

Hand icon
Become a **MASTER CRAFTSMAN**

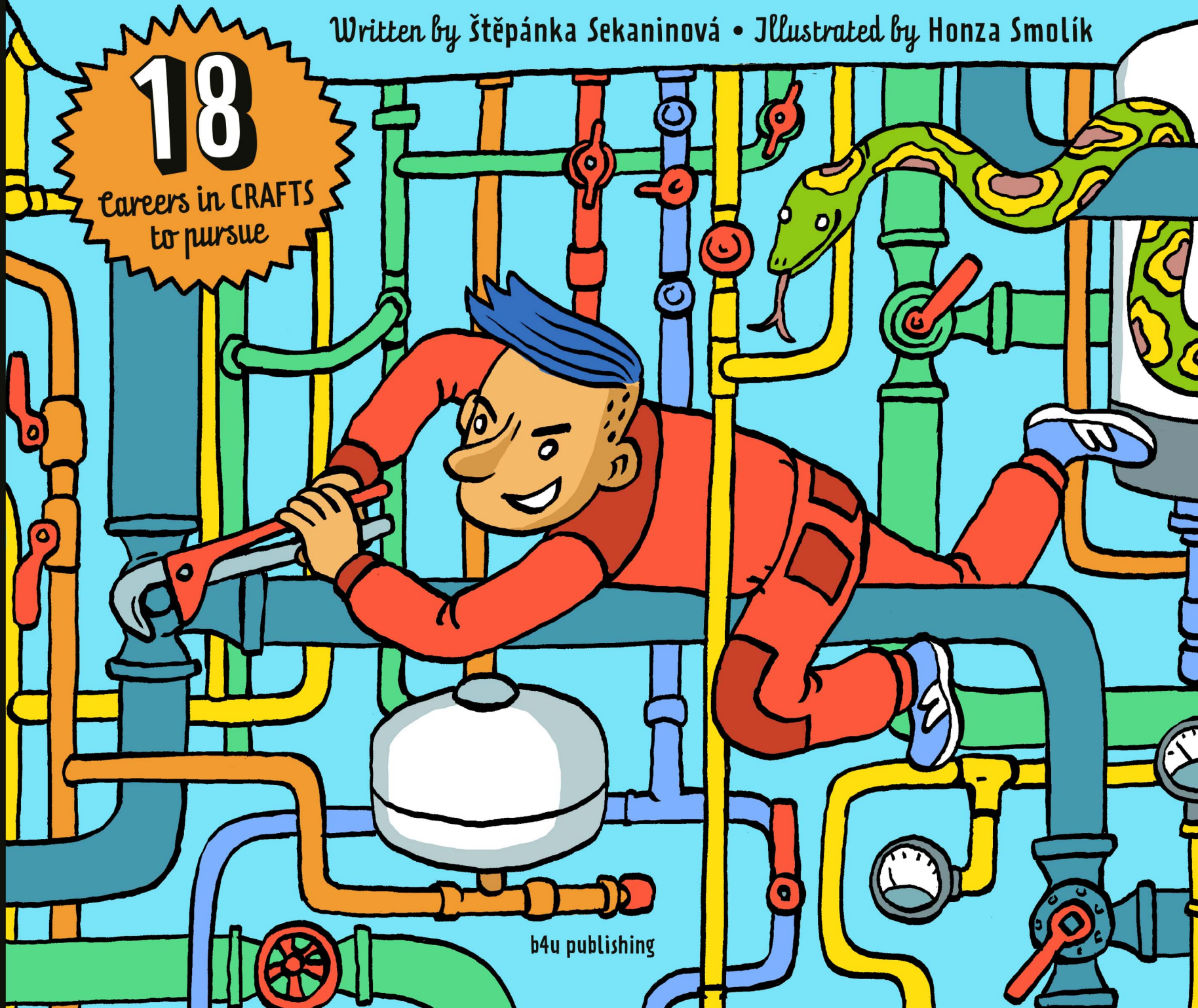
Written by Štěpánka Sekaninová • Illustrated by Honza Smolík



