arrow loops

"oeillets" may

have been cut

Archers fired through narrow slits, called arrow loops, in the castle wall.

> ngbows needed a tall loop Adding a horizontal slit gave a wider

Arrow loops were splayed (spread out) on the inside, so that an archer could take careful aim

himself to fire. Not all slits in the wall were for firing arrows. Many were in place of windows, letting in air and light.

for larger crossbows loops have

several cross-slits

Sawyers

stone blocks

Some sawing went on at the site of the castle, but

sawvers (workers who sawed wood) also worked in the forest. There they chopped down trees and cut them into lighter beams.

Master mason discussing progress

Making mortar

The "glue" that held together the castle wall was mortar: a mixture of lime, sand, and water,



Blacksmith

Anything made from metal was costly, because making iron required huge amounts of fuel. To make 25 kg (55 lb) of iron required one mature oak tree.

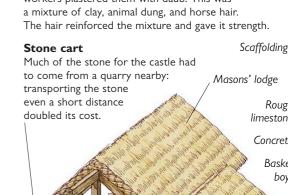
Lime - the equivalent of today's cement - was made by heating chalk or limestone in a simple furnace (oven), often built close to the castle site.

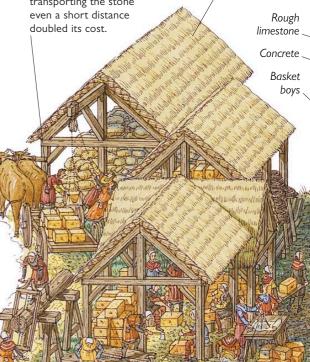
Simple tools A carpenter made holes with an auger or awl. After every few turns he pulled it from the hole to remove the chippings. Drill bits, which have a spiral groove to remove wood chips continuously, did not appear until the 15th century.

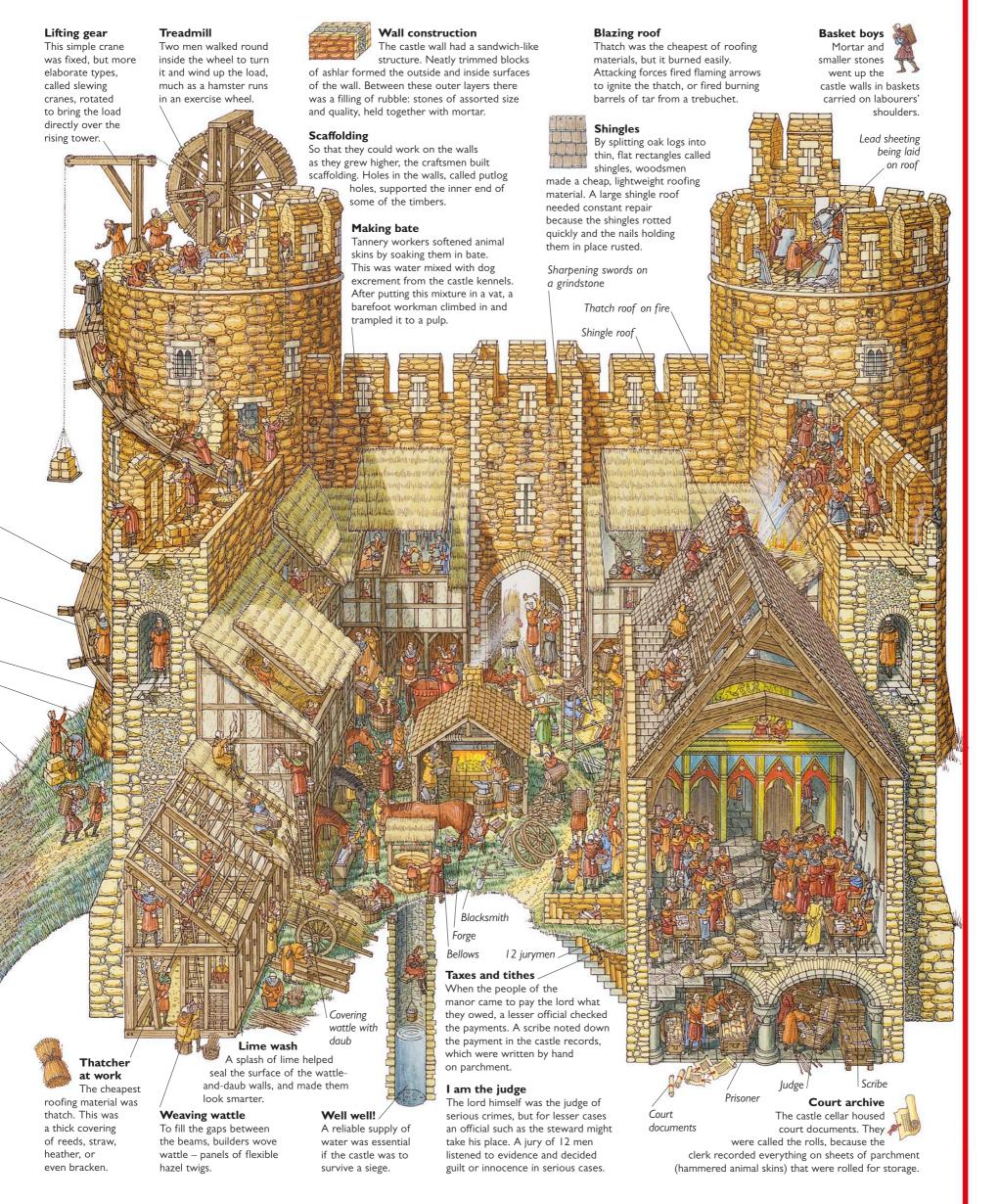
Hewing stone

Not all stone was suitable for castle walls. Very hard stones such as granite were difficult to cut. Suitable stone for working was called freestone. The masons $% \left\{ 1\right\} =\left\{ 1\right\}$ trimmed it into ashlar: regular flat-surfaced blocks, and the shapes needed for the arrow loops and arches.

Hay loft Smelly walls To make the walls waterproof, the workers plastered them with daub. This was







Trades and skills

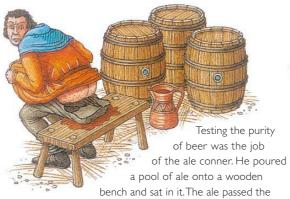


"YOU STUPID half-witted apprentice! Have you got ale froth for brains? Give me that hammer!" Every day, the high stone

walls of the bailey rang with the shouts and curses of the busy craft workers whose workshops clustered around the walls. When things went wrong (which was quite often) it was usually the youngest apprentice, or trainee worker, who got the blame.

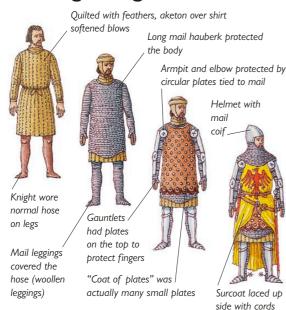
Most manufacturing and processing took place in the castle or nearby. Billowing steam swirled round the wheelwrights as they fitted a metal rim to a cart wheel. Deafening hammering from the armourer almost drowned the gentler squeak of the potter's wheel, and the whooshing of the wind in the mill sails. The malty smell of fresh-brewed ale mingled with the sizzling of melting fat from the candlemakers.

