

First published in the UK in 2011 by The Salariya Book Company Ltd. This edition published in the UK in 2023 by Hatch Press,

an imprint of Bonnier Books UK

4th Floor, Victoria House

Bloomsbury Square, London WC1B 4DA

Owned by Bonnier Books

Sveavägen 56, Stockholm, Sweden

www.bonnierbooks.co.uk

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ISBN 978-1-80078-755

Printed in 2023





Wouldn't Want to...

VICTORIAN MINER



Written by John Malam Illustrated by David Antram



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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

waiting to

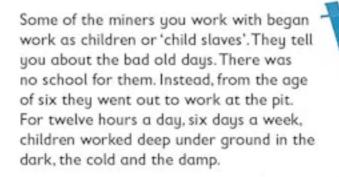
go down

Children in the mines:



TRAPPERS opened and closed trapdoors to let coal wagons pass by on underground trackways.

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.



Winding engine



Handy hint



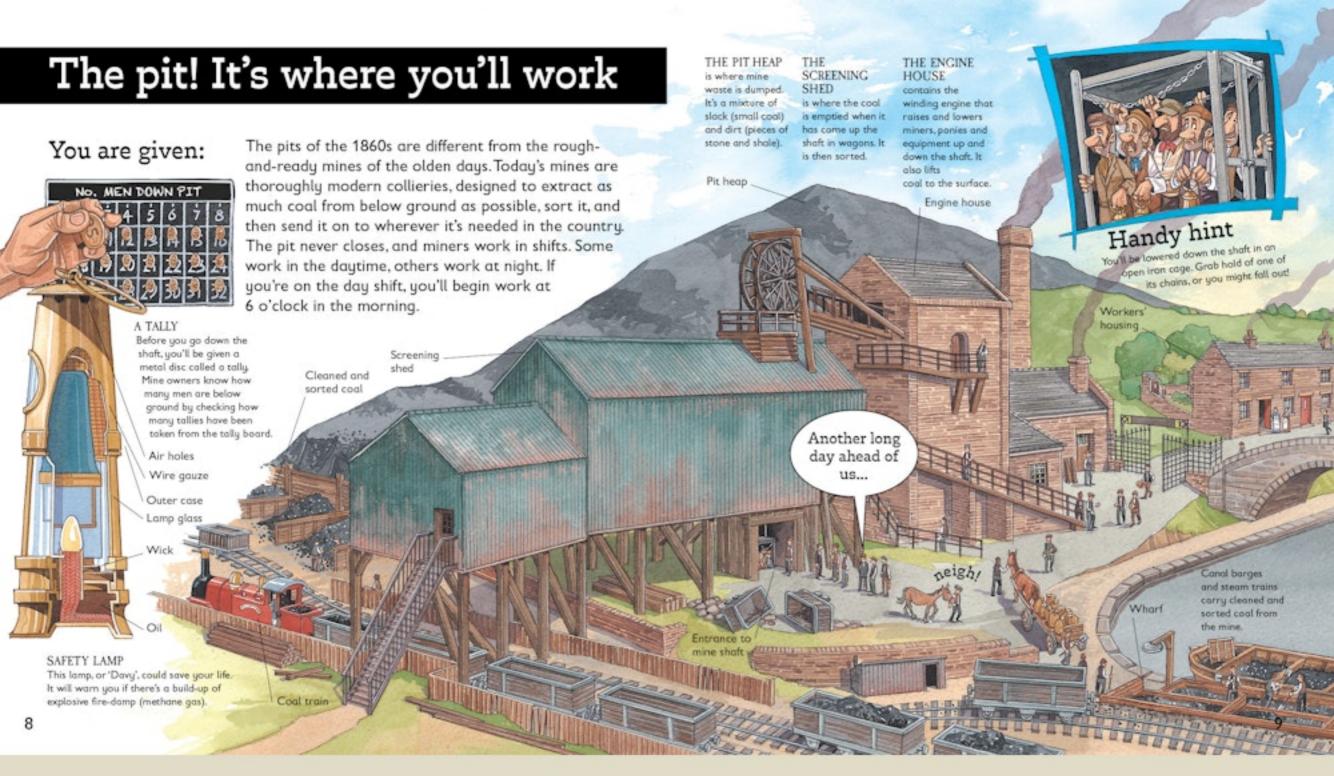
BEARERS (usually older girls and women) carried heavy baskets of coal away from the coalface.

