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Wouldn't Want to...

VICTORIAN MINER



Written by John Malam Illustrated by David Antram





Introduction

It is the year 1869, and Britain is now the world's first industrial nation. In the first half of the 1700s Britain was an agricultural country, and most people lived and worked in the countryside. Since then, things have changed. Factories were built in towns, and people moved off the land to work in them. Towns such as Manchester. Sheffield, Birmingham and Glasgow expanded and became cities, where noisy, dirty factories turned out all kinds of goods.

In 1851, the Great Exhibition was held in London, But this magnificent show wasn't just about the goods made by Britain's factories – it was about the machines that produced them, and the power that made the machines work. As visitors entered the exhibition building they passed a piece of coal - a huge, black block weighing 24 tonnes, dug from a mine at Staveley in Derbyshire. It reminded people that the great advances of the industrial age could not have happened without coal.

Coal is the fuel that powers the machines in factories. It drives steam trains across the land, and steam ships across the oceans. It brings light and heat to towns and homes. You are just one of an army of 100,000 miners, or 'colliers' working in Britain's coal mines, digging up around 100 million tonnes of 'black gold' a year. Your life is hard and often dangerous, and you soon learn that you really wouldn't want to be a Victorian miner - not for all the coal at the bottom of your local pit!

Child slavery! The bad old days

Pit shaft

waiting to

go down

Children in the mines:



opened and closed trapdoors to let coal wagons pass bu on underground trackwaus.

You don't know how lucky you are! Until 1842, children under the age of 10 worked below ground in Britain's coal mines. It is now, in 1869, illegal to send youngsters down the pit.

Some of the miners you work with began ' work as children or 'child slaves'. They tell you about the bad old days. There was no school for them. Instead, from the age of six they went out to work at the pit. For twelve hours a day, six days a week, children worked deep under ground in the dark, the cold and the damp.

Winding engine





BEARERS (usuallu older girls and women) carried heavy baskets of coal away from the coalface.





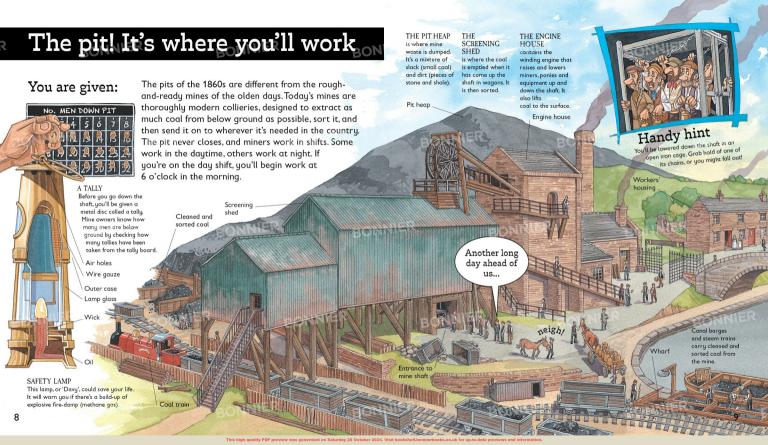
DRAWERS were children who pushed and pulled the loaded wagons.

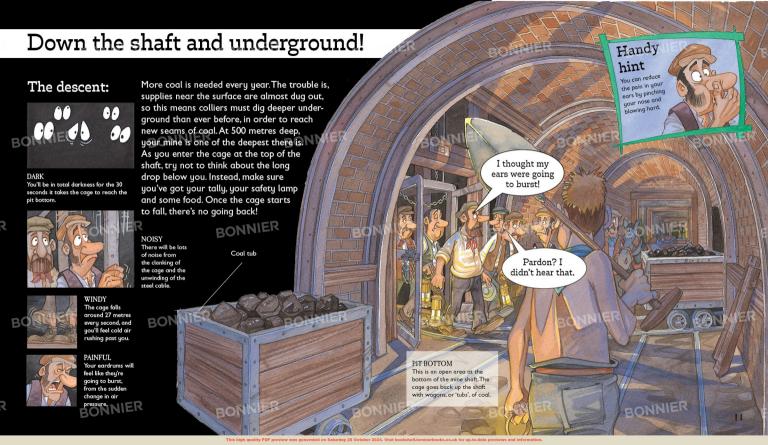


put lumps of coal into coal wagons by









Move along! Through the tunnels, NIER

Don't waste time at the pit bottom! Leave the cage quickly, before it is loaded for the journey back to the surface. You can forget about daylight and fresh air for the next eight hours. From the pit bottom you have to travel along a tunnel to the coalface. Miners on their way to the coalface say they're 'walking out'. It can be a long walk – up to 8 kilometres at some mines, especially those in the coalfield in north-east England, where the tunnels stretch out under the sea. It might take you up to an hour to reach the place where you'll be working.