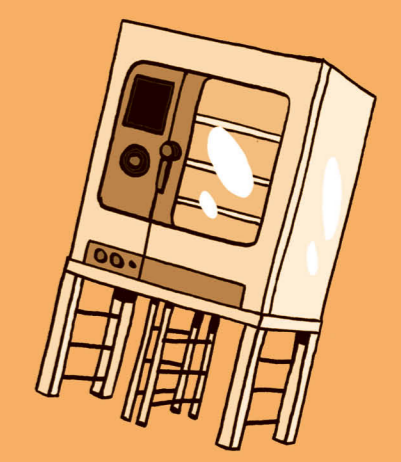
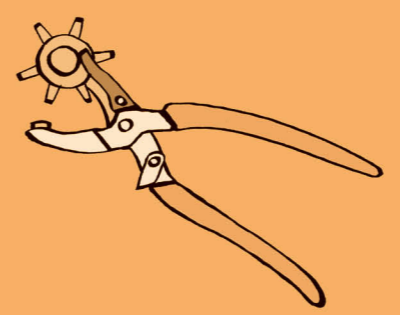
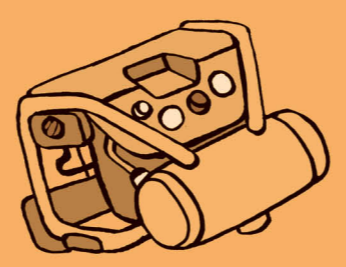
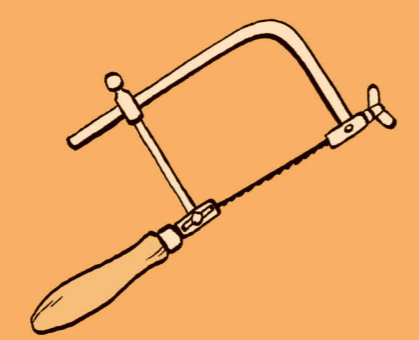
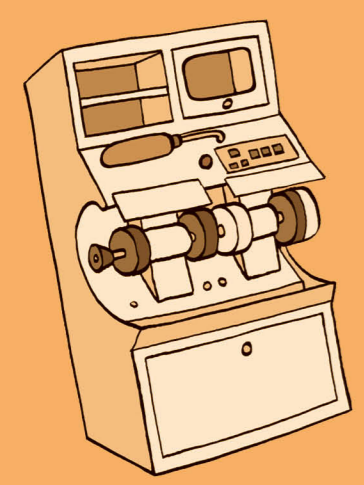
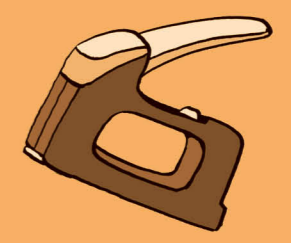
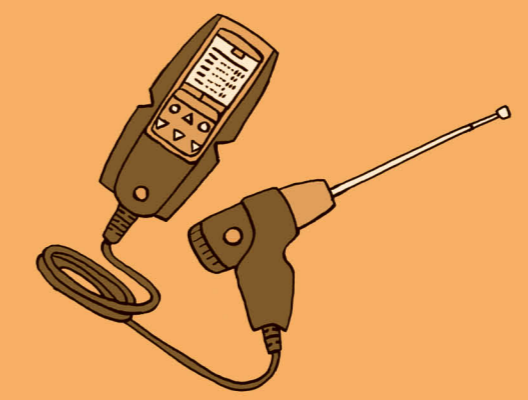
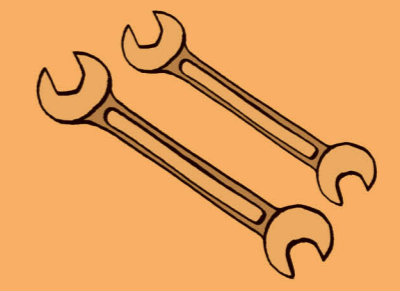
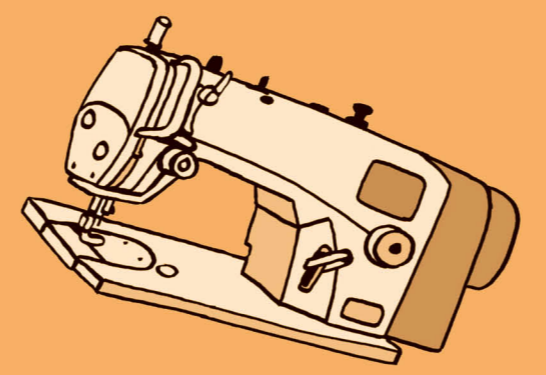
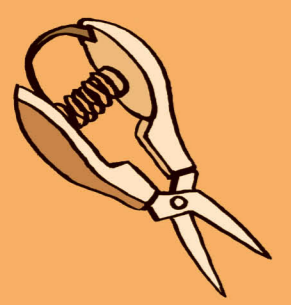
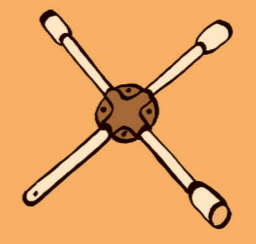
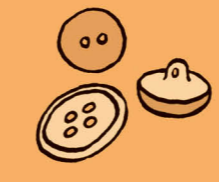
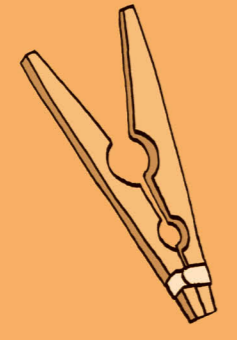
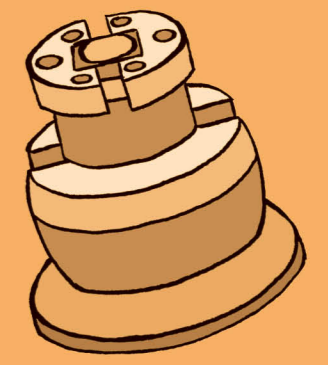
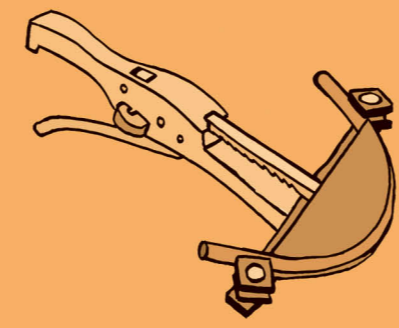
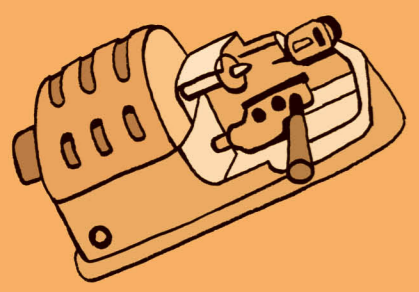
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18
careers in CRAFTS
to pursue



