

freediving breath hold exercises

freediving breath hold exercises are essential for anyone looking to improve their ability to stay underwater safely and efficiently. These exercises focus on enhancing lung capacity, increasing carbon dioxide tolerance, and training the body to use oxygen more effectively. Mastering breath hold techniques can significantly boost performance in freediving and other underwater activities. This article explores various freediving breath hold exercises, proper breathing techniques, safety considerations, and tips for maximizing breath hold duration. Readers will gain a comprehensive understanding of how to train their bodies for longer, more controlled breath holds through scientifically backed methods and practical routines.

- Understanding the Physiology of Breath Holding
- Key Freediving Breath Hold Exercises
- Breathing Techniques to Enhance Breath Hold
- Safety Guidelines for Breath Hold Training
- Tips for Improving Breath Hold Performance

Understanding the Physiology of Breath Holding

Before engaging in freediving breath hold exercises, it is crucial to understand the physiological mechanisms involved in breath holding. Breath holding triggers several reflexes in the body, including the mammalian dive reflex, which conserves oxygen by slowing the heart rate and redirecting blood flow to vital organs. Additionally, carbon dioxide (CO₂) buildup in the blood stimulates the urge to breathe, while oxygen (O₂) levels determine how long the breath can be comfortably held. Effective breath hold training aims to increase lung capacity, enhance CO₂ tolerance, and improve oxygen utilization efficiency.

The Mammalian Dive Reflex

This reflex is activated during breath holding and immersion in water, causing bradycardia (heart rate slowing), peripheral vasoconstriction (narrowing of blood vessels), and blood shift to protect the lungs. These physiological changes help extend breath hold duration by conserving oxygen and prioritizing its delivery to the brain and heart.

Oxygen and Carbon Dioxide Dynamics

Oxygen depletion and carbon dioxide accumulation are the primary limiting factors during breath holding. Training that focuses on increasing the body's tolerance to higher CO₂ levels can delay the discomfort that triggers the breathing reflex. Simultaneously, improving oxygen storage and usage allows for longer and more effective breath holds.

Key Freediving Breath Hold Exercises

Various exercises target different aspects of breath hold performance. Incorporating these freediving breath hold exercises into a training routine can effectively enhance lung capacity, CO₂ tolerance, and mental control.

Static Apnea Training

Static apnea involves holding the breath while remaining still, usually face down in water or lying down on land. This exercise helps build mental focus, lung capacity, and CO₂ tolerance without the added physical exertion of movement.

CO₂ Tables

CO₂ tables are structured breath hold exercises designed to increase tolerance to carbon dioxide. They consist of a series of breath holds interspersed with progressively shorter recovery breaths. This method trains the body's response to elevated CO₂ levels, reducing the urge to breathe prematurely.

O₂ Tables

O₂ tables focus on increasing oxygen utilization by performing breath holds with fixed recovery times while gradually extending the duration of each hold. This exercise improves the body's ability to function under low oxygen conditions.

Diaphragmatic and Lung Stretching Exercises

These exercises aim to increase lung capacity and elasticity of the respiratory muscles. Techniques include deep belly breathing, slow controlled inhalations, and specific stretches such as the inspiratory muscle training mask or breath stacking.

Pranayama and Controlled Breathing

Incorporating pranayama (yogic breathing techniques) can improve breath control and lung efficiency. Techniques like box breathing or alternate nostril breathing enhance oxygen uptake and promote relaxation, which is vital for extended breath holds.

Breathing Techniques to Enhance Breath Hold

Proper breathing before and after breath holding plays a critical role in maximizing performance and safety. Mastery of these breathing techniques supports oxygen saturation and CO₂ clearance from the body.

Diaphragmatic Breathing

This technique involves deep breathing using the diaphragm rather than shallow chest breathing. It increases lung volume and oxygen intake while promoting relaxation by activating the parasympathetic nervous system.

Pre-Dive Breathing Routine

A pre-dive breathing routine typically consists of slow, deep inhalations followed by relaxed exhalations to calm the mind and saturate the blood with oxygen. Avoiding hyperventilation is important as it can dangerously lower CO₂ levels and delay the urge to breathe, increasing the risk of shallow water blackout.

Recovery Breathing

After a breath hold, controlled recovery breathing helps restore normal oxygen and carbon dioxide balance. Slow, rhythmic breaths aid in calming the nervous system and preparing the body for the next breath hold.