The ale conner



test if after half an hour his leather britches were not stuck to the bench. Poor quality beer was sugary, and glued him to the seat. The punishment for producing low-quality beer was probably the pillory (see page 26)

Dressing a knight



Armour changed and evolved constantly In the 14th century, knights wore three layers of body armour over their shirts and hose (woollen leggings). The innermost layer, a quilted knee-length coat or aketon, was all that poor foot soldiers could afford. On top of this knights wore chain mail, then a "coat of plates" overlapping panels of metal riveted to a sturdy shirt. Finally, the surcoat kept the sun off the armour

How mail was made

Nobody knows for sure how chainmail was manufactured, but the process was probably as follows:



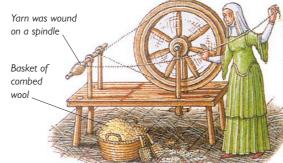
2 Passing the loops through a tapering tube tightened the rings so their ends overlapped.

3 The apprentice then flattened the ends of the rings with this tool.

> 4 The rings were pierced at both ends with this tool.

> > 5 The mail-maker himself added the prepared link to the coat and riveted it tight

Spinning wheel



This was a new invention, and was the very first labour saving machine to use continuous rotary (turning) motion and a belt drive. Until about 1300, women spun yarn by twisting it onto a distaff – a long pole. The wheel made



Plumber

The plumber shaped and joined lead sheet and pipes, and his trade took its name from the Latin word for lead, plumbum.

Watching paint dry

Painting the walls of the keep with limewash protected it against rain, and also made the castle gleam brilliant white in the sun.

When the castle was besieged, the keep was the last place of refuge (hiding), so it was designed to be easily defended. A drawbridge and a steep flight of stairs guarded the entrance in the forebuilding.



Tailors at work

Poor people made their own clothes at home, but wealthy merchants and noble needed constant polishing to remove rust

people employed tailors to sew them fine robes. Crouched over their sewing in damp workshops, tailors often suffered from bad stomachs, curved spines, and lingering coughs

Religious people who did not agree with the teachings of the Church sometimes withdrew to cells (small rooms) in the castle. Educated people valued these hermits or anchorites for their wisdom and holiness. However, their odd habits often made them a source of amusement and curiosity to the ignorant.

being

Make do and mend

A suit of armour was very expensive to make. It cost about the same as a car costs today. And like a car, armour was never replaced after a minor accident. The armourer simply bashed out the dents.



Fits like a glove The armourer made clothes of metal, so he needed

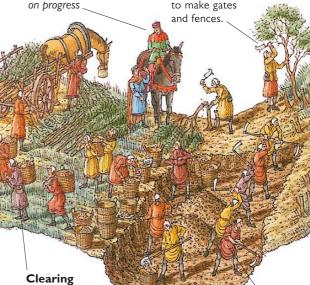
the strength of the blacksmith, and the measuring and cutting skills of the tailor.

Official checking on progress.

Bellows pumping air. into the forge

Cutting brushwood

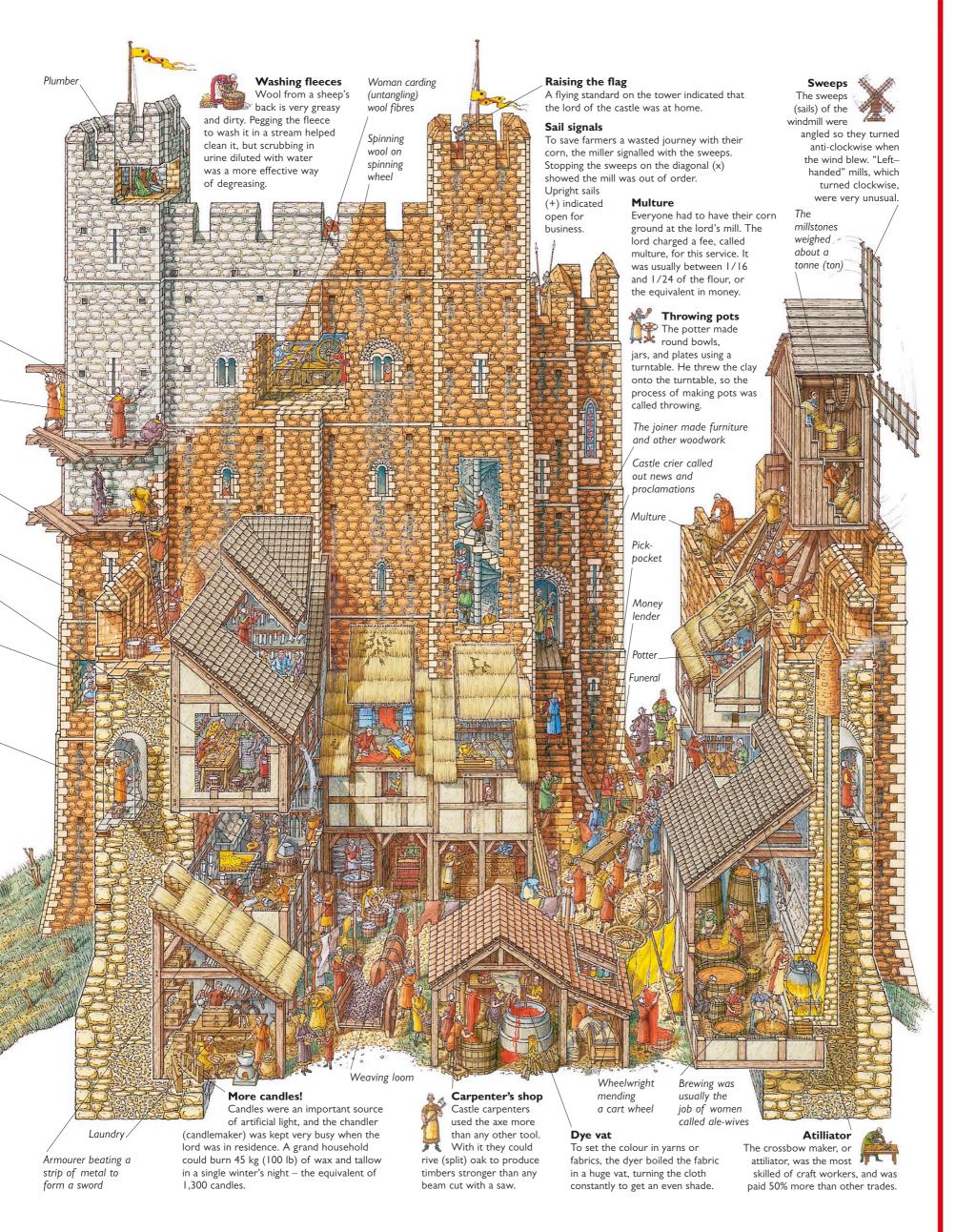
growing in the ditch didn't go to waste. Farm animals browsed on the leaves, and the hurdlemaker then used the bare branches to make gates



the ditch Workers used

baskets to carry the rich mud they dug out from the ditch. They fertilized the nearby fields with the mud.

Workers kilted their tunics up for muddy work



Living like a lord

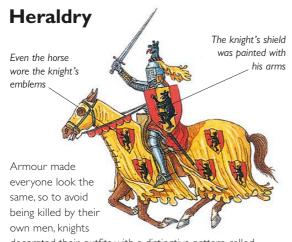


THE LORD OF THE CASTLE and his

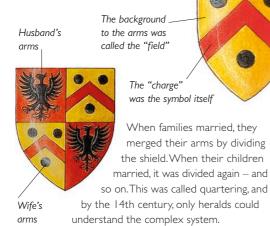
family lived in grand style. Their status in society depended on them spending money

and appearing to enjoy life. And spend they did - on lavish food, on richly embroidered wall-hangings, on beautiful clothes, on gold and silver plate, and on entertaining a host of friends and relations.