b4u publishing



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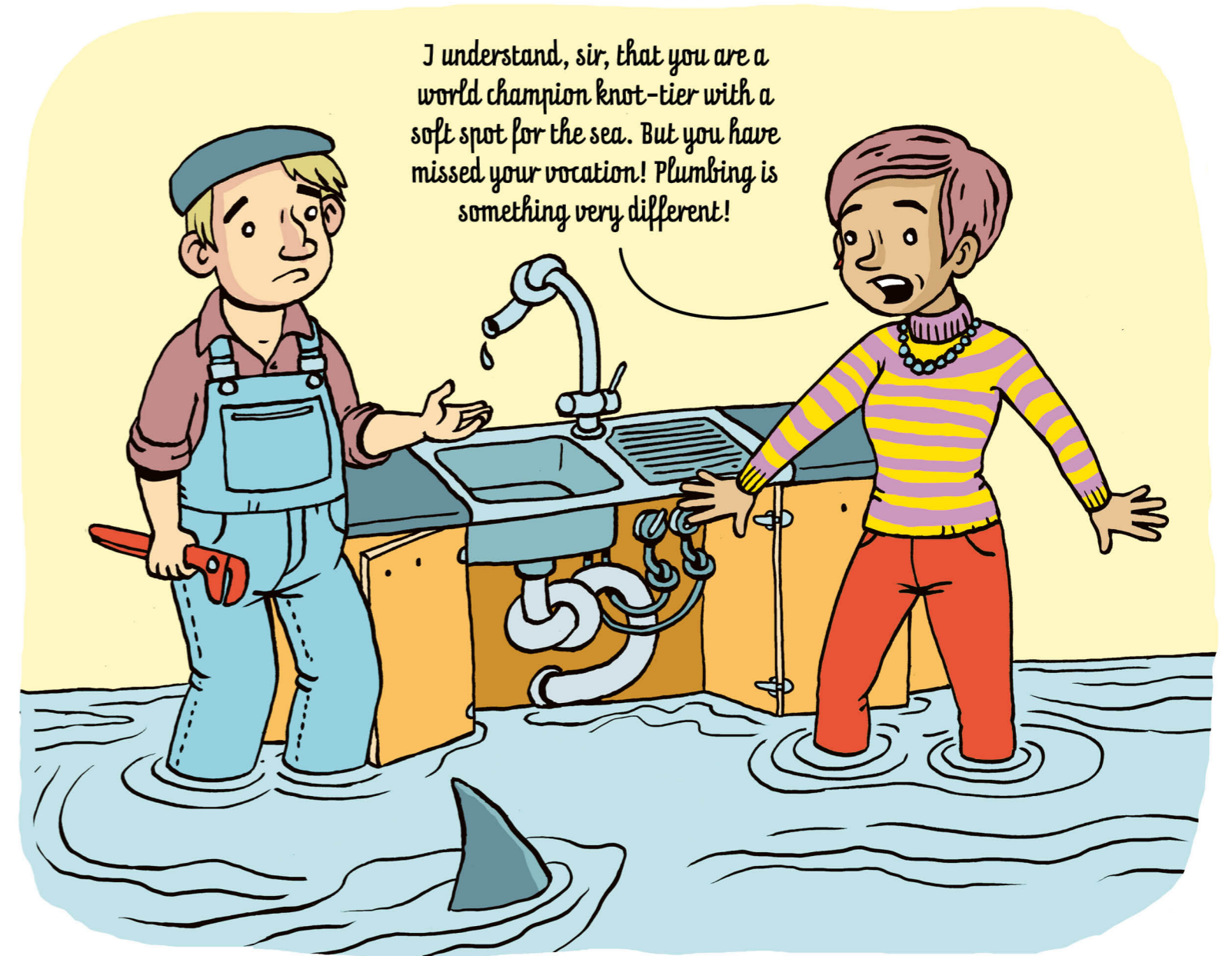
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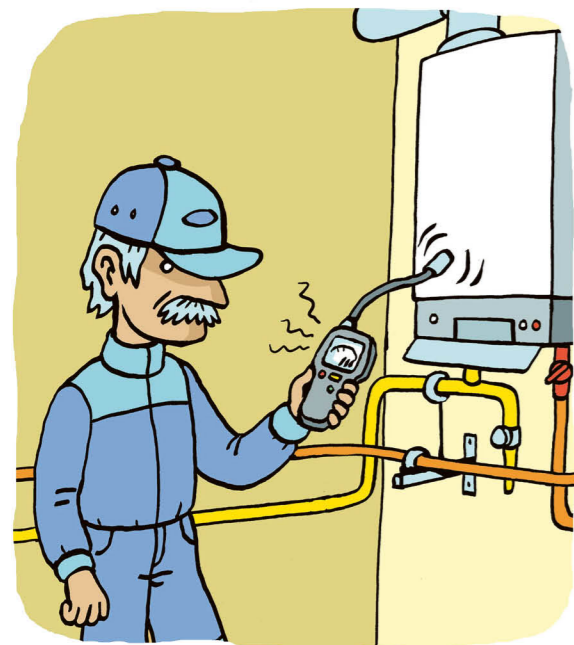
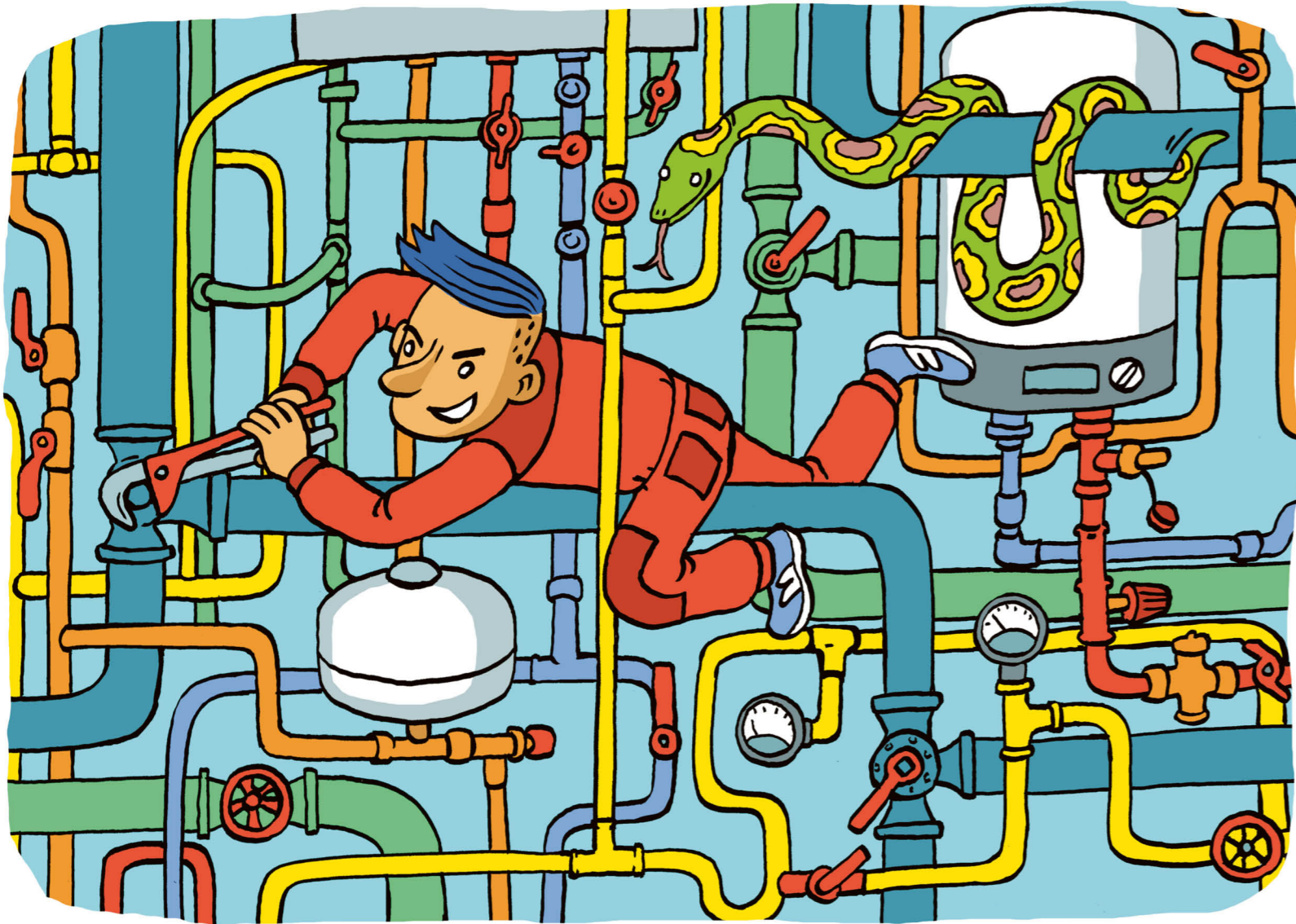
* INTRODUCTION *



Have you ever wondered what happens when a plumber gets muddled up? It's probably best not to know! Water pipes get tangled and stop the water – and that's the best-case scenario. The worst is that the pipes burst, turning your house into a tub filled with water. You may find this funny at first, but your laughter will soon wear off. So much can go wrong! Imagine a baker burning bread, a confectioner salting tarts, or a chef adding sugar to risotto! Imagine a chimneysweep falling down a chimney, or a confused bricklayer building a wall so crooked as to need buttressing like a Gothic cathedral!

All this goes to show, kids, that to guard against messes like this (funny in a book like ours, but not in real life), a good craftsman needs an open mind and the right skills. This book pulls back the curtain on various crafts and trades, including baker, chef, upholsterer, butcher, painter and decorator, car mechanic, and plumber. The reader will learn many interesting things about the lives of selected craftspeople, as well as learning when and where their professions first saw the light of day. Let's go for it! Who knows, by the end of the book you might have discovered your dream job!

