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Foreword

“IT'S TIME TO CELEBRATE. THERE HAS NEVER BEEN A MORE IMPORTANT TIME FOR GIRLS AND WOMEN TO FEEL
valued and empowered.”

The journey is not over yet, but we have come a long way, building on a history of incredible women who have paved the paths for success in every subject imaginable – from science, mathematics and politics to art, design and literature. Many of these women have been hidden behind the scenes or overlooked by their colleagues and historians. But now is the time for them to step into the light and get the recognition they deserve.

It is up to us to truly appreciate the sacrifices they have made, the adversities they have struggled through and the achievements and contribution of their work. Achievements that make womankind an extraordinary family to belong to.

Remember, your accomplishments don't have to be groundbreaking or world famous for you to make a difference. We all have a light to shine and together we can be brighter than the sun. From the moment you get up in the morning,

you are a **WONDER WOMAN.** *”*
LET'S MAKE THE WORLD A BETTER PLACE FOR EVERYONE.

Dr Maggie Aderin-Pocock, MBE, space scientist

How to use this book

This book was made just for you. Use this book to be inspired, to learn the histories of women across the globe, to discover facts and details you never knew before and to step into the shoes of some of the most incredible women to have ever existed by getting involved in the activities.

There are thought-provoking questions, quizzes, make-and-do challenges, drawing projects and much more to explore. But where to start? Take a look at the contents list and choose who you want to read about – it might be someone you're already familiar with or someone you have never heard of before.

At the end of the book there is space for you to design your very own entry. You can use these pages to think about why you are such an important person. Where have you come from? Where are you going? What do you want to achieve? No matter what your dreams are, you can take your place among these incredible figures.

ADA Lovelace



British
mathematician
1815 - 1852

Ada was not only an awesome mathematician. She is also considered to be the world's first computer programmer.

Ada's dad was Lord Byron – he was quite a famous poet, but Ada's mum thought Lord Byron was a useless layabout. She wanted her daughter to be different. Ada was taught maths and logic, and turned out to be a bit of a genius. She was even made to lie still for long periods of time to develop her self-control. Perhaps this is why she became interested in designing her own set of wings. At age 12 she investigated different materials and sizes for wings and wrote a book called *Flyology*.

THINGS TOOK OFF FOR ADA WHEN SHE WAS A TEENAGER AND MET MATHEMATICIAN CHARLES BABBAGE, WHO IS KNOWN AS 'THE FATHER OF THE COMPUTER' BECAUSE HE INVENTED THE FIRST MECHANICAL COMPUTER. BUT IT WAS ADA WHO EXPLAINED BEFORE ANYONE ELSE THAT COMPUTERS COULD BE USED TO CARRY OUT A SET OF INSTRUCTIONS, KNOWN AS AN ALGORITHM.

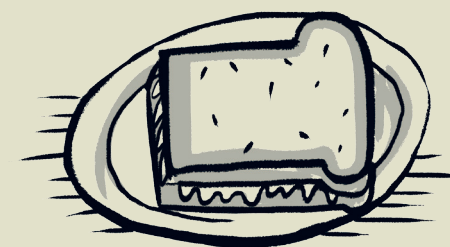
Sadly Ada died young, at 36 years old, but not before she had made her mark as one of the most important names in computing history.

What's an ALGORITHM?

Algorithms are incredibly important to modern computing, and are essential to the way computers process information, or data. Using algorithms, computers can carry out useful tasks, such as calculating complicated sums or printing large amounts of material.

The CHEESE sandwich CHALLENGE

Computer coding is all about breaking big tasks down into small steps. Put yourself to the test and see if you can write an algorithm for making a cheese sandwich.



1. Buy CHEESE AND BREAD

Write down detailed step-by-step instructions for making a cheese sandwich. Make sure that you include every single detail and that all the steps are in the correct order.

2. Test THE CODE

Give your code (and all the ingredients and materials needed) to a friend. Ask them to follow the instructions as if they're a robot who has never made a sandwich before. They are not allowed to do anything that isn't written down.

4. Test and DEBUG

Repeat the test until your code is flawless and the sandwich is delicious!

3. DEBUG

Has your friend made a normal-looking sandwich? If yes, congratulations, your algorithm worked. If no, debug your code by adding in additional steps or switching them around.

Amelia EARNHART

1897 - 1937

AMERICAN AVIATION PIONEER AND AUTHOR

"Women must try to do things
as men have tried. When they
fail, their failure must be
but a challenge to others."



WHY WAS AMELIA AWESOME?

In 1932, she set out to become the first female pilot to fly solo across the Atlantic Ocean.

She took off from Newfoundland. To keep up her strength she sipped tomato juice through a straw.

Just under 15 hours later she landed safely in Ireland in a field full of startled cows. She had set a new Atlantic flight record.