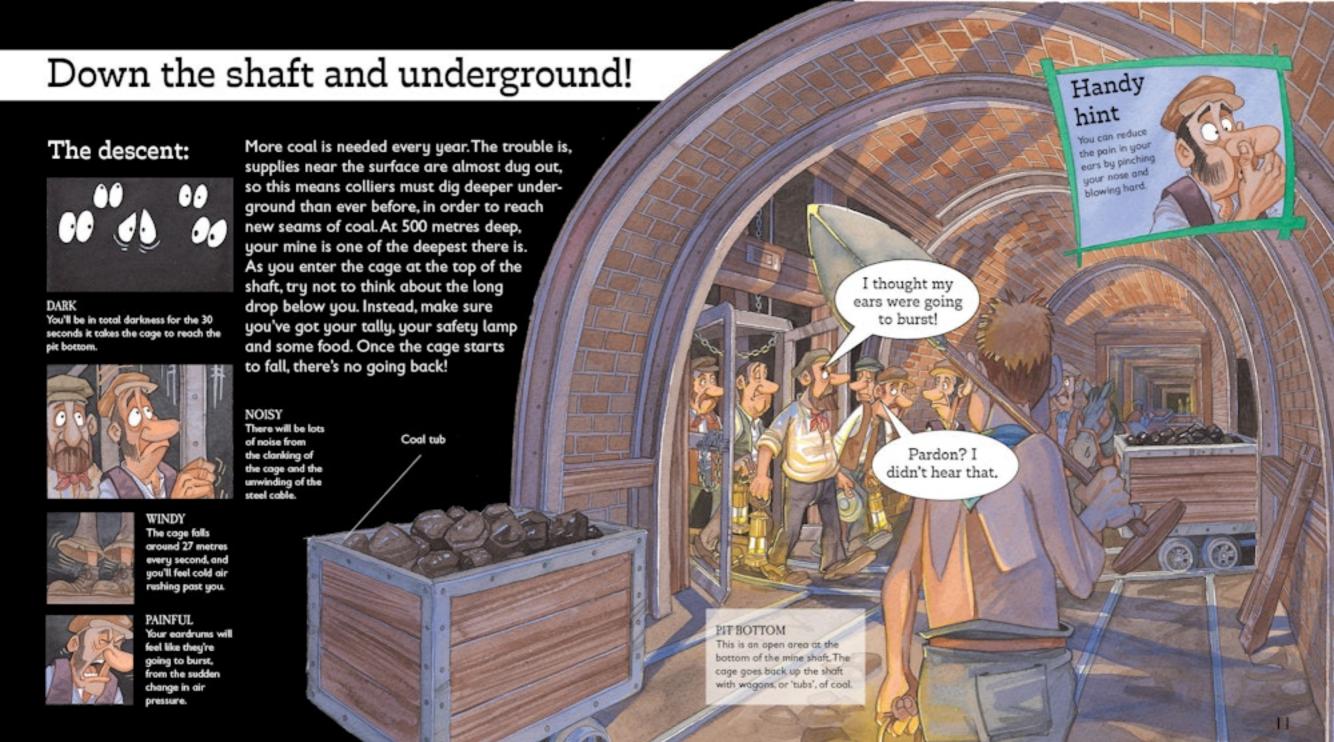


hand.









Move along! Through the tunnels

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:

GOOD BOOTS

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



CLOTH

to hold against your nose and mouth so that you don't breathe in too much coal dust.