Their greatest luxury, though, was privacy. They had suites of rooms such as the solar, a kind of bed-sitting room attached to the great hall where they could withdraw from their servants and guests and do as they pleased. For everyone else who worked and lived in the castle privacy was impossible. All poor people lived their lives in full view of their neighbours, friends, and family. They lived in the same houses, ate together, slept together, washed together, and did almost everything else in public.



decorated their outfits with a distinctive pattern called arms. The patterns became very elaborate, and there were complex rules, called heraldry, for their creation.



Heraldic charges



lion rampant









lord often

jewelled chalices

to donate to

abbeys and

churches



Illuminated manuscript

Until printing became widespread in Europe in the 15th century, scribes had to copy out all books in handwriting. This made them very valuable and rare possessions: many noble households owned only a Bible, and few people had more than a dozen books



Bibles used in the lord's chapel had richly jewelled bindings

Clasps held the book closed. protecting the pages

The monks and scribes who copied out the text worked in a special room called a scriptorium. They decorated the pages with beautiful illustrations. These were called illumination because they lit up the page.

Possessions

Even rich people had few possessions in the sense that we now understand the word. In a typical duke's 14th-century household, the most expensive tems were the robes and

> hangings for the chapel. Together with household tapestries, these made up half the value of the duke's goods. Beds, clothes, gold, and silver made up the rest.

and other precious items were stored in the castle itself

One of the lord's most precious personal possessions was his sword, which was specially made for him.



Dubbing

To make a young squire into a knight, the lord dubbed him. He struck a symbolic

blow with the flat side of a sword or just with his hand.

Relief!

Guards on duty on the castle wall couldn't always leave their posts.

Unblocking the gutters

Water spout

Lead troughs carried the water through the wall, and a spout on the outside discharged it well away from the wall. Carvings of ugly faces, called gargoyles, decorated the water spouts

Reading in the latrine

The locked chest at the foot of the bed contained a hoard of silver plate (tableware). This wasn't just for a showy display on the dinner table: buying plate was like saving money, because the silver could be melted down and sold when times were hard.

Gallery

In the thick wall of the tower a gallery provided access to other rooms and staircases. Musicians also played from the gallery during feasts.

Giving alms (charitable gifts) to the poor and needy was an essential part of the medieval code of chivalry: the more a lord gave, the faster he would go to heaven when he died.

Lady of manor dictating letters



Physicians were respected and wealthy, but medical treatment was crude, and often did little to help the sick recover. Many doctors examined the patient's urine to determine the cause of

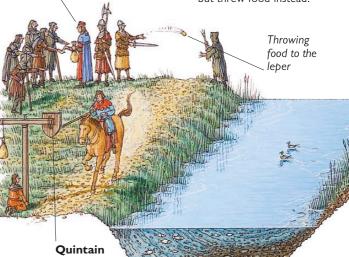
the sickness. Cures were a combination of astrology, herbal preparations, change of diet, bloodletting, and prayer.

Lord's almoner

The lord of the castle employed an almoner to distribute alms. The almoner also had the job of collecting left-over food after meals, and handing this out to beggars.

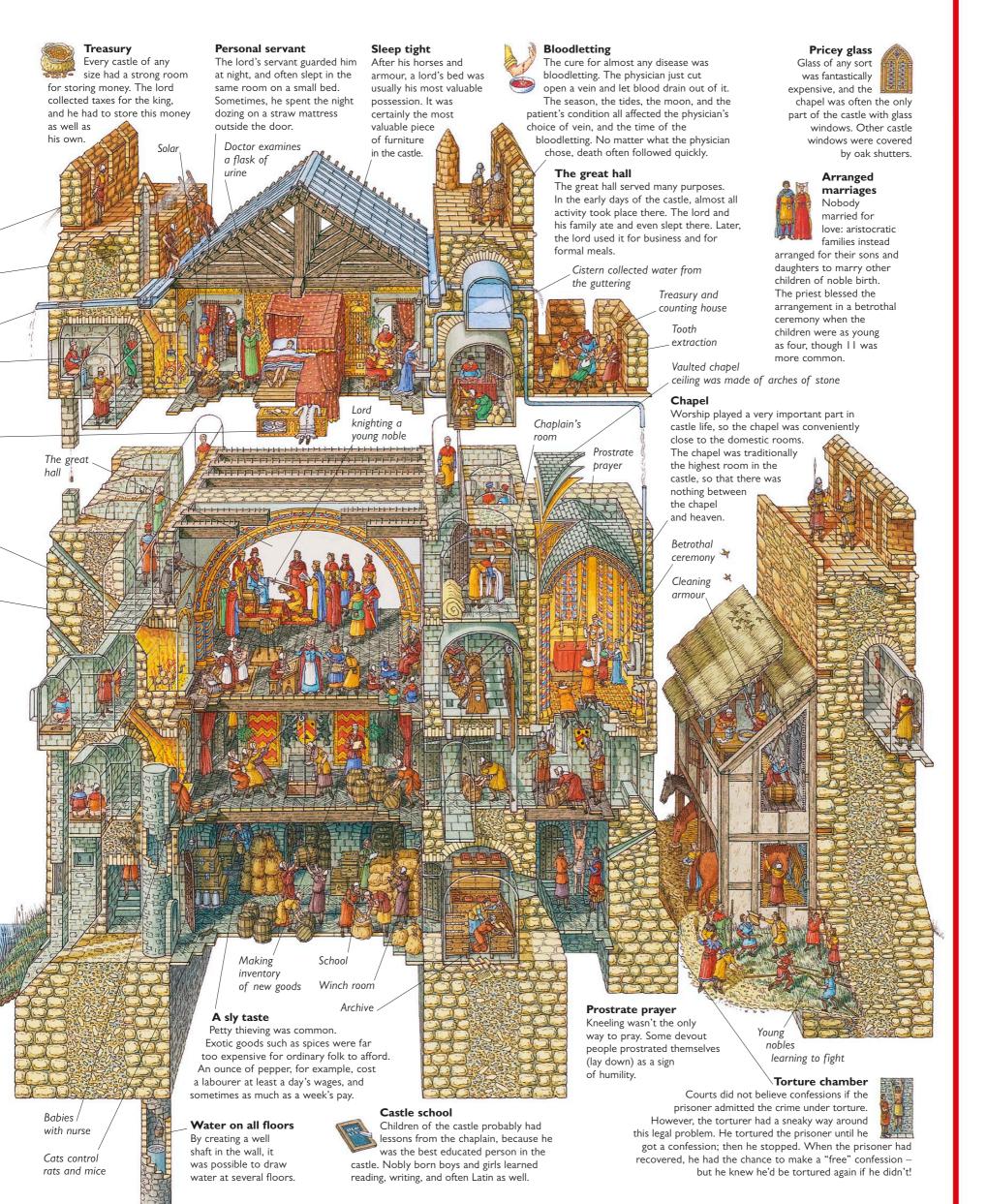
Leper

Leprosy sufferers were outcasts even among beggars, and they carried bells or clappers to warn of their approach. Everyone was so afraid of infection that they would not touch a lener. but threw food instead.



This cunning target was good practice for the joust. Originally just a shield fixed to a post, it evolved into an elaborate, pivoted device with a counterweight that could knock the rider from his horse.

Sewage buildub in moat



Food and feasting



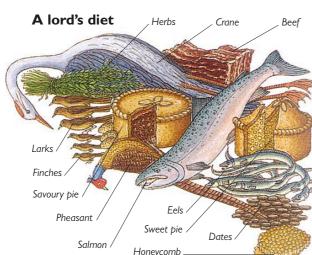
AT FESTIVALS, or when the lord had noble guests, it was a time for feasting in the castle. The kitchens worked day and night, and walls

echoed with crackling fires and the songs of minstrels.