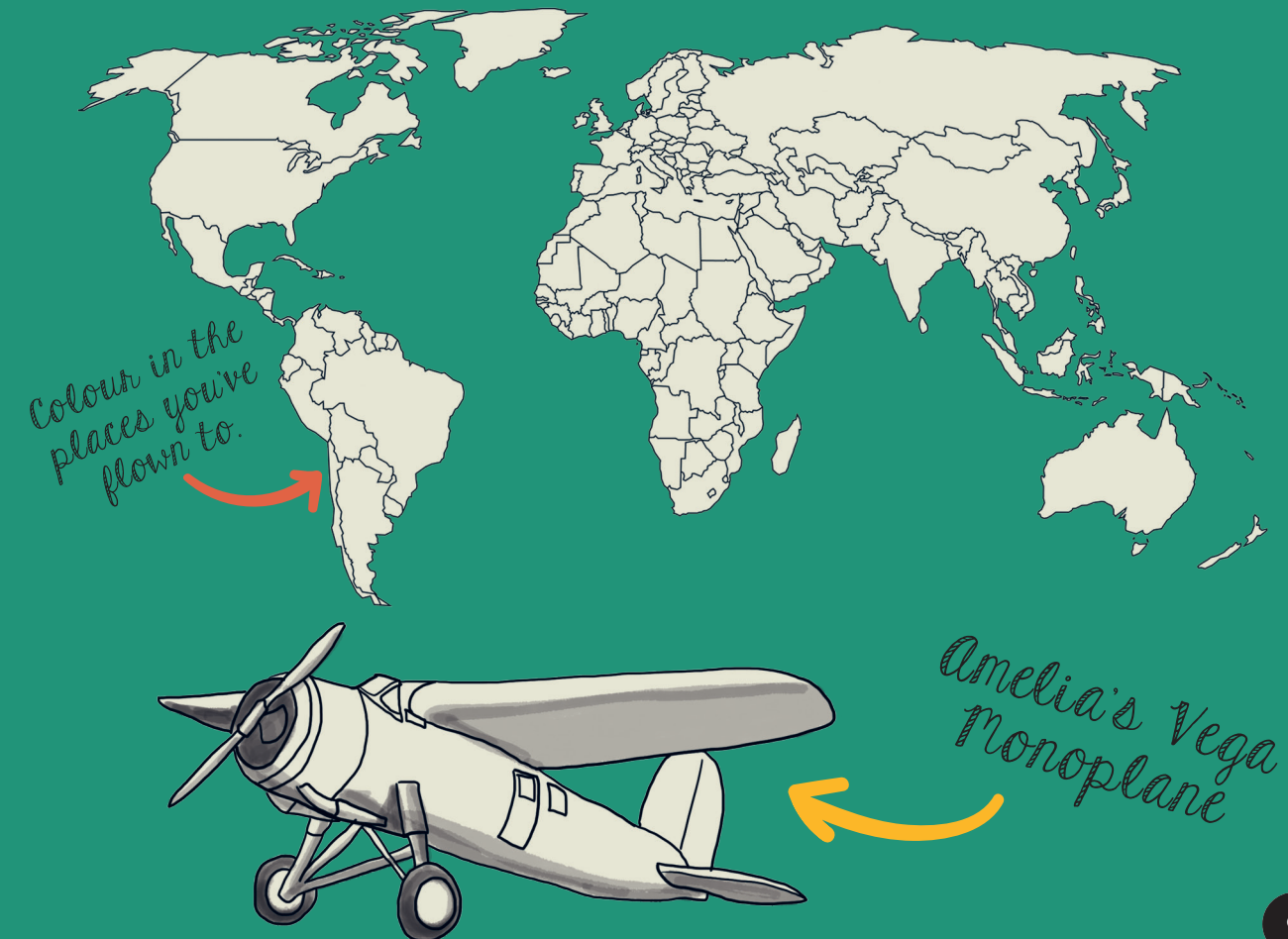
She wrote bestselling books about her experiences and helped form The Ninety-Nines, an organization for female pilots.

Amelia set out to fly around the world in 1937, but disappeared in the mid-Pacific and was never seen again.

WHY WOULD BEING A PILOT BE AMAZING?

IF YOU COULD FLY TO ANYWHERE IN THE WORLD, WHERE WOULD YOU GO?

WHAT WOULD YOU EAT ON YOUR
FLIGHT TO STAY STRONG?