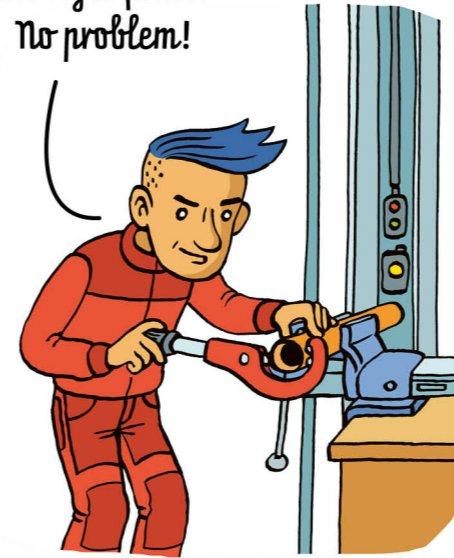
* PLUMBER *



A PLUMBER TAKES DELIGHT IN ALL KINDS OF PIPES, TUBES AND MAIN DISTRIBUTION FOR WATER, HEAT AND GAS, OUTDOORS AND IN. INDEED, THEY MAKE THEIR LIVING BY WORKING WITH THEM. LIKE IT OR NOT, WITHOUT PLUMBERS OUR LIVES WOULD BE FAR MORE DIFFICULT. OOPS! MY SINK HAS SPRUNG A LEAK, AND MY BATHTUB IS CLOGGED. I'D BETTER CALL THE PLUMBER!

👍 Everyone admires you for your handiness and smart thinking. There's no maze too convoluted for you to crack. So how about a maze of pipes with water flowing through them? Quite a challenge, eh? Maybe pipes and water mains – in short, plumbing – is the future you are made for.

Cut a tube in just the right place?
No problem!



I'm welding it properly, so it will hold!

Sometimes it's necessary to custom-bend a pipe.



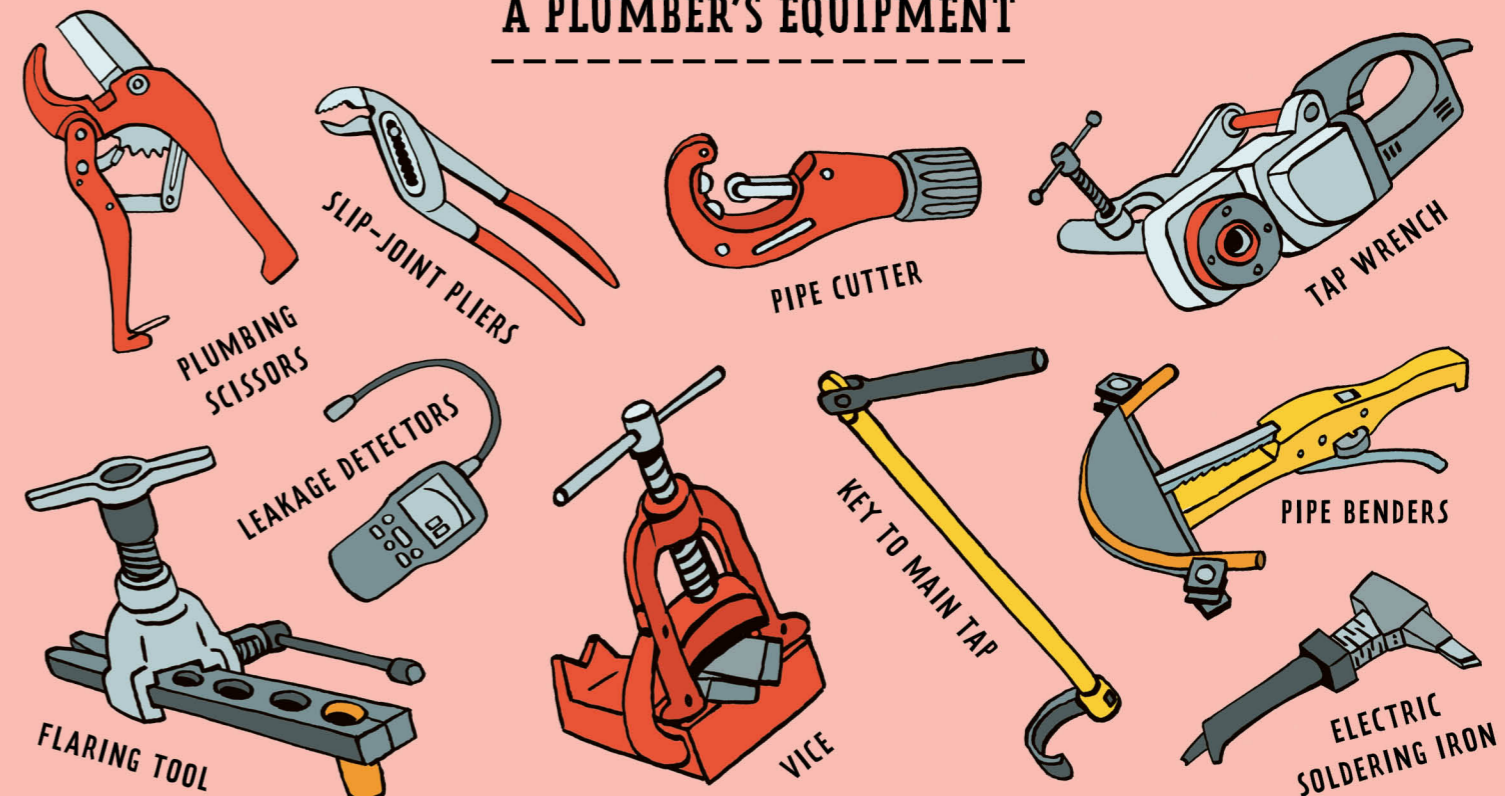
EXPERTS ON PIPES

A plumber must be able to fit, repair and test all water and gas pipes, as well as pipes connected to the sewage system. But it's not only about the pipes themselves! They also need to know how to connect individual pipes to what they serve, such as a bathtub, washbasin or toilet.