You will need:

COOD ROOTS

made from tough leather, with hardwearing metal studs on the soles.



A DAMP CLOTH to hold against your nose and mouth so that uou don't breathe in too much coal dust.

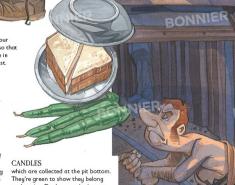
FOOD

Carru this in a little container. called a 'snap tin'.



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GOOD HEARING so that you hear the sound of oncoming traffic. A pit pony hauling a loaded coal tub won't stop for

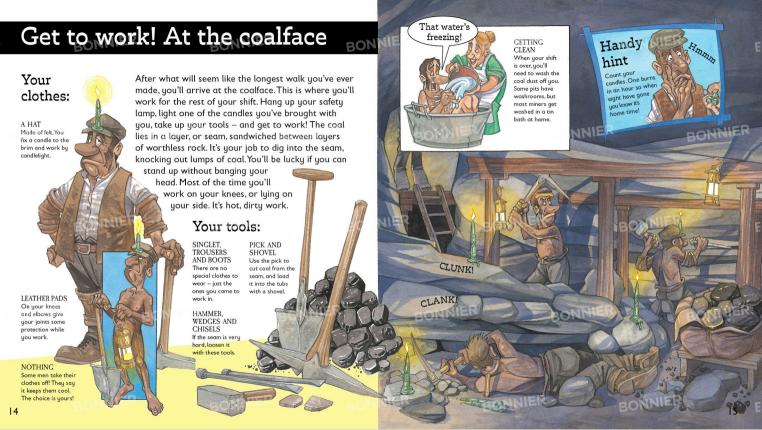


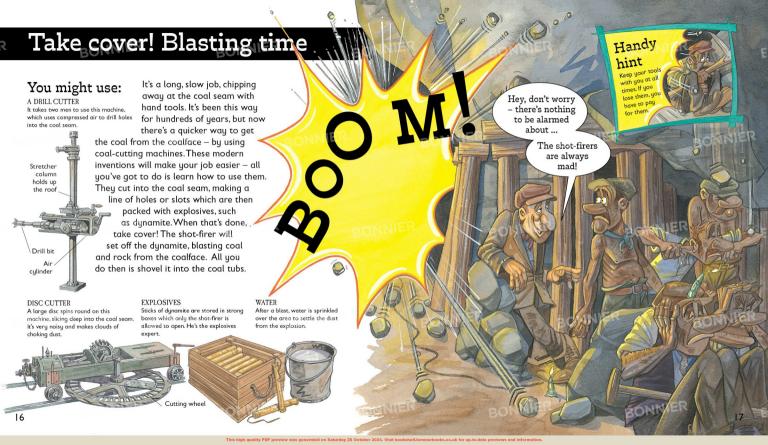
to the mine. Don't try and take one home or you'll lose your job.

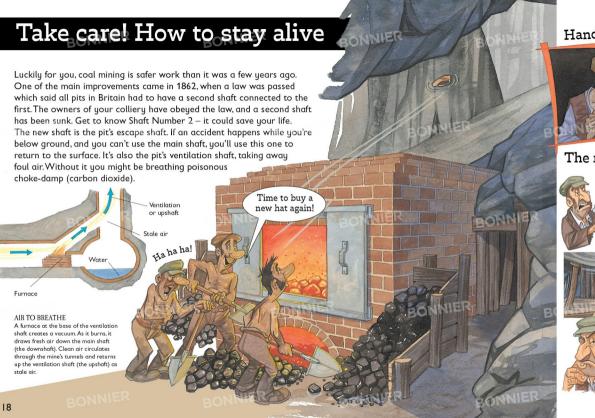
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It can't be much

further, surely...







Handy hint



If your safety lamp goes out, re-light it at once. If you see the gauze ground it alowing, and the flame getting brighter, that's telling you there's an explosive aas in the air and it's time to leave!