The menus for castle banquets seem odd today. Now, we serve different sorts of food – such as fish, meat, and dessert – in individual courses. But castle cooks mixed sweet and savoury. In a single course, roast heron and a pig's head might share the table with pike and a sickly sweet pie made of cream, eggs, dates, and prunes.

Wealthy people enjoyed spicy food, but the cook did not use spices to hide the taste of rotting ingredients. In fact, food was often very fresh. Meals were spicy because this was the fashionable way to cook. Spices were very costly, and spiced food was a sign of wealth and luxury. So too were salt and sugar.

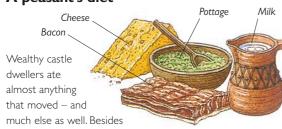
What's on the menu?





The fool or jester was a specially privileged entertainer. Traditionally his colourful outfit made fun of fashionable clothes Wealthy and powerful people allowed the jester to tell funny stories or sing rude songs about them. However, there was a sinister side to their laughter. Nobody took the jester seriously because often he suffered from mental illness.

A peasant's diet

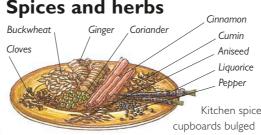


all manner of fish, beef, pork, and lamb, a feast might feature birds of every size, from herons and cranes down to larks, thrushes, and even finches. These made their entrance in pies, or simply roasted. In contrast, poor people had a simple and boring diet. They ate mainly bread and pottage (thick vegetable soup) with a little bacon, milk, and cheese.

are not respectable

Below the salt

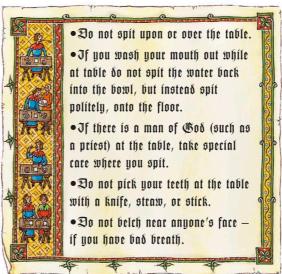
Castle cooks used no salt to season the food. Instead, lucky diners helped themselves from a boat-shaped salt cellar. This was placed in front of the lord, separating him and his family and guests from others at the table. The salt became a measure of social status, and even today, describing someone as "below the salt" means they



with exotic flavourings. The list above includes some that we would not call spices today.

Table manners

Books of table manners gave detailed information about how to behave at the feast. Here are a few useful tips from a 15th-century manuscript:





Trenchermen

Food was not served on plates. Instead, everyone had a trencher - a thick slice of stale bread - or shared one. Servants placed food on the trencher. After the meal, a servant called a ewerer brought water for the lord to wash his fingers.

> Nobleman shaving by rubbing his chin with a pumice stone

Not so subtle

To end each course, servants brought in an elaborate dish called a subtlety. This was more like sculpture than food, and was crafted from sugar. Subtleties sometimes had religious themes, with worthy inscriptions. Often they represented natural scenes such as a hunt.

Servants dressing nobleman

Musicians

Roast peacock In the grander castles, music might accompany the whole meal, but usually the musicians played only between courses.

Castle stream

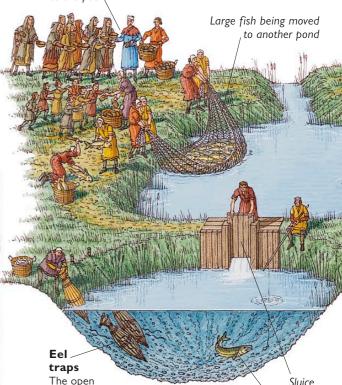
The castle moats were not just a defence against mining and a source of fish - they had many other uses, too. For instance, game birds bred on artificial islands in the ponds, and reeds and rushes growing on the banks provided thatching materials.

The supply of fish was so important that some castles had an elaborate series of ponds separated by dykes, and linked by ditches. Sluices (sliding shutters) controlled the flow of water between the different pools.

Left-over trenchers being handed out to the poor

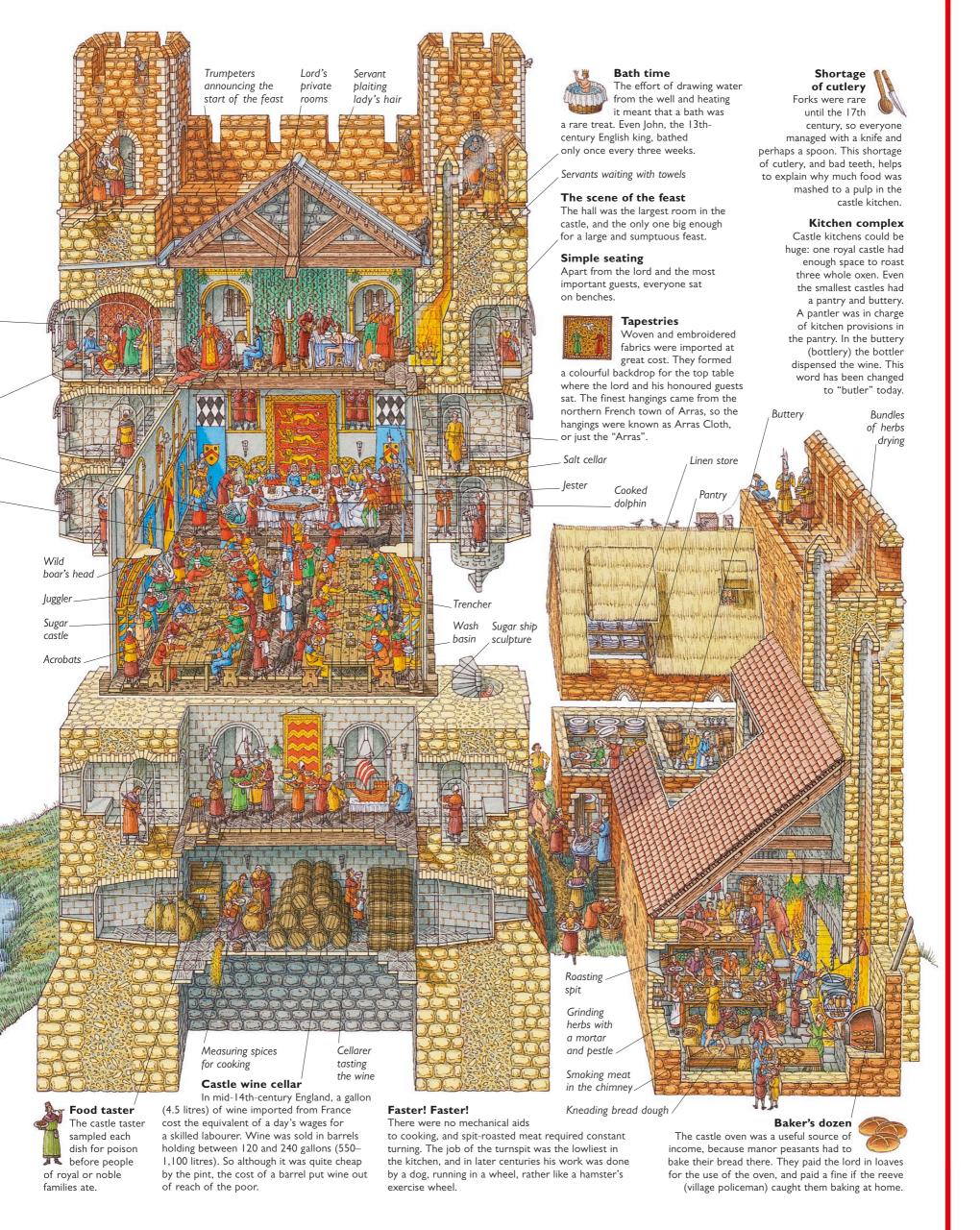
Gon' fishin'

Fish in the ponds were farmed, and usually the lord's property, but the castle moat was often open to anyone with a pole and a hook. Sometimes certain villagers had fishing rights: in one manor only pregnant women were allowed to fish.



ends of the wicker eel traps had inward-pointing canes. The eels could swim in, lured by pieces of rotting meat, but could not escape.