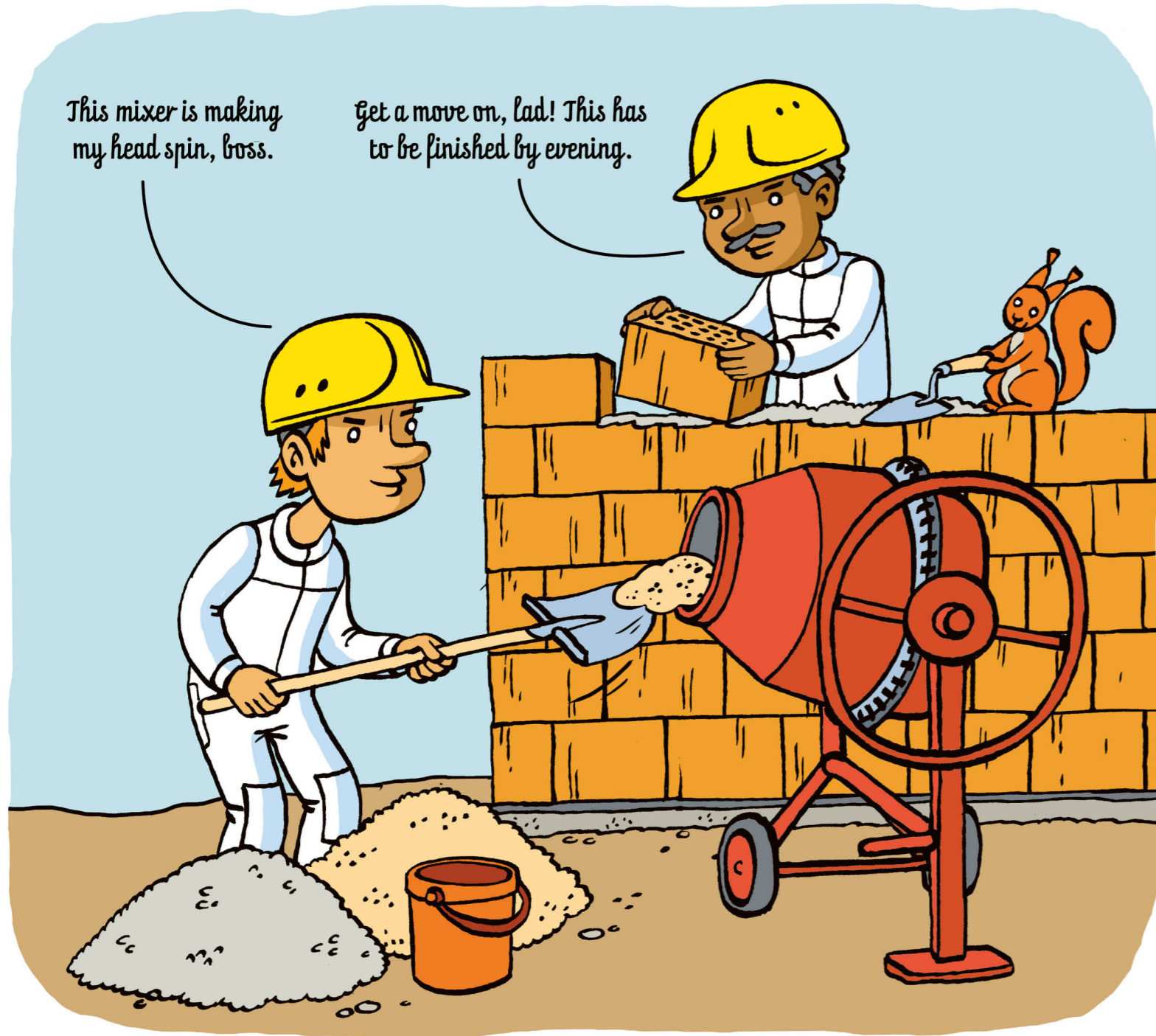
WHERE TO ENCOUNTER A PLUMBER

We may meet one in the home – in the kitchen, bathroom or living room, when the heating or a toilet has broken, for instance. But plumbers work in all kinds of places. They help out with main distribution systems in large factories, laboratories and building sites. A plumber is never bored!

A PLUMBER'S EQUIPMENT




* MASON *



This mixer is making my head spin, boss.

Get a move on, lad! This has to be finished by evening.

AS A CHILD, TODAY'S MASON LIKED TO PLAY WITH WOODEN BRICKS AND DIFFERENT BUILDING SETS, USING THEM TO MAKE HOUSES AND OTHER BUILDINGS, GARAGES, CASTLES AND PALACES. HE HAD SUCH FUN DOING IT THAT THE INTEREST WENT WITH HIM INTO ADULthood. NOW HE BUILDS HOUSES, CABINS, COTTAGES AND TOWERS – WITH MATERIALS OTHER THAN WOODEN TOY BLOCKS, OF COURSE!

 You use your building set to make houses and buildings only. The older you get, the more elaborate and sophisticated the buildings become. You would like to experience it for real someday – the bustle of the building site, the piling of brick upon brick, the smell of mortar ... Could it be that you're a mason of the future?

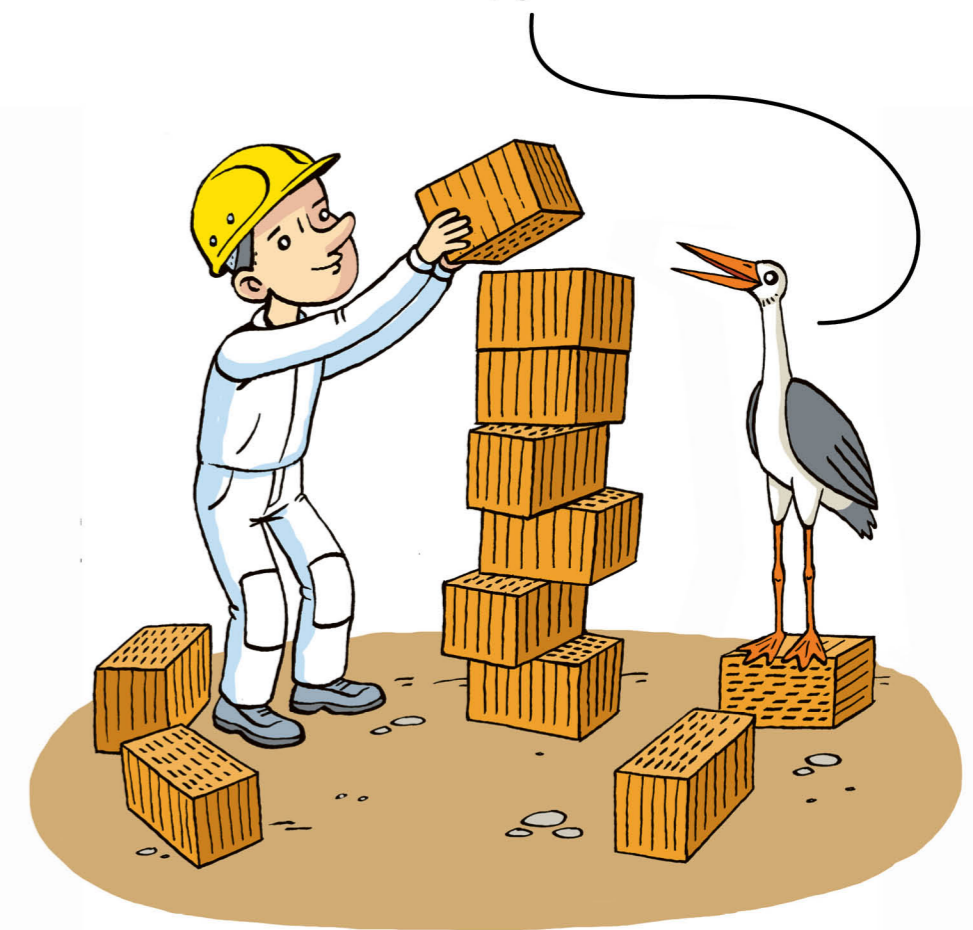
LET'S BUILD!