Safety Guidelines for Breath Hold Training

Safety must be the top priority when practicing freediving breath hold exercises. Breath hold training carries inherent risks, including hypoxia and shallow water blackout. Adhering to safety protocols minimizes these risks.

Never Train Alone

Always perform breath hold exercises with a trained partner or professional supervisor who can provide assistance in case of an emergency. This

precaution is essential to prevent drowning incidents.

Understand Your Limits

Progressively increase breath hold duration without pushing beyond safe physiological limits. Avoid hyperventilation and other risky practices that artificially prolong breath holds at the expense of safety.

Practice in a Safe Environment

Choose calm, controlled environments for training, such as pools with lifeguards or designated freediving areas. Avoid open water or hazardous conditions until proficient in breath hold techniques.

Monitor Physical and Mental Condition

Refrain from breath hold exercises if feeling fatigued, unwell, or under the influence of drugs or alcohol. Mental focus and physical readiness are crucial for safe training.

Tips for Improving Breath Hold Performance

Beyond regular practice of freediving breath hold exercises, several strategies can help improve overall breath hold capacity and efficiency.

1. **Consistent Training:** Regularly practicing breath hold exercises improves lung capacity and CO₂ tolerance over time.
2. **Physical Fitness:** Cardiovascular and respiratory fitness support more efficient oxygen usage and recovery.
3. **Relaxation Techniques:** Reducing stress and anxiety during breath holds conserves oxygen and extends duration.
4. **Proper Nutrition and Hydration:** Maintaining good hydration and balanced nutrition supports optimal physiological function.
5. **Mindfulness and Visualization:** Mental training techniques enhance focus and control during breath holds.

Incorporating these tips alongside structured freediving breath hold exercises will lead to safer and more effective breath hold sessions, enabling freedivers to push their limits progressively and responsibly.

Frequently Asked Questions

What are the most effective breath hold exercises for freediving beginners?

For beginners, static apnea exercises such as holding your breath while lying down in a relaxed state are effective. Gradually increase breath hold times and practice diaphragmatic breathing to improve lung capacity and relaxation.

How does CO2 tolerance training improve freediving breath hold?

CO2 tolerance training involves holding your breath despite rising carbon dioxide levels, helping your body adapt to higher CO2 concentrations. This delays the urge to breathe and extends breath hold durations, which is crucial for freediving.

Can practicing breath hold exercises daily improve freediving performance?

Yes, consistent daily practice of breath hold exercises improves lung capacity, tolerance to hypoxia and hypercapnia, and overall relaxation, all of which enhance freediving performance. However, it is important to train safely and avoid blackout risks.

What role does relaxation play in freediving breath hold exercises?

Relaxation reduces oxygen consumption and heart rate, allowing longer breath holds. Techniques such as meditation, controlled breathing, and progressive muscle relaxation are often integrated into freediving training to maximize breath hold duration.

Are there any breathing techniques recommended before breath hold exercises in freediving?

Yes, techniques like diaphragmatic breathing and controlled hyperventilation (with caution) are used to increase oxygen levels before breath holding. The 'packing' technique is also used by advanced freedivers to increase lung volume, but should be learned under supervision.

How can I safely practice breath hold exercises for freediving at home?

Practice in a safe environment, preferably with a trained buddy present to monitor you. Avoid practicing breath holds while in water alone. Use static

apnea exercises on land, gradually increasing duration and focusing on relaxation and proper breathing techniques.

What is the difference between static apnea and dynamic apnea breath hold exercises?

Static apnea involves holding your breath while remaining stationary, often lying down, focusing on relaxation and breath hold duration. Dynamic apnea involves breath holding while swimming horizontally underwater, focusing on distance covered and efficient movement.

How long does it take to see improvements in breath hold times with freediving exercises?

With regular and safe training, beginners can often see improvements in breath hold times within 2 to 4 weeks. Progress depends on individual fitness, lung capacity, and adherence to proper techniques and safety protocols.

Additional Resources

1. Freediving Manual: Learn How to Freedive Deep and Stay Safe

This comprehensive guide covers the fundamental techniques of freediving, including breath hold exercises designed to increase lung capacity and improve relaxation underwater. It provides step-by-step instructions on proper breathing methods, equalization, and safety protocols. Ideal for beginners and intermediate freedivers, this manual emphasizes gradual progress and mindfulness.

2. Breath-Hold Training for Divers

Focused exclusively on breath hold exercises, this book explores various training regimens to enhance apnea time and efficiency. It includes dryland exercises, CO₂ and O₂ tables, and tips on mental preparation to handle the physiological challenges of breath holding. The detailed scientific explanations help divers understand how to push their limits safely.