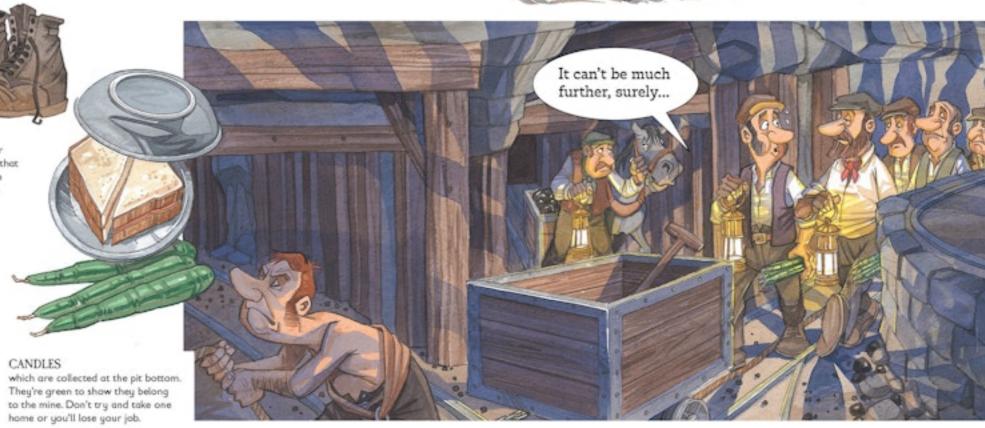
FOOD

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



GOOD HEARING

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

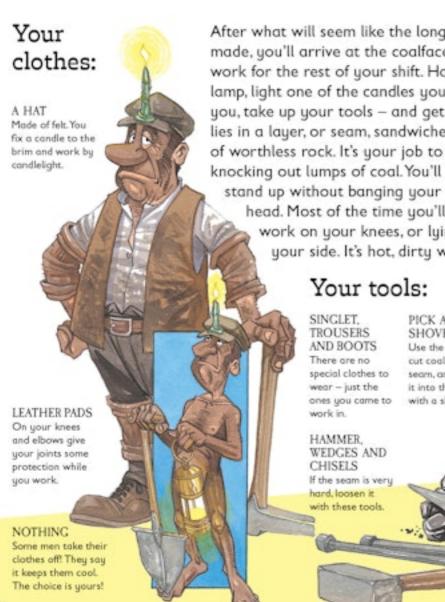


MANRIDING

hauls it to the coalface.

You're not

Get to work! At the coalface



After what will seem like the longest walk you've ever made, you'll arrive at the coalface. This is where you'll work for the rest of your shift. Hang up your safety lamp, light one of the candles you've brought with you, take up your tools - and get to work! The coal lies in a layer, or seam, sandwiched between layers of worthless rock. It's your job to dig into the seam, knocking out lumps of coal. You'll be lucky if you can

PICK AND

Use the pick to

seam, and load it into the tubs

with a shovel

cut coal from the

SHOVEL

head. Most of the time you'll work on your knees, or lying on your side. It's hot, dirty work.

Your tools:

SINGLET. TROUSERS AND BOOTS There are no special clothes to wear - just the ones you came to work in.

HAMMER WEDGES AND CHISELS

If the seam is very hard, loosen it. with these tools.



CLUNK!

CLANK

GETTING CLEAN

When your shift is over, you'll need to wash the coal dust off you. Some pits have washrooms, but most miners get washed in a tin bath at home.

Handy hint

Count your condies. One burns in an hour so when eight have gone you know it's home time!



Take care! How to stay alive

Luckily for you, coal mining is safer work than it was a few years ago.

One of the main improvements came in 1862, when a law was passed which said all pits in Britain had to have a second shaft connected to the first. The owners of your colliery have obeyed the law, and a second shaft has been sunk. Get to know Shaft Number 2 – it could save your life. The new shaft is the pit's escape shaft. If an accident happens while you're below ground, and you can't use the main shaft, you'll use this one to return to the surface. It's also the pit's ventilation shaft, taking away foul air. Without it you might be breathing poisonous choke-damp (carbon dioxide).

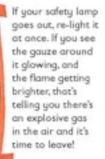
Ventilation

or upshaft

Time to buy a

new hat again!

Handy hint



The rules:



If you're caught smoking or with matches underground, uou'll be fined.

NO SMOKING

you'll be fined. You could lose your job.

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 you'll be fined according to the law. Remember, boys under 10 can't go down mines any more.



Furnace

AIR TO BREATHE

A furnace at the base of the ventilation shaft creates a vacuum. As it burns, it draws fresh air down the main shaft (the downshaft). Clean air circulates through the mine's tunnels and returns up the ventilation shaft (the upshaft) as stale air.



Help! Accidents do happen

The dangers are:



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



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 you're working at a modern pit, where every collier carries his own personal 'Davy', 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 you.



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



NYSTAGMUS Years of working in poor light will moke your eyes roll painfully around.



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:



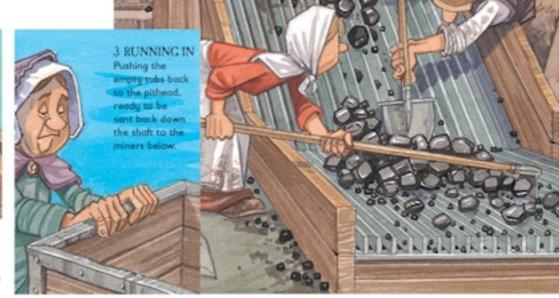
1 UNLOADING

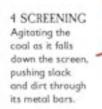
Taking coal tubs from the cage when it comes to the surface and pushing them to the screening shed.



metal screen

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.







Handy hint

Don't wander off Restiess workers are made to stand in a box to keep them in

their place.

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





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 pay, 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 chair or play an instrument in the miners' brass band.



READING

Catch up an 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

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.



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.

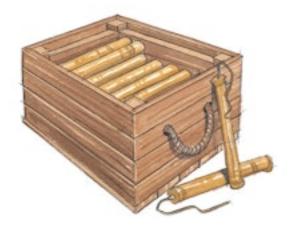
Collier Another name for a coal miner.

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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