Pike



Entertainment



CASTLE LIFE WAS SOMETIMES COLD.

often uncomfortable, but never boring. There was always some task to attend to, and when

the day's work was done, the lord and his family amused themselves with sports. Two favourites were hunting and jousting.

Hunting took many forms, and some still continue today. The most noble was hawking. The hunter sent tamed birds of prey, such as kestrels, to swoop down and capture smaller birds. Hunting with dogs was popular too. The hawks, dogs, and other hunt animals were highly prized, and they lived a better life than many poor people.

A jousting tournament was the most glamorous sport, though. It was an event in which knights charged at each other on horses. Lowering long lances as they drew closer, each aimed to knock the other off.



Let battle commence

The tournament started as mock warfare, with rival knights fighting over a wide area. The battles destroyed

crops and killed warriors, and many kings tried to ban them. Gradually, though, rules evolved to make the tournament safer. By the mid-14th century it had become a formal contest featuring armoured knights charging at each other on horseback

Hawking

Swinging bait to recall hawks

Royal and wealthy castle dwellers considered hunting with a bird of prey the finest of sports. The trained birds lived like kings: they perched on their owners' wrists, and travelled everywhere with them – even to meals and to church.



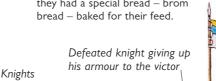
Tournament armour

Not much is known about 14th-century tournament armour, as most existing pieces date from the 15th and 16th

centuries. Early jousting helms may have been slightly thicker to withstand the impact of an opponent's lance, with a reinforcing plate below the eye slits. In addition, a long solid gauntlet (glove) called a manifer may have been worn.



Hunting was an important part of castle life, and hunting dogs were treated as well or better than many humans. They lived in heated kennels, and they had a special bread – brom bread - baked for their feed.



Successful knight's

pile of winnings



"It's behind you!"

Both adults and children enjoyed the puppet shows which travelling minstrels and players performed on a makeshift stage. The figures

were glove puppets, and though the show resembled a Punch and Judy show, these characters did not appear until the 16th century in Italy, and later in England.

Woman doing embroidery.

Women playing a harp and a psaltery

Chivalry

Knights were all supposed to obey a code of good conduct: a set of rules for gentlemen. The code, called chivalry, demanded that the knight should be brave, truthful, godly, gentle, faithful, and fearless. Chivalry also meant behaving honourably towards women. However, the laws of chivalry only applied to noble-born Christian people. They did not protect "heathens" (non-Christians), villeins, and other peasants.

Ladies waving to knights



Well-off barons and knights employed one

or more heralds to help them at the joust. A herald had many duties, but the most important at the joust was to act as a representative for his master.

More lances

Lances could be elaborately decorated with bright colours. The sound of splintering lances delighted the audiences, and when one heroic knight got through 300 decorated lances in a single day, he had to start on his unpainted ones.

> Herb Defeated knight held garder or ransom in victor's tent Tents of combetitors

> > Sally port (small door to outside)

Heralds announce arrivals of

Drive on the right

Knights in the joust always passed to their opponent's left, so the left hand side of the suit of armour was much more heavily reinforced than the right.

Trumbeters

Fatal fights

iousting

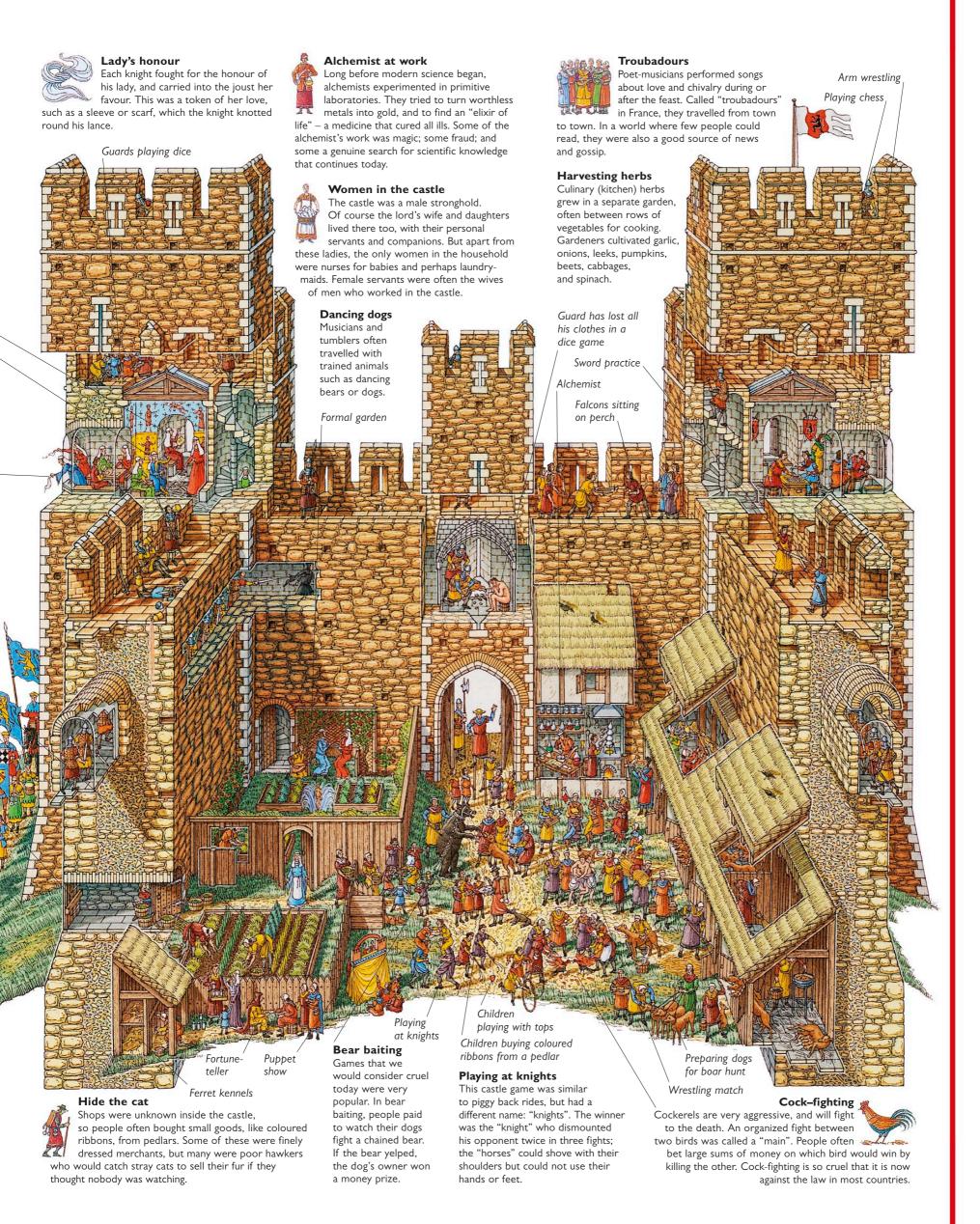
There were deaths at knight for joust most tournaments, but some were worse than others. At a French tournament held in 1240, many knights taking part suffocated from heat and dust.

Knight's helmet being removed

Sauire carrying knight's helmet

Collecting the winnings Joust rules varied, but

often the defeated knight lost his valuable armour and horse, and could even be taken prisoner and held to ransom. This meant that tournaments could be very profitable for skilled or cunning warriors.