3. The Art of Freediving: Mastering Breath Hold Techniques

Designed for those looking to refine their freediving skills, this book delves into advanced breath hold strategies and relaxation methods. It combines practical exercises with insights into the body's response to extended breath holds. Readers will learn how to manage stress, optimize oxygen usage, and improve overall underwater performance.

4. Dynamic Apnea Training: Breath Hold Workouts for Freedivers

This title focuses on dynamic apnea, or breath holding while swimming horizontally underwater. The book offers tailored workouts that build endurance, lung capacity, and muscular efficiency. It also discusses the importance of proper technique and safety measures during dynamic breath hold

training sessions.

5. Pranayama and Freediving: Harnessing Breath for Depth and Duration

Linking ancient breathing practices with modern freediving, this book introduces pranayama techniques to enhance breath control and mental calmness. It presents exercises that improve oxygen efficiency and reduce anxiety, essential for longer and deeper dives. The holistic approach enriches both physical and psychological aspects of breath hold training.

6. CO₂ and O₂ Tables for Freedivers: Structured Breath Hold Training

This practical guide explains how to use CO₂ and O₂ tolerance tables to systematically increase breath-hold times. It breaks down the science behind these tables and provides sample training schedules tailored to different skill levels. The book is a valuable resource for freedivers aiming to track progress and train effectively.

7. Freediving Physiology: Understanding Breath Hold Mechanics

A scientific yet accessible exploration of the physiological processes involved in breath holding, this book helps freedivers understand what happens inside their bodies during apnea. It discusses the mammalian dive reflex, oxygen conservation, and carbon dioxide buildup. Knowledge of these mechanisms enables divers to train smarter and safer.

8. Mind Over Breath: Psychological Techniques for Breath Hold Improvement

This book emphasizes mental training techniques to overcome the psychological barriers of breath holding. It covers visualization, meditation, and relaxation strategies that help reduce panic and increase comfort underwater. Combining mental and physical training, the book offers a comprehensive approach to breath hold improvement.

9. Freediving Workouts: Breath Hold and Conditioning Exercises

A practical workout guide for freedivers, this book features a variety of exercises targeting breath hold capacity, cardiovascular fitness, and muscular strength. It includes warm-ups, cooldowns, and specific drills to enhance apnea performance. Suitable for all levels, this resource helps divers build endurance and confidence systematically.

Freediving Breath Hold Exercises

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freediving breath hold exercises: Free Diving Velocity: Techniques for Breath-Hold Diving Viona D. Rennoll, 2024-09-06 Free Diving Velocity: Techniques for Breath-Hold Diving is your ultimate resource for mastering the art of breath-hold diving. Designed for divers of all levels,

this book equips you with the knowledge and skills needed to explore the depths with confidence and safety. Whether you're a beginner learning the fundamentals or an experienced diver looking to refine your techniques, *Free Diving Velocity* covers every aspect of the sport, from mental conditioning to advanced diving strategies. Discover the science behind breath control, oxygen conservation, and pressure management as you push your limits underwater. Learn essential techniques like equalization, efficient movement, and safety protocols to prevent shallow water blackouts and other common risks. This book also dives deep into the mental side of free diving, offering mindfulness exercises and visualization strategies to help you stay calm and focused during your dives. What sets *Free Diving Velocity* apart is its focus on safety. Each chapter emphasizes responsible diving practices and the importance of training with a dive buddy. With real-world tips from seasoned free divers, you'll gain the tools to assess your limits, avoid injuries, and dive deeper than ever before. What you will find in this book: Proven breathing techniques to extend dive times Equalization methods to manage underwater pressure Mental conditioning strategies for overcoming fear Tips for streamlining your body for efficient movement Safety guidelines and protocols for diving with a buddy Advanced training exercises to push your diving limits Prepare to take your freediving to the next level with *Free Diving Velocity*—your complete guide to diving deeper, staying longer, and experiencing the ocean like never before.