The rules:



NO SMOKING If uou're caught smokina or with matches underground. uou'll be fined. You could lose uour iob.



USE THE PROPS Be sure to use enough strong timber pit props to support the roof. If you don't, it might collapse.



AGE LIMIT Don't lie about your age in order to get work, or uou'll be fined according to the law. Remember. bous under 10 can't go down mines any more.

Help! Accidents do happen

The dangers are:



FLOODS happen when miners break into old, flooded tunnels. Can you swim?

200M



ROOF-FALLS are caused by explosions and weak pit props. They cause the most deaths and injuries.



EXPLOSIONS caused by coal dust and the dreaded fire-damp, could blow you and the mine to bits!



DEADLY GAS such as poisonous chokedamp, is mostly carbon dioxide, an invisible killer.

Even though uou're working at a modern pit, where every collier carries his own personal 'Davu', and some take canaries with them to sniff out chokedamp, accidents still happen. Some you'll get used to, such as minor cuts and bruises which happen every day. but others are far more dangerous. Pockets of gas can easily build up, and if you come across one you'll either be blasted to smithereens or left gasping for air. It's no wonder that most miners don't live much beyond their 49th birthday - about ten years less than the average age for men in Britain in the 1860s. Mining is bad for your health. Even after you leave the industry there are coal-mining diseases which might be with you for the rest of your life.

You might suffer from:



AMPUTATIONS Falling rocks and accidents with tools and machines might do this to uou.

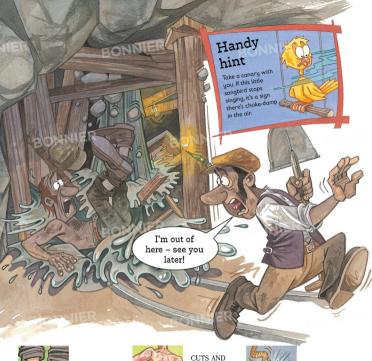


BLACK LUNG Coal dust in uour lungs will leave uou short of breath, and uour spit will be black.



NYSTAGMUS roll painfully around.

Years of working in poor light will make uour eues





REAT KNEE After years of kneeling and crawling, uour knees will be swollen and sore



BRUISES Everu miner gets these. Don't complain things could be a lot worse!



BROKEN BONES These are often caused by terrifying cage drops.

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Black gold! Preparing for sale

Although most of the time you'll be working below ground, you might find there are occasions when you'll work on the surface, such as when you're recovering from an injury. If that happens to you, you'll probably be put to work in the screening shed. It's a large building where the coal is sorted and made ready for sale. Most of the workers in here are women, but there are also men who are too old or too weak to go down the pit. The women, who in the Lancashire coalfield are known as 'pit brow lasses', move loaded coal tubs from the pithead to the screening shed. They tip the coal from the heavy tubs and it falls on to a metal screen – a big sieve which sorts valuable 'black gold' from worthless waste. It's hard, dusty work.

Women's work:



1 UNLOADING
Taking coal tubs from the cage when it comes to the surface and pushing them to the screening shed.



2 TIPPING Emptying the tubs on to a chute at the screening shed. Each tub holds around 275 kg of coal and dirt. Some 1,000 tubs a day are tipped.





4 SCREENING Agitating the coal as it falls down the screen, pushing slack and dirt through its metal bars.



5 SORTING
Picking over the
screened coal by
hand as it moves
on conveyor belts,
removing lumps of
stone.



6 CHIPPING Taking large blocks of coal from the conveyor belt and breaking them into smaller pieces by hand.



7 LOADING Working at the coal wharf, shovelling the cleaned and sorted coal into canal barges.

Hard times! Trouble at the pit

For many years, Britain's miners have demanded better pay and working conditions from the mine owners. In the 1840s miners in the coalfields of Northumberland and Durham went on strike, refusing to work until their demands were met. Then, in 1858, the National Miners' Union was formed. It's a trade union which looks after the miners who belong to it. You'll find that

most miners at your pit belong to the union. You and your fellow miners have decided to go on strike for better pay, and you hope that the union will help you. But be warned – the mine owners are a tough lot, and they'll try and find ways of keeping the pit working without you. Remember, if you're not working you won't be earning any money, so be prepared for hard times ahead.

Strike action:



PUBLIC MEETINGS

give you the chance to tell people why you are on strike.Try to get them on your side.