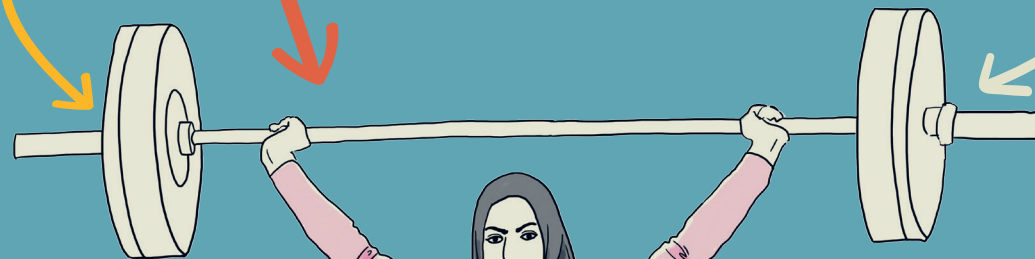
BORN 1989

Professional weightlifter from the United Arab Emirates

ANNA

al Haddad

STARTED WEIGHTLIFTING AT 19 YEARS OLD



Former journalist who wrote about inspirational young women

First and only Muslim woman to compete in the Asia Regional CrossFit Games in a headscarf in 2012

IS AN INSPIRATIONAL SPEAKER AND ENCOURAGES GIRLS TO PURSUE SPORTS PROFESSIONALLY

Uses her success to make weightlifting accessible to other women

With Nike, she designed their Pro Hijab - a breathable, lightweight head covering that can be worn by Muslim athletes

Want to try it?

BEFORE SHE GOT INTO FITNESS, ANNA HAD NEVER EVEN CONSIDERED WEIGHTLIFTING AS AN OPTION, BUT WHEN SHE TRIED IT SHE LOVED IT.

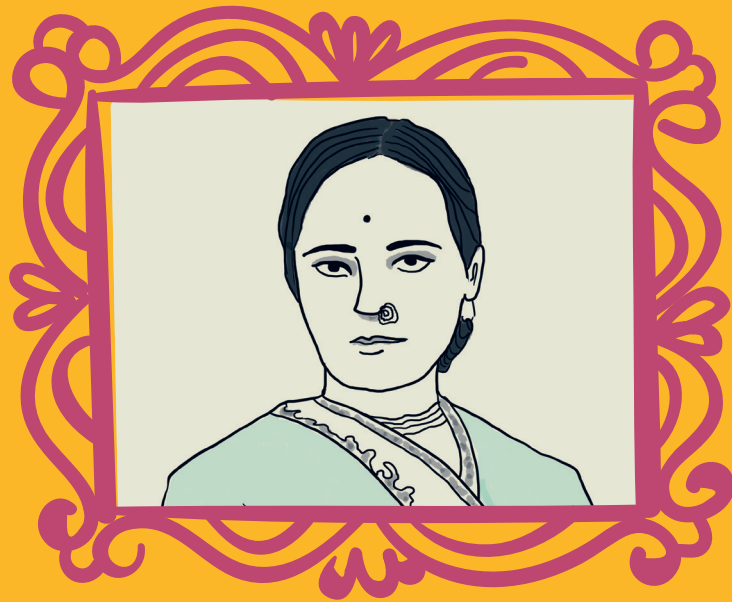
Fill out the tick-box list below. You might be like Anna and find you develop a passion for something you'd never considered before. Make it your mission to try as many of these sports over the coming year as you can.

Sport	Would like to try it	Tried it	Loved it!
Archery			
Athletics			
Badminton			
Basketball			
Boxing			
Canoeing			
Cycling			
Diving			
Fencing			
Football			
Golf			
Gymnastics			
Handball			
Hockey			
Judo			
Rowing			
Rugby			
Sailing			
Swimming			
Table Tennis			
Taekwondo			
Tennis			
Trampoline			
Volleyball			
Water polo			
Weightlifting			
Wrestling			

Anandibai JOSHI

Indian doctor

1865 - 1887



At the time that Anandibai was born in India there were no female doctors in the country. Very few girls even went to school. Anandibai was married at the extremely young age of 9 to a man called Gopalrao Joshi.

Gopalrao wanted to help Anandibai get an education. One day, when he found Anandibai helping her grandmother to cook, he said she should get back to her books! This was a very unusual attitude in India at that time.

When Anandibai was 14 she had a baby boy, but he only lived for ten days. Anandibai wanted to help prevent other people from suffering this kind of tragedy. She addressed the people who lived in Serampore and told them that she wanted to go to America to train as a doctor. She explained that there was a need for female doctors and that she wanted to open a medical college for women in India. Her message spread across the country and lots of people supported her and gave her money.

Anandibai fulfilled her dream and graduated from the Women's Medical College of Pennsylvania at the age of 20 and returned to India to a triumphant welcome. She died the following year from tuberculosis and was mourned across the country, but she had paved the way for a new generation of female doctors in India.

Women's WORK

IN MOST PARTS OF THE WORLD NOW, THERE ARE MANY FEMALE DOCTORS. BUT CAN YOU THINK OF ANY JOBS THAT WOMEN STILL DON'T TYPICALLY DO? TRY TO LIST FIVE BELOW AND BESIDE EACH THINK OF A WOMAN OR GIRL WHO WOULD BE BRILLIANT AT THIS JOB.

JOB

What woman or girl do you know who would be awesome at this job?

When I grow up I want to be a

I would be amazing at this because ...