freediving breath hold exercises: Freediving Mastery: The Complete Guide to Apnea Diving Boreas M.L. Saage, Dive into the fascinating world of freediving with 'Freediving Mastery: The Complete Guide to Apnea Diving.' This comprehensive resource bridges the gap between beginner techniques and advanced freediving practices, offering a structured approach to developing your underwater breath-holding abilities. The book begins with essential physiological foundations, explaining how your body adapts during apnea diving and how to work with these natural responses rather than against them. Detailed equipment sections help you select the right gear for your level and diving style, while the extensive safety protocols could potentially save your life or your buddy's. Breath control forms the cornerstone of successful freediving, and this guide provides progressive breathing exercises that gradually extend your capacity. The mental aspects receive equal attention, with techniques for managing the psychological challenges that arise during extended breath-holds and deep water immersions. Explore the various freediving disciplines from static apnea to dynamic swimming and depth diving, each explained with clear technical instructions and training progressions. Advanced freedivers will appreciate the sections on equalization techniques for deeper dives, nitrogen narcosis management, and performance optimization strategies. Beyond the technical aspects, the book embraces the natural wonder of the underwater world, with guidance on marine life encounters, underwater photography while freediving, and environmental conservation practices. Whether you're taking your first breath-hold in a pool or planning deeper ocean dives, this methodical guide provides the knowledge base to develop your skills safely and effectively. The combination of scientific understanding, practical techniques, and respect for the marine environment makes this a balanced resource for anyone interested in the art and science of apnea diving.

freediving breath hold exercises: Freediving Kimmo Lahtinen, Simo Kurra, Ari Nissinen, 2015-04-26 Freediving is diving without a breathing apparatus. In many languages, freediving is referred to as apnea (breath-holding) or apnea diving. Freediving was still a relatively unknown sport around the turn of the millennium, but as organized freediving has increased, knowledge of the sport has also grown rapidly. At the same time, certain risks associated with the sport have been recognized. However, when performed correctly, freediving is safe and rewarding. Spreading correct information and promoting safe practices among the general public has become an important point of focus for the core group in the freediving community. Unlike scuba diving, freediving is something almost anyone can take up. All that is needed is some basic equipment and a place to dive. Some may feel that freediving is easy and that taking lessons is unnecessary. While leisurely snorkeling is usually quite safe and easy, adding the elements of increased performance and evaluation into the mix will inevitably introduce some risks. Adequate knowledge combined with

good skills helps in controlling these risks. This book is intended to be a basic guide to freediving. Even the experienced diver will find new perspectives and good tips in this book, while the beginner will gain a solid understanding of the basics. Our effort has been to present matters in a neutral, intelligible and personal way, and it is our hope that the practice of safe freediving will spread far and wide.

freediving breath hold exercises: Freediving Limits Emily James, AI, 2025-03-10 Freediving Limits explores the extraordinary science behind how humans can dive to incredible depths on a single breath. It delves into the physiological adaptations that allow freedivers to withstand extreme underwater pressure and extend their breath-holding capabilities. The book highlights the mammalian diving reflex, a fascinating biological response that redirects blood flow and slows heart rate to conserve oxygen, enabling divers to survive longer underwater. It also examines how freedivers train to enhance lung flexibility and reduce metabolic rate, pushing the boundaries of human endurance. The book progresses systematically, starting with the fundamentals of breath-hold physiology and the physics of underwater pressure. It then delves into the specific adaptations developed by freedivers and the training methodologies they employ. By combining scientific rigor with engaging narratives, Freediving Limits stands out by providing an evidence-based analysis of the sport, moving beyond anecdotal accounts. The book also touches on the ethical considerations of pushing human limits and the importance of diving safety, making it a valuable resource for anyone interested in sports science, human physiology, and the remarkable capabilities of the human body.

freediving breath hold exercises: Deep James Nestor, 2014-06-26 From the author of the international Bestseller *Breath* Covering a diving championship in Greece on a hot and sticky assignment for *Outside* magazine, James Nestor discovered free diving. He had stumbled on one of the most extreme sports in existence: a quest to extend the frontiers of human experience, in which divers descend without breathing equipment, for hundreds of feet below the water, for minutes after they should have died from lack of oxygen. Sometimes they emerge unconscious, or bleeding from the nose and ears, and sometimes they don't come up at all. The free divers were Nestor's way into an exhilarating and dangerous world of deep-sea pioneers, underwater athletes, scientists, spear fishermen, billionaires and ordinary men and women who are poised on the brink of some amazing discoveries about the ocean. Soon he was visiting the scientists who live 60ft underwater (and are permanently high on nitrous dioxide), swimming with the notorious man-eating sharks of Réunion and descending thousands of feet in a homemade submarine. And on the way down, he learnt about the amazing amphibious reflexes activated in the human body under deep-water conditions, why dolphins were injected with LSD in an attempt to teach them to talk, and why sharks like AC/DC. The sea covers seventy per cent of Earth's surface, and still contains answers to questions about the world we are only beginning to ask: *Deep* blends science and adventure to uncover its amazing secrets.