Building accounts for the larger part of a mason's work. As we said, adult masons work not with wooden blocks but with real bricks of clay and sand, stone, and breeze (concrete) blocks. The result may be a beautiful wall, a perimeter construction, even a whole house.

IT'S ABOUT MORE THAN BRICKS

Bricks and other building components must be joined together firmly. Were this important thing not done, the house would fall in an instant! To ensure that it remains standing in all circumstances and conditions, the mason must use the best connectors. Mortar is the most common of these.

I can hardly bear to look at it!
I think I'll fly south instead.



One stone on top of another so that not even a hurricane will move this cottage!





FIRST BRICKS

Masons came to be when humans left caves behind and began to build their own dwellings. Their materials were provided by Nature; it would be a while before our ancestors invented burned bricks. By ancient and medieval times, however, masons were indispensable. Who else but masons built pyramids, palaces, forts and castles?

BUILT TO LAST

For a building to remain standing, we need mortar, as you know, and concrete. A mason makes mortar by mixing water, sand, lime and – sometimes – cement. This creates a mushy substance that is great at sticking bricks together. Concrete is a construction material made of water, small stones and cement. Once dried, concrete is as hard as rock; if well made, it will stand firm in all weathers. Concrete was already in use in ancient Rome.

INSTRUMENTS AND TOOLS OF A MASON



* SHOEMAKER *

Fancy trying this new fashion model, Tom?



A COBBLER LIKES THE SMELL OF LEATHER AND BELIEVES THAT FEET DESERVE TO BE TREATED WITH TENDERNESS. FROM MORNING TILL NIGHT THEY THINK ABOUT SHOES THAT NEVER PINCH, CHAFE OR HURT, AND THAT FIT THE FOOT AS A GLOVE FITS THE HAND. THEIR WORKSHOP CONTAINS A WIDE RANGE OF BOOTS AND SHOES, DRESSY AND CASUAL, SOMETHING FOR EVERYONE.

A HOLE IN YOUR SHOE

A cobbler repairs shoes as well as making them. They fix holes, worn heels and soles, and they replace broken zips and buckles. No repair is beyond them. While doing the repair, they often discover faults in the shoe, helping them to avoid such errors in their own shoemaking.

* GLASSMAKER *



A GLASSMAKER NEEDS A LOT OF PUFF BECAUSE THEY SPEND THE WHOLE DAY BLOWING GLASS THROUGH BLOWPIPES, WHICH WOULD BE IMPOSSIBLE WITHOUT STRONG LUNGS. WELL, IF YOU THINK THAT, YOU'RE WRONG. BUT DON'T WORRY: WE'RE ABOUT TO PUT YOU RIGHT! WHAT IS TRUE IS THAT GLASS BLOSSOMS IN A GLASSMAKER'S DEFT HANDS, BECAUSE THEY MAKE IT WITH LOVE.



You are fond of glass, in all its purity and fragility. Ever since you saw a TV programme about glassmaking, you have wondered what it would be like to blow into one end of a tube and watch glass come out of the other. How about becoming a glassmaker?



FIRST STEPS

It is but a small step from observation of vitrification to glass production. The first glass products were clay beads with a vitreous coating. Not till later, however, with the invention of the blowpipe, did glassmaking become commonplace enough to experience a boom. We believe that glassblowing began in the 1st century CE.



BREATH MANAGEMENT

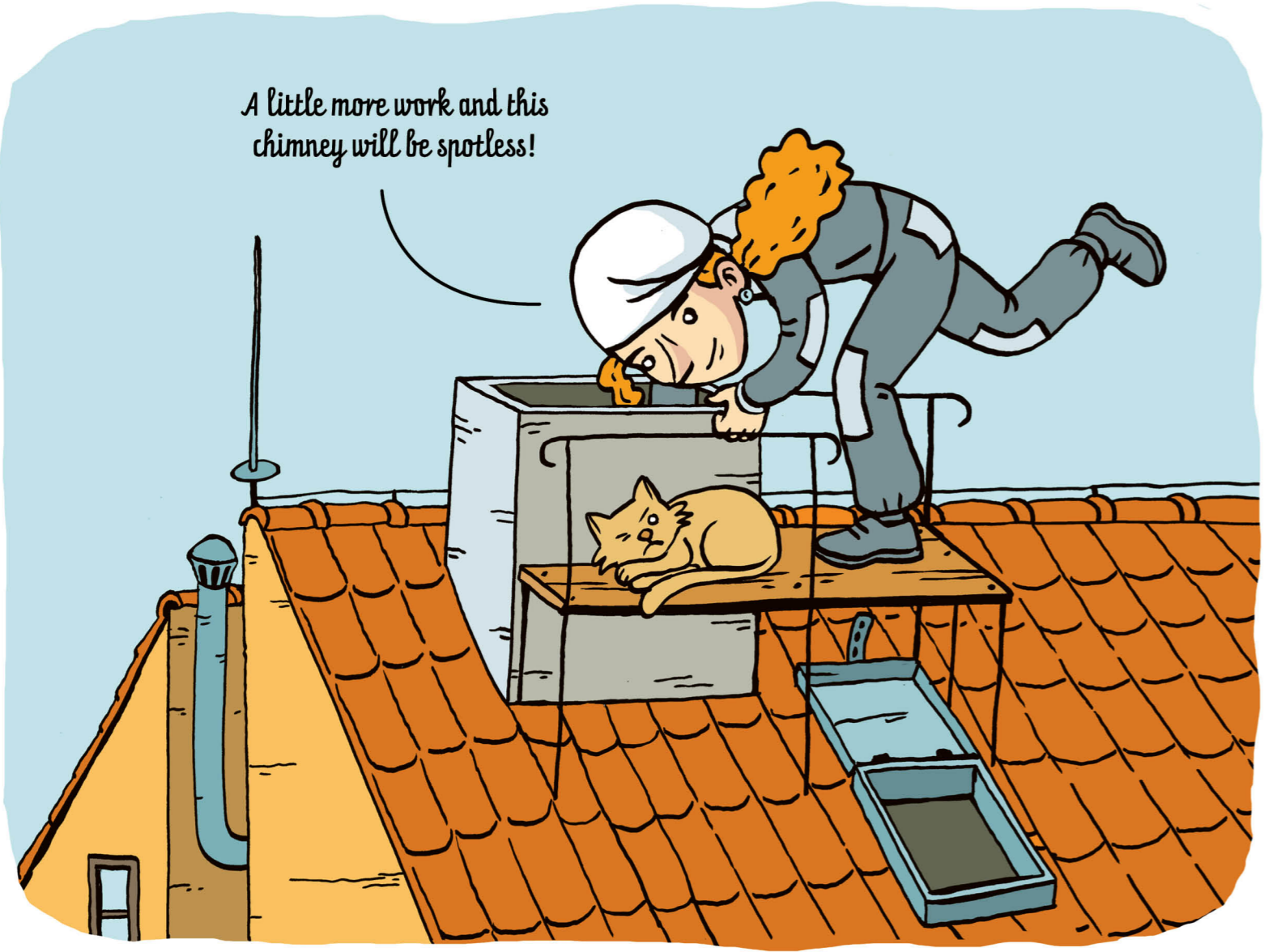
The word "glassmaker" may make us think of someone pulling from a fire a blowpipe with a lump of glass on its end, then blowing into the other end, cheeks swelling, turning the pipe, giving the material shape. Soft, hot glass is so malleable that to blow it doesn't require much breath. The difficult part is turning the pipe in one hand while shaping the glass with the other.