STRIKE FUND

Ask people in the street to give money to the miners.



NEWSPAPERS

will sometimes support the strike. If they won't, print your own leaflets and hand them out.

BLACKLEGS

Stop miners from other areas working at your pit



Don't forget the pit ponies: Dring them up to the surface, where they can enjoy fresh air, daylight and tasty grass. It's a sign you're prepared for a long strike.



The mining community

Your pit, like others in Britain, is at the centre of the local community. It provides you with work, free coal to burn on your home fire, and, most important of all, a weekly wage. In short, you cannot live without the pit, and neither can the rest of the community. Now that you are on strike, life will be hard. Since you're in the miners' trade union, you'll receive some strike pau, but it won't be as much as you were earning from your job, and it won't last long. And with little money in your pocket you won't be spending much in the local shops. A strike affects the whole of the mining community. One



Your family:



GAMES AND MUSIC Play charades with your family, sing in the colliery choir or play an instrument in the miners' brass band.



READING Catch up on stories you've been meaning to read, such as that new one about a girl called Alice who, like you, also goes under the ground.



CHURCH
Go to church (often called chapel) on
Sundays. Methodism is popular in many
mining communities.

Your recreation:



PRIZE VEGETABLES
You might grow vegetables and enter
them in competitions — long leeks and
giant onions are favourites.



DOG RACING
You might keep a racing greyhound
or a whippet. If you're a gambler you
could win – or lose – a lot of money!



PIGEON FANCYING
You might build a pigeon loft in your back yard where you'll keep a flock of racing pigeons.

Strike over! Back to work

BON

The strike has lasted six long weeks, and now it's time to return to work. A lot has been happening while you and your fellow workers have been on strike. Miners in other parts of Britain were on strike at their pits, too. For a short time, it looked as though the country was going to run out of coal. The mine owners knew they had to listen to the miners' demands. Officials from your trade union had many meetings with the mine owners, who eventually agreed to give you a pay rise. From now on you'll be earning eight shillings (40p) a week, which is a good wage for a manual worker. So, put your boots on, check your safety lamp, hold your head up high and get back to work Britain needs its coal miners!



NO HOUSE

The mine owners have threatened to evict you from your house, which they own.

NO FOOD

Your family is going hungry and you need to earn money



NO MONEY

The strike fund has run out of money, and you have none of your own.

NO WORK

Mining is the only job you know, and you won't get other work.



Keep smiling! The mine owners might have forced you back to work, but they haven't broken your spirit. Sing a miners' song as you march back to work.



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Glossary

Amputation The removal of parts of the body due to injury or disease.

Blackleg Someone who takes a person's job while that person is on strike.

Choke-damp A poisonous gas made mostly of carbon dioxide.

Coalface The part of the mine from which coal is dug.

Coalfield The area over which a deposit of coal is known to exist.

Collier Another name for a coal miner.

Colliery Another name for a coal mine.

'Davy' The popular name for the safety lamp invented by Sir Humphry Davy.

Dynamite A powerful explosive used to blast coal.

Fire-damp An explosive gas made mostly of methane.



Furnace A very hot fire, enclosed by brick walls.

Gauze Thin wire mesh.

Great Exhibition A display of goods made in Britain and abroad, held in London in 1851

Manual worker A person who works with their hands, such as a miner.

Methodism A Christian movement which began in 1739.

Pit Another name for a coal mine.

Pit heap A massive dump of stone, shale and slack.

Pit pony A pony used below ground to pull coal tubs.

Pit prop A strong timber support, used to hold up the roof of a mine tunnel.

Pithead The area on the surface immediately around the mine shaft.

Safety lamp A lamp which detected the presence of harmful gas in the air.

Screening shed The building inside which coal was sieved (screened) and sorted.

Seam A layer of coal.

Shot-firer The man who set off an explosion to loosen coal from the coalface.

Singlet A vest or undershirt.

Slack Small pieces of coal.

Strike When employees refuse to work until their demands for better pay or conditions are met.

Trade union An organisation which protects the rights of its members.

Vacuum A space from which the air is removed. This can cause fresh air to rush through and replace it, as in the way ventilation shafts work.

Wharf The place where coal was stored, ready to be taken away to be sold.

Winding engine The engine, usually powered by steam, which wound the cage up and down the mine shaft.



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