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both informative and inspiring. Enjoy the journey!

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Underwater Combat explores the multifaceted world of fighting beneath the surface, revealing how the aquatic environment shapes military and sporting strategies. This exploration goes beyond recounting historical events, offering a comprehensive framework for understanding underwater combat effectiveness. From ancient siege tactics to modern special forces, water's influence on combat, movement, and speed is profound. The book uniquely integrates historical analysis with scientific principles, such as fluid dynamics and human physiology, making complex concepts accessible. The book progresses logically, beginning with the physics of underwater movement, including drag and buoyancy. It then transitions to the evolution of underwater combat tactics, highlighting early frogmen and contemporary underwater demolition teams. Finally, it examines the physiological challenges faced by combatants, such as pressure and oxygen toxicity. By drawing on historical accounts, technical manuals, and first-hand narratives, Underwater Combat provides valuable insights for military historians, sports enthusiasts, and anyone interested in the demands of underwater operations.

freediving breath hold exercises: **Sport Diver** , 1994-10

freediving breath hold exercises: *Chasing the Elements* Liv Williams, 2016-09-05 Dieser hochwertig ausgestattete, englischsprachige Bildband verbindet erstklassige Fotos mit Interviews namhafter Sportler und zeigt damit die ganze Bandbreite des Extremsports. Die Autorin portraitiert Sportler u.a. aus den Bereichen BMX, Surfing, Snowboarding und Skating und gibt einzigartige Einblicke in die Szene. Der Leser lernt die Persönlichkeit jedes Einzelnen kennen und erfährt, was Menschen dazu bringt, ein Leben abseits des Normalen zu verbringen. Chasing the Elements ist nicht nur für Extremsportler interessant, auch Fotografen und Bildbandliebhaber bekommen einen einmaligen Einblick in die Sportfotografie. With a background of writing about action sports on her extreme sports blog www.iLivExtreme.com and using her love of the great outdoors as a backdrop, Liv Williams, author of *Chasing the Elements. The Heart and Soul of Action Sports*, explores the power and might of the human spirit. With in-depth interviews from the worlds of BMX, Surfing, Snowboarding, Skateboarding, Freediving, Freerunning, Action Sports Filmmaking and Photography, this book celebrates the majesty of the natural world and those who inhabit it. A Welsh woman, twice national Triathlon Champion, and living in Brechfa Forest in mid-Wales, Liv surfs, snowboards, runs on forest and mountain trails, rock climbs and is always seeking out new wilderness and sporting experiences. In addition to her love of the physical world, Liv is a communications specialist and filmmaker working alongside NGO's, military personnel and people who have been affected by natural and conflict-driven disaster. From refugee camps in Iraqi Kurdistan to the earthquakes in Nepal, she has reflected the challenges facing those affected as well as their laughter, joyful memories and hopes for the future. The book includes interviews with Tia Blanco, Ryan Paul, Brett Novak, Luci Romberg, Chad Kerley, Alex Rademaker, Easkey Britton, Herbert Nitsch, and Ben Selway. Contributing photographers are Ben Selway, Francis Juarez, Justin Jung, Stephan Jende, Alessandro Giapaollo, Nick Visconti, Kelton Woodburn, Devende Photography, Kay Walkowiak, Max Flick, Emily Ibarra, Chad Bonanno, Brandon Means, Jelle Mul, Andrea Zuccari, Francine Kreiss, and Herbert Nitsch.

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compress, light disappears, and one mistake could kill them. Even among freedivers, few have ever gone as deep as Nicholas Mevoli. A handsome young American with an unmatched talent for the sport, Nick was among freediving's brightest stars. He was also an extraordinary individual, one who rebelled against the vapid and commoditized society around him by relentlessly questing for something more meaningful and authentic, whatever the risks. So when Nick Mevoli arrived at Vertical Blue in 2013, the world's premier freediving competition, he was widely expected to challenge records and continue his meteoric rise to stardom. Instead, before the end of that fateful competition Nick Mevoli had died, a victim of the sport that had made him a star, and the very future of free diving was called into question. With unparalleled access and masterfully crafted prose, *One Breath* tells his unforgettable story, and of the sport which shaped and ultimately destroyed him.