Livestock and produce



SUPPLYING THE CASTLE with food was a major task. When the lord was at home there were up to two hundred hungry

people to feed. Much of the food came from the manor – the land under the control of the castle and its lord. The lord of the manor owned most of the land. but he allowed his subjects – the local people – to farm some of it. In exchange, they had to cultivate the lord's fields, called the demesne lands.

The changing seasons controlled everyone's diet. In summer and autumn there was plenty of fresh food. However, in winter food for animals was scarce, so the villagers slaughtered many of their pigs, sheep, poultry, and cattle at the end of the autumn. To stop the meat rotting, they preserved it in salt or by smoking. Other foods, such as beans, they preserved by drying. A few foodstuffs, such as apples, grew or lasted right through to the spring.

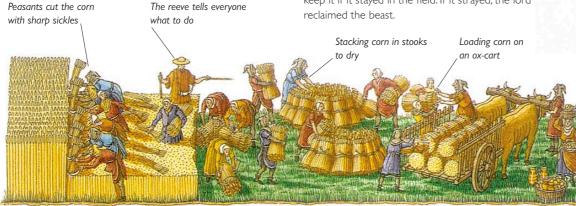
Carrier pigeon

Message secured Pigeons could carry messages faster than the speediest horse. With a message tied to one leg, the birds could find their way back to the castle from hundreds of miles away. So with a basket of pigeons a spy could send messages back to the castle about the enemy's strengths and weaknesses

Sheep



Weedy medieval sheep produced only a sixth of the wool of today's sheep. Shearing (clipping) them produced matted fleeces of wool, which fetched a high price abroad. The wool trade was important to England for hundreds of years.



Tax demand

Most people living on the lord's manor had to pay a bewildering array of charges, fees, and taxes. Here are a few examples:



for the right to collect

firewood on the

for the right to live in a house

on the lord's land





for the right to graze animals in





lord's horses



to carry goods

through the forest

upon death a family had to give

the lord the dead

man's best anima

Boon day

At harvest time, the lord called a "boon day", and every able-bodied person had to help in cutting, turning, and stacking the hay. Cutting the hay and corn was very hard work, but it had its rewards: the villagers were given a large meal, and often all the ale they could drink. At the day's end, there were amusing harvest traditions. A sheep was released into the stubble, and the villagers could keep it if it stayed in the field. If it strayed, the lord reclaimed the beast.



Herbage

The grass that grew on the banks at the foot of the castle wall was not wasted.

This pasture was called herbage, and villagers paid the lord a fee to graze their flocks there.

During the winter when grass grew slowly, cows had to eat hay from the stack. They had huge appetites, so most castles kept only enough cows for breeding in the spring. A few, though, kept extra cattle for milking.

Acorn feast

Pigs cost almost nothing to keep, because they did not need feeding: they scratched for food in the forest. However, feeding hogs acorns fattened them up nicely, and roast boar was a favourite dish for the lord

Slaughtering pigs

Tools and carts The castle blacksmith and carpenter made every tool and implement the castle needed. The tools and carts were together called "deadstock", to distinguish them from the animals - the livestock.

> Dumping offal (animal entrails) was illegal. Ale did not keep

well, so brewing went on all the time. The castle brewed some of its own ale, but also bought barrels of ale in the market.

To satisfy the thirsty occupants of the largest castles, the carter hauled wagon loads of ale through the castle gates!

More ale!

Slaughterhouse

For cooking and heating, every castle needed fuel. Villagers and servants collected firewood, taking care to take only dead or fallen timber: healthy

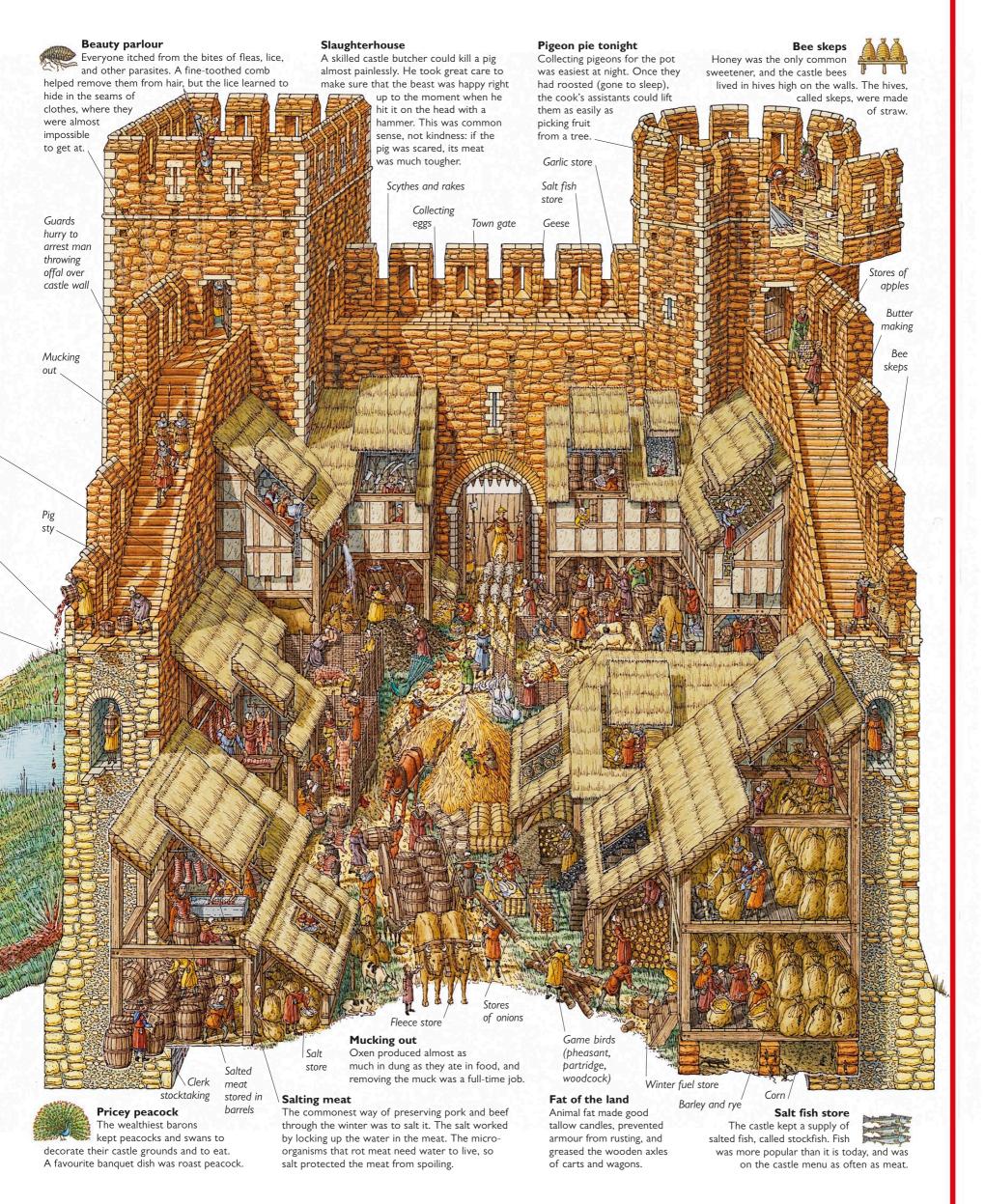


No dumping

Sheep grazing on grassy bank

Disposing of rubbish was a problem in a castle. Much of the rubbish was just tipped over the walls into a stinking heap in the castle ditch. Flies attracted to the dump caused health

problems when the castle was near a town.