BEFORE GLASSMAKERS

Glass has been with humankind since its earliest days. After the eruption of a volcano, our ancestors would gather volcanic glass (obsidian) from near the volcano. It was discovered by complete accident that some stones near the heart of the volcano vitrified beautifully. These stones became highly prized.



* CHIMNEYSWEEP *



A CHIMNEYSWEEP BRINGS PEOPLE LUCK, IT IS SAID. MORE IMPORTANTLY, THOUGH, THEIR FAVOURITE ACTIVITY IS TO CLIMB ROOFS AND LOOK DOWN CHIMNEYS. THEY DO THIS NOT BECAUSE THEY ARE NOSEY BUT BECAUSE THEY MUST CHECK THAT ALL THOSE SMOKING CHIMNEYS ARE WORKING PROPERLY.

BOILERS, STOVES ...

A chimneysweep checks to make sure that chimneys are clean and without blockages. And they don't stop at chimneys. They are also responsible for the good operation of boilers, certain types of stoves and fireplaces, and they monitor the so-called flue gas flow, following the long route from heating body to chimney.



Which one would you like, sir?



Do you have anything more colourful?



👍 Do you like the idea of being a bringer of good luck? Do you enjoy looking at chimneys, boilers and fireplaces? Do you combine an obsession with heights with a sense of responsibility, dexterity and a taste for adventure? Is black your favourite colour? Do you fancy a go at a chimney?

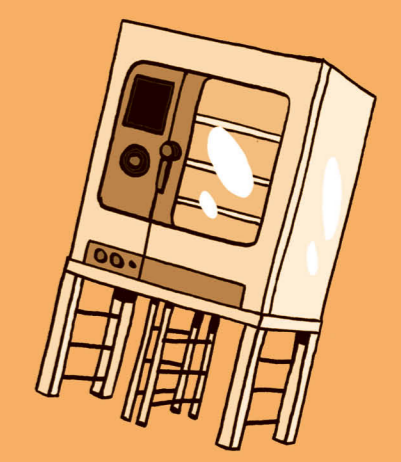
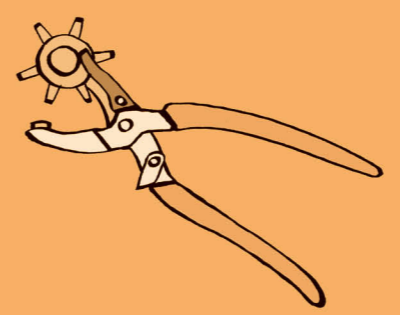
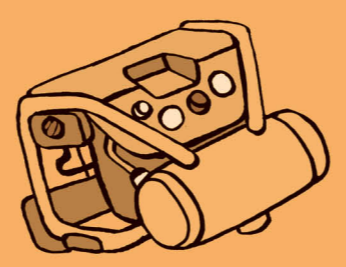
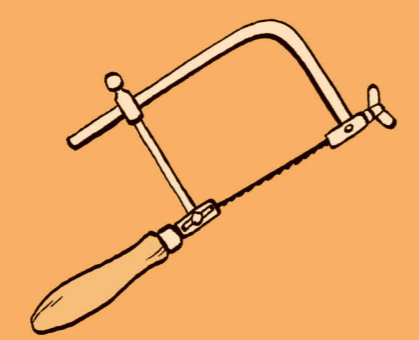
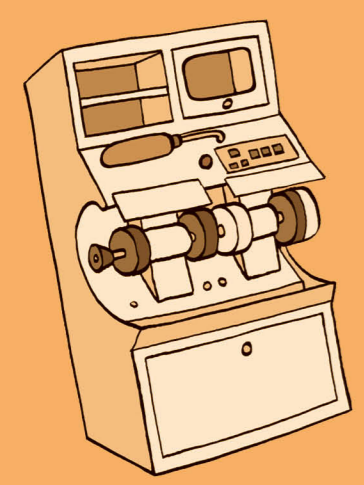
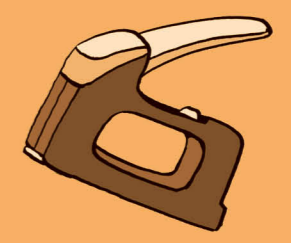
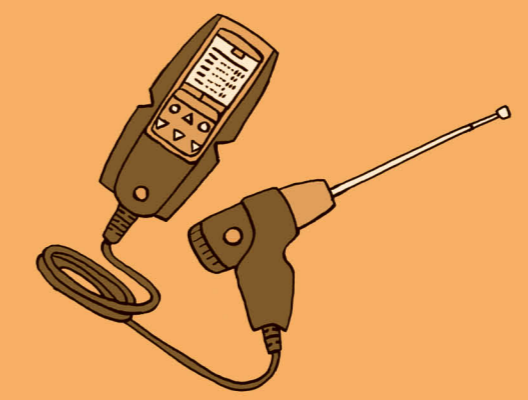
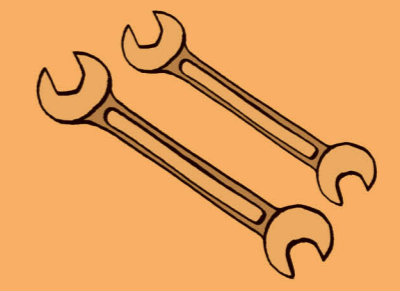
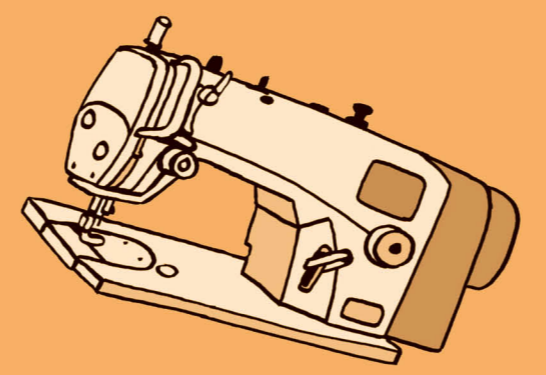
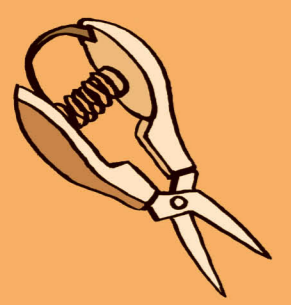
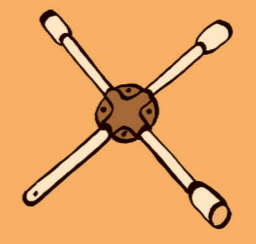
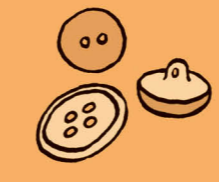
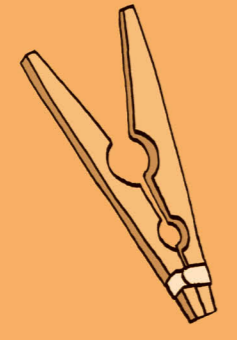
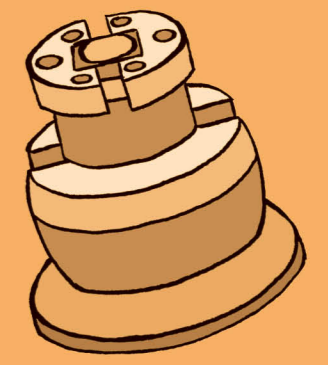
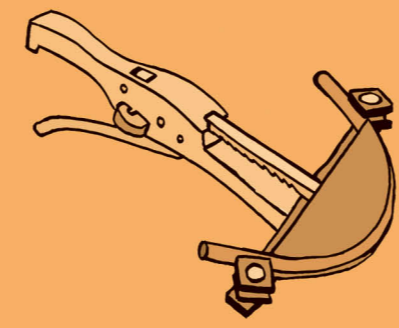
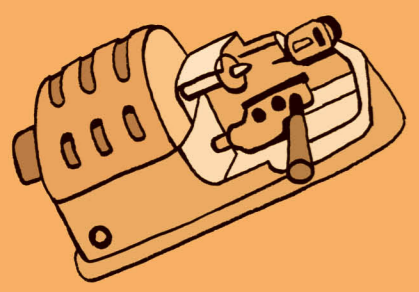
IS THIS THE RIGHT KIND OF CHIMNEY?