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freediving breath hold exercises: Sports François Fortin, 2000 Text and numerous color graphics illustrate the equipment, techniques, rules, and history of 127 sports.

freediving breath hold exercises: The Gate of the Burnt One Philip G Cohen, 2024-05-24

Based on an intriguing alternative history hypothesis, this novel imagines a world where the Moors never left Southern Spain after their 800-year reign but instead expanded their empire across Europe. This fascinating premise is explored through the chaotic lens of a bumbling film crew in the Sahara desert. The director, lost in a haze of Moroccan kif, has embraced the local culture a little too enthusiastically. With the scriptwriters gone and the leading actor in a perpetual sulk inside his Airstream, the production is at a standstill. Enter Tinctorio Indigolin, a bitcoin billionaire on the run from a Shakespeare-quoting Irish assassin. In a bid to leverage a tax loss, Indigolin acquires the film rights, injecting a new lease of life into the project. Mysteriously, a captivating screenplay begins to appear on set, page by page, night after night. Penned by an enigmatic writer, the script proposes a world where the Moors didn't just resist expulsion in 1492 but went on to dominate Spain, France, and Italy, creating an Islamic State of Europe. As the screenplay unfolds, it transforms the lives of everyone involved in the film. The narrative weaves through a labyrinth of twists, assassinations, and narrow escapes, employing the most unexpected methods, only to culminate in the most uplifting conclusion you'll encounter this year.

freediving breath hold exercises: Breath Training Liam Sharma, AI, 2025-03-14 Unlock your potential for enhanced physical endurance and reduced stress with Breath Training, a guide that explores the science-backed practice of breathing exercises. Discover how optimizing your respiration can lead to improved lung capacity, increased oxygen efficiency, and tangible benefits for both your body and mind. The book delves into the physiological mechanisms of respiration, explaining how mastering techniques like diaphragmatic breathing and box breathing can strengthen respiratory muscles and improve oxygen delivery. Breath Training uniquely blends scientific research with practical application, providing a comprehensive framework beyond simple relaxation techniques. It offers step-by-step instructions, illustrations, and modifications for various skill levels, making these powerful tools accessible to everyone. Did you know that controlled breathing has roots in ancient practices like yoga and meditation? Modern science now validates these techniques, explaining the underlying physiological changes. The book progresses systematically, starting with the science of breathing and detailing the anatomy of the respiratory system. It then develops a range of breathing exercises, categorized by their specific benefits, before culminating in a personalized breath training plan. Learn how to incorporate these exercises into your daily life to improve sleep, increase energy levels, and promote overall well-being.

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freediving breath hold exercises: Fearless Louise Minchin, 2023-05-25 WINNER OF THE PEOPLE'S BOOK PRIZE FOR NON-FICTION 2024 SELECTED FOR THE BBC AND READING AGENCY'S BIG SPORTING READ 2024 SHORTLISTED FOR THE SPORTS BOOK AWARDS 2024 - WOMEN'S SPORT WRITING AWARD A WATERSTONES BEST BOOK OF THE YEAR 2023 - SPORT 'Incredibly moving and inspiring' Gabby Logan 'It's brilliant - I loved it' Lorraine Kelly 'Brilliant ... impressive and vividly told' The Times --- JOIN LOUISE MINCHIN ON 17 EXHILARATING ADVENTURES WITH TRAILBLAZING WOMEN WHO ARE BREAKING DOWN BARRIERS, SMASHING RECORDS AND CHALLENGING STEREOTYPES. 'To get to the heart of who these women are... I decided to do it the way that I know best, by taking part, spending time right beside them to experience the things they love.' Driven to bring more attention to female stories of courage and endeavour, Louise Minchin pushes herself to the extreme and embarks on thrilling endurance adventures with trailblazing women. She freedives under the ice in the dark in Finland with Cath, the first woman to swim a mile in the Antarctic Circle; she cycles across Argentina with Mimi, one of the world's most famous female endurance runners; and she swims from Alcatraz with Anaya and Mitali, two young sisters who have braved the shark-infested waters over 70 times. With her natural empathy and sense of humour, Louise forms close bonds with 18 incredible women. She explores what drives them and how they find the resilience and determination to go on despite life's setbacks. Lizzie overcame a life-threatening illness and now paddleboards whilst cleaning up the planet with her community; Rhian set up a charity in the face of grief and fundraises through hikes; and Zee took up rugby alongside her busy nursing career and motherhood. Louise reminds us of the bravery

inside us all, and how essential it is to celebrate women's achievements. Prepare to be touched and inspired by these fearless women.

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