Munitions and punishment

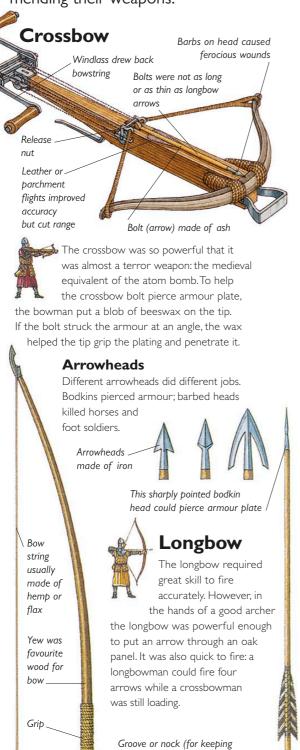


CASTLES WHICH PROTECTED TOWNS

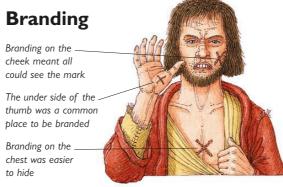
often had a second entrance, rather like a back door to a house. This "town gate" was

a convenient way in and out of the castle. Grisly sights greeted the traders and troops who passed through the town gate. Staring down from pikes high on the walls were the rotting heads of executed traitors. Below in the ditch stood the gallows and pillory. Like the severed heads above, they reminded town folk of the severe punishments for breaking the law.

In the shadow of the town gate were the butts. These were targets where every able-bodied man had to practise his archery skills each week. There were preparations for warfare inside the castle walls, too. When they weren't rehearsing their fighting skills, the castle garrison were busy laying in stores and ammunition, or mending their weapons.



arrow in place on bowstring)



Branding - burning marks on a criminal's body - was the punishment for some offences. A criminal branded on the hand with "M" (for malefactor, or evil-doer) could not hide his guilt. The sentence was carried out immediately by an official with a hot branding iron.



The punishment for prisoners who refused to plead (either admit or deny their guilt) was to be crushed or pressed to death. It was a slow and agonizing death, and many begged visitors to jump on the boards so that they would die more quickly.

Finger pillory



The brisoner was trabbed by his fingertips

For the most trivial offences, such as drunkenness and rowdiness. the prisoner might be confined in a finger pillory, which trapped just the fingertips. This punishment was also used for unruly schoolchildren.

Execution was the penalty for serious crime; only very minor offences had less severe punishments. Executions were by hanging: strangulation with a slip-knot. It was a slow death, and on the way to the gallows (the frame from which the rope hung) many victims begged their friends to hasten death by pulling on their legs.

Kev to turn The penalty for minor crimes, such windlass on as selling underweight goods, was a spell in the pillory. This was a wooden structure with holes to grip the offender's head and hands. For slightly more serious offences, such as spreading false rumours, the prisoner's ears were nailed back to the boards.

Practising marksmanship

Windlass to pull the mangonel arm down to the firing position

Training in archery started in boyhood, with a small bow and a nearby target. However, men had to stand more than 200 m (220 yards) from the target, and used much more powerful bows.

Iron-framed vett **9** Drawing

The penalty for treason (plotting against the king) was to be "hung, drawn, and quartered". When the victim was half-dead, the hangman took him down, and cut out his insides. The hangman then held up the person's heart, and shouted "Behold the

Quartering

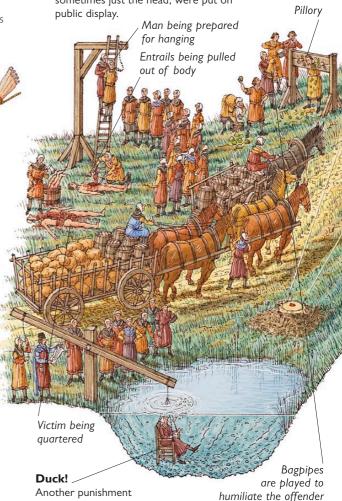
was ducking in the moat

or village pond. The offender was seated in

a "ducking stool" and lowered into the water.

heart of a traitor!"

The final stage of a traitor's fate was to be quartered: chopped up into four pieces. The quarters, or sometimes just the head, were put on



More ammunition

For accurate firing, the mangonel needed carefully cut stones. Weight was important,

because a stone that was too light would travel beyond the target; heavier stones fell short.

The only war engine which could be operated from the top of a castle tower

Mangonel



their longbows carefully, unstrung in racks. The yew bowstaves were not as costly as crossbows, but they were still valuable. A good bow would cost an archer between three and six

Hanging in chains

For particularly unfortunate criminals, punishment didn't end on the gallows. The

blacksmith riveted the corpse into "chains" – an iron framework - and the body was displayed hanging from a gibbet (beam) to deter others from doing wrong.

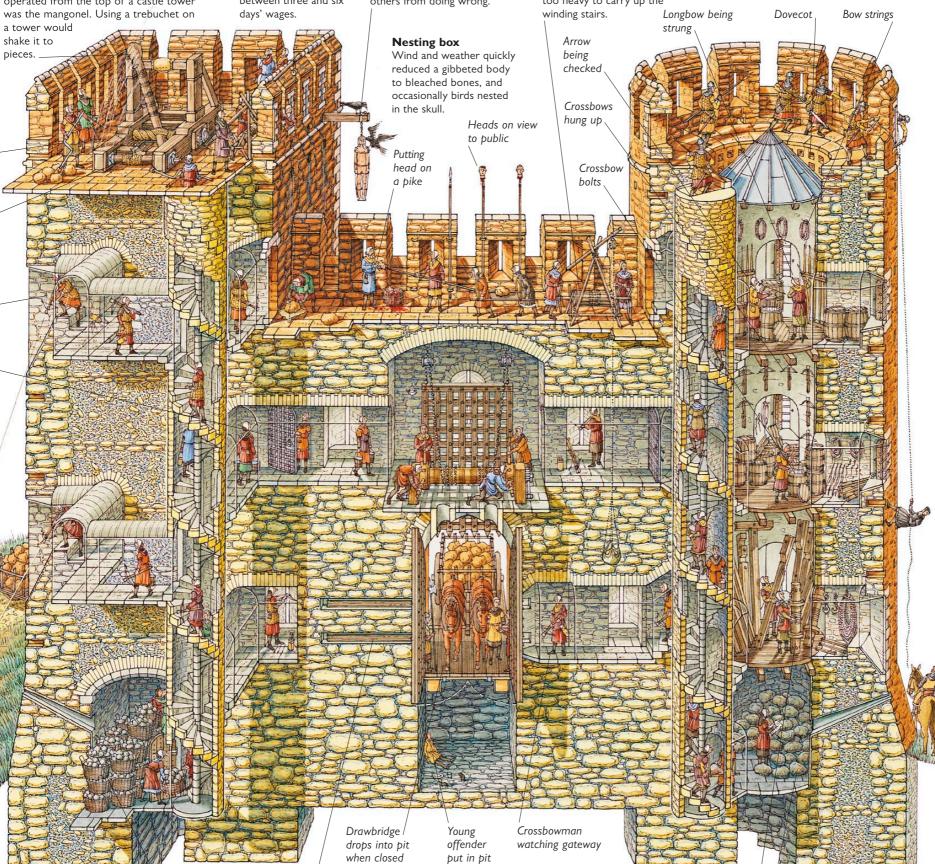
Practice arrows

Instead of the sharp, armour-piercing points used in warfare, practice arrows had blunt tips.

Winching up rocks

A simple windlass helped the garrison lift rocks to supply the mangonel: they were too heavy to carry up the

Getting ahead The heads of traitors decorated the castle battlements above the gates as a warning to others who plotted against the king. The heads looked out over other public places too, such as the entrances to London Bridge over the River Thames. There they were lightly boiled before a dip in preservative tar.