A chimneysweep checks for air pollution, measures flue gases and acts as a consultant on chimneys. On top of all this, a chimneysweep occasionally gets involved with bricklayers – when he is repairing chimney steps, for instance.

FOR LUCK

It is said that a chimneysweep brings good luck. Some chimneysweeps like to be reminded of this and don't mind if you touch them. They certainly bring something good: clean chimneys are a blessing, since poisonous chimney fumes can be a real danger.





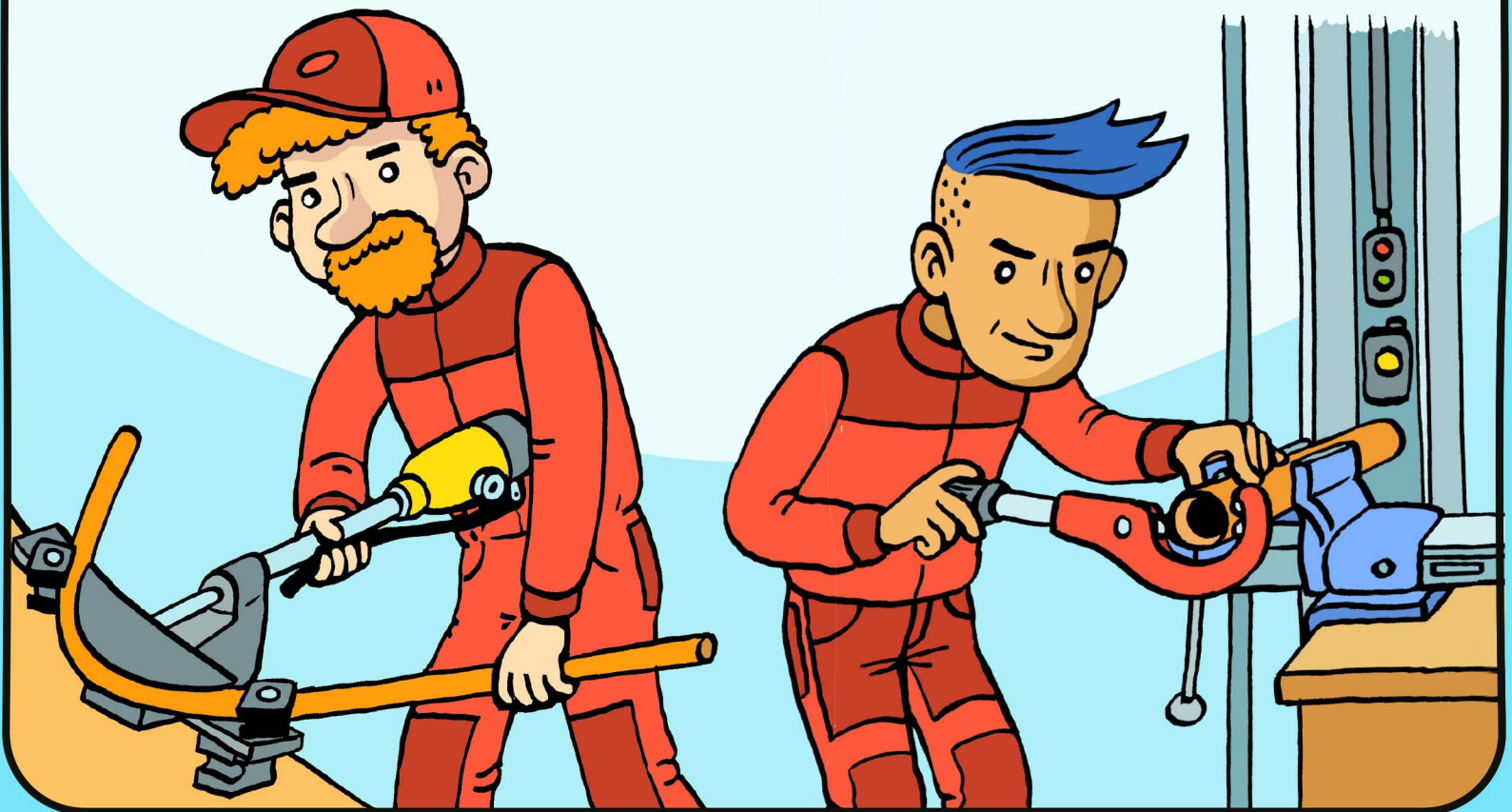


Would you like to be a


MASTER CRAFTSMAN

when you grow up?

No way, you say, because science is boring? But what gave you that idea?! Scientists with specialist interests travel the world researching fascinating things – such as moss, the bones of our distant ancestors, fish, music ... Some of them even study humankind. Come with us for a look under the bonnet of a number of sciences, so learning for yourself what it takes to be a scientist. At the very end you will encounter a small, mysterious, somewhat unscientific curiosity. A question to start you off: Do you know what a bryologist does?



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