Spiral staircases

In most castles the stairs spiralled clockwise as they rose. This allowed a defender to retreat up the stairs while swinging his sword with his right hand. But the centre-

Store of small

throwing at the

enemy

stones - for hand

post blocked the attacker's sword hand, so he had to lean round the corner to wield his sword.

called drawbars reinforced the doors when they were shut. The drawbars slid across behind the door, and when out of use they were stored in

slots built into the

gatehouse wall.

Drawbars

Stout oak beams

the bars.

Shut the yett! Strong internal doors were made from a lattice of iron. Called "yetts" in Scotland, the doors were often more like gates. In English castles, thick oak panels

filled the gaps between

Drawbridge pit

The drawbridge dropped into the pit as it opened, so the pit had to be deep. In its normal position, the drawbridge closed off the pit, which made a useful extra punishment cell. A few drawbridges were booby trapped: releasing a trapdoor pitched unwanted visitors into the pit.

Trebuchet parts in storage

Large stones for trebuchets

Bowstrings

When they weren't fighting, archers took the strings off their bows, and kept them dry in a pouch or inside their shirts. In the castle, spare bowstrings were probably hung coiled on a dry wall.

GLOSSARY

Arrow loops

Narrow slit in castle walls for firing

Ashlar

Building stone neatly trimmed

Atilliator

Skilled castle worker who made

Bailey

Open area enclosed by the castle walls.

Battlements

Jagged stonework protecting the wall-walk.

Boon day

Compulsory work-day when manor workers helped in the lord's fields.

Buttery

Room where wine was dispensed from barrels.

Butts

Targets for town archery practice.

Chivalry

Rules of polite and honourable behaviour that knights were supposed to follow.

Constable

An officer who kept the peace; a castle policeman

Crenellations

Jagged protective stonework at the top of the castle wall.

Crenels

Low sections of the battlements.

Daub

Mud coating – much like plaster – smeared on wattle.

Drawbridge

A bridge or roadway across a moat or pit that lifted to make crossing impossible.

A fight to the death with formal rules to settle an argument.

Embrasures

Arrow loops in the merlons.

Worker who brought and heated water for the knight and his family to wash in.

Forebuilding

Extension to the keep, guarding its entrance.

Herald

Knight's assistant, representative at the joust, and expert advisor on heraldry.

The rules controlling the use by noblemen of the distinctive patterns used on their flags, armour, and shields.

Hoarding

Defensive wooden extension to the castle wall-walk.

Hoarding holes

Holes in the castle walls to support the hoarding.

JoustingKnight's war game played on horseback. Armoured opponents charged at each other, each using his lance to knock the other from the saddle.

Fortified tower containing living-quarters, at the heart of the castle.

Long pointed pole used as a weapon in war and jousting.

Mangonel

Siege engine, which used the power in a twisted cord to fire missiles.

High sections of the battlements. Moat

Water-filled ditch around the castle.

Murder holes Holes in a floor, which allowed archers to fire into the room below.

Oubliette Tiny cell where prisoners were left to die.

Pillory

Punishment frame that usually gripped a victim's hands and head while onlookers

Portcullis

Sliding grid of stout wood used to guard castle entrance.

Putlog holes

Hole in the castle wall used to support scaffolding.

Quarrel

Arrow for a crossbow.

Ouintain

Target for jousting practice.

Siege

The surrounding of a castle to cut off its supplies and make the occupants surrender.

Siege engine

A machine for firing missiles at a castle, or for scaling its walls.

Squire

Young trainee knight who served as an assistant to an older knight.

Tournament

Knight's war-game that imitated real battles; often used to mean jousting.

Trebuchet

Giant siege engine in the form of a boulder-firing catapult.

Troubadour

Professional musician who usually travelled fom town to town.

Turning bridge

Drawbridge pivoted in the middle.

Common labourer living on a knight's estate in near-slavery.

Wall-walk

Footpath around the top of the castle walls.

Wattle

Woven panel of twigs used in building.

INDEX

alchemist, 23 ale, 24 ale conner, 16 almoner, 18 alms, 18 ammunition, 27 archers, 10, 11, 14, 26 armour, 16, 18, 22 armourer 16 arrow loops, 14 arrowheads, 26 arrows, 9, 11, 26, 27 ashlar, 14, 15

bailey, 8 baron, 12, 22 bate, 15 baths, 21 battering ram, 11 battlements, 14 bear baiting, 23 blacksmith, 14. 24 bloodletting, 19 boon clay, 24 bowstrings, 27 branding, 26 butcher, 25 butts, 26

candles, 17, 25 carpenter, 17, 24 carrier pigeon, 24 cattle, 24 chain mail, 16 chandler, 17 chapel, 19 chivalry, 18, 22 cock-fighting, 23 constable, 12, 13 crane, 15 crenellations, 14 crenels, 9 crossbow, 11, 17, 26

D

daub, 14 defence, 8, 10-11 doors, 11, 26 drawbars, 27 drawbridge, 9, 27 ducking, 26 dungeons, 12, 13 dyeing cloth, 17

feudal system, 12 firewood, 24 fish, 20, 25 food, 20-21, 23, 24 fool, 8, 20 freeman, 12

G

gallery, 18 gallows, 26 games, 23 garrison, 12-13, 26 gatehouse, 8, 9 gates, 13, 26

glass, 19 gong farmer, 8, 13 great hall, 19, 21 guard, 8, 12

hangings, 18, 21 harvest time, 24 hawking, 22 heraldry, 18 heralds, 22 herbage, 24 hermit, 16 hoardings, 9, 11 homage, 12 honey, 25 hung, drawn, and quartered, 26 hunting, 22 hurdle-maker, 16

illuminated manuscripts, 18

jester see fool "Jim Crow", 13 jousting, 18, 22, 23 judge, 15

keep, 8, 16 kitchens, 21

latrines, 9, 12, 13 lead. 9 leper, 18 lice, 25 licence to crenellate, 14 lime, 14, 15, 16 longbow, 26, 27 look-out, 13 lord, 8, 12, 13

knight, 8, 12, 16, 18, 22, 23

machicolation, II mangonel, 10, 27 mantlet, 10 marriage, 19 masons, 14 medical treatment, 18 mill 17 mining, 10 moat, 8, 20 mortar, 14 multure, 17 murder holes, 13

Ν nails, 14

0

oubliette, 13 P

page, 8 peasant see villein pedlars, 23 pigs, 24 pillory, 6, 26 plumber, 16

portcullis, 9, 13 potter, 17 priest. 8 prisoners, 12, 13, 19, 26 punishment, 26–27 puppet shows, 22 putlog holes, 15

ransom prisoners, 12 rolls (court documents), 15 roofing, 9, 15 rubbish, 24

S

sally port, 11 salt, 20 salt-cellar, 20 salting meat/fish, 25 sappers, 10 sawyers, 14 scaffolding, 15 school, 19 sheep, 24 shingles, 15 siege, 10-11 siege engine, 10 silver plate, 18 solar, 18 soldiers, 10, 11, 12 spinning wheel, 16 squint, 13 squire, 18, 22 staircases, 27

tailors, 16 tapestries, 18, 21 taxes, 15, 19, 24 thatch, 15 toilets, 12; see also latrines tools, 14, 24 "tortoise", 10 torturer, 19, 26 town gate, 26 treasury, 19 trebuchet, 10, 11 troubadours, 23

villein, 12

W

walls, 8, 15 wall-walk, 9, 11 watchmen, 9 watch-turret, 9 wattle, 15 well. 8, 15, 19 wine, 21 women, 23 wool, 17, 24 worship, 19

Acknowledgements

Dorling Kindersley would like to thank the following people: Constance Novis for editorial assistance; James Hunter for design assistance; Lynn Bresler for the index.







