

HAPPY SCIENCE

memory card game



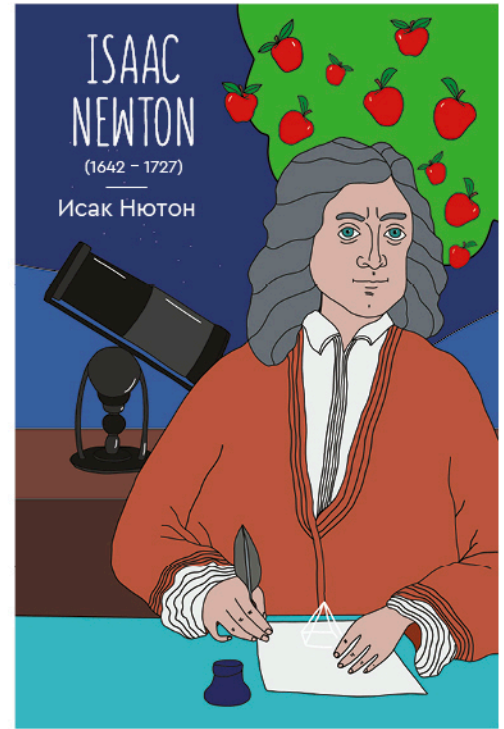
Hello. My name's **Maxim**.

Let me ask you a question: Is an apple enough to confirm that you're a genius? I have a quick answer for you: it would be if you were **Sir Isaac Newton**. Legend has it that while he was taking a nap under a tree, an apple fell down and hit him on the head. Newton started thinking why fruits fall downwards and not fly off in any other direction. In a while he formulated the gravity law which explains why things are attracted to the earth. You've noticed it yourself:

no matter how hard you kick a ball, it always falls to the ground. And now you know why! The Earth attracts everything to itself, from raindrops to airplanes. You can see it with a naked eye. However, Sir Isaac Newton explained it scientifically, alongside the three Laws of Motion.

He was born in Great Britain and was a mathematician, a physicist, an

astronomer, the Treasury manager, and most of all – a person who didn't believe in anything that couldn't be calculated or scientifically proven. Star sign: Capricorn.



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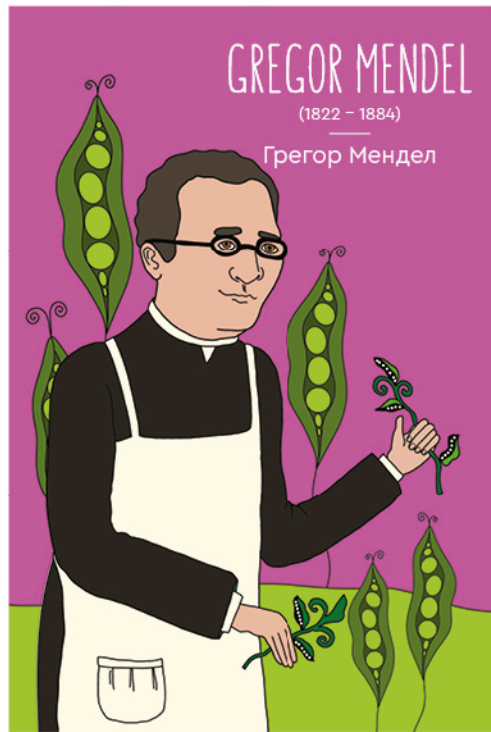
Hey, I'm Raya.

Do you like playing chess? Do you like bees? If your answer is Yes, then you have the same hobbies as **Gregor Mendel** – the gardener-monk who made the first experiments on genetics via hybridisation of pea plants while studying them.

What's genetics? If you look like your mum or dad, or granny or grandpa, then you take after them. And you have their genes. You were born with them. You have inherited their genes.

Gregor Mendel is called The Father of Genetics – the science for those inherited features or traits via genes. The science, however, developed years later. He was born in the Austrian Empire.

Star sign: Cancer.



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Hola! My name's **Miranda** and I have something really important to tell you!

The fact that we can drink milk in the morning and not fear infections, is no simple thing. We owe it to a scientist. Who's he? Repeat after me: **Louis Pasteur.**

Star sign: Capricorn. He was born in France, loved painting and fishing. He studied in Paris and committed himself to chemistry and biology. In his studies he proved that when we heat milk to the point of boiling, we kill all bacteria in it. So this method was named after him: pasteurization. And besides milk, the method can be used for pasteurizing fruit juice, eggs, cans and other foods. And now, off to the kitchen to get your hot chocolate, as long as your parents agree, of course.



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Hey, I'm **Sophie!**

Have you heard of Mrs Puff?

Mrs Puff is a cat! And no one would have heard of her, had she not been **Ada Lovelace's** best friend!

Ada was a real dreamer but besides poetry, she also loved numbers. She managed to find incredible uses of math. For example, she coined and wrote a code, called algorithm, which computers use even today. Little Ada, the great dreamer, became the first ever programmer.

You see how your dreams can soar by using science and your imagination?

Ada was born in England. She was Lord and Lady Byron's daughter. Yes, her father, Lord Byron, was a genius of a poet but we're going to talk about him some other time.



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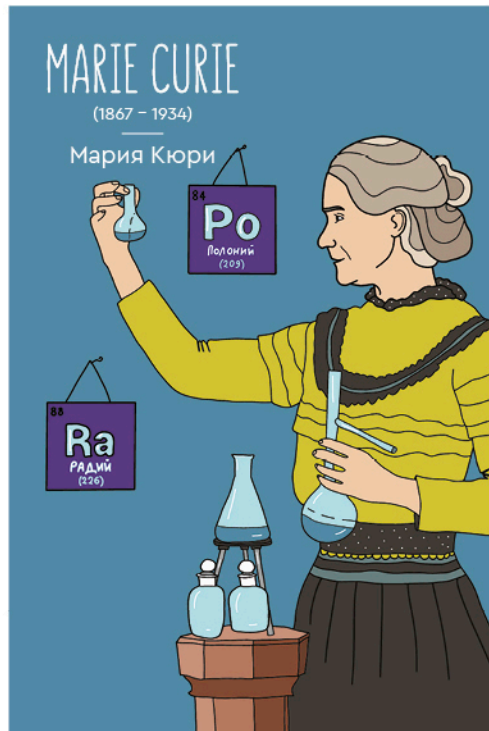
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Hello, I'm **Elizabeth!**

I bear a royal name. Which girl wouldn't want to be a princess, even for a day? Well, let me tell you about a girl, called Marie, who was drawn to physics and chemistry a lot stronger than to glamorous dresses and expensive jewels. Little Marie could seem a bit weird to you but don't all brilliant people have their peculiarities?

In times when science was a territory, reserved for men, **Marie Curie** learnt physics and chemistry and became the best mathematician and physicist in all of Paris. And perhaps in the whole world, since she received the Nobel Prize, together with her husband Pierre Curie and then another Nobel Prize for chemistry, this time by herself. Their daughter, Irene Curie, was also awarded the Nobel Prize for chemistry while their son-in-law received the Nobel Peace Prize. It's a really rare occasion to come upon such a family, with so many awards and successes, isn't it?



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Hi, I'm Ivo and I'm going to tell you about a genius, born in Poland in 1473.

His name was **Nicolaus Copernicus** and he was the astronomer who proved the movement of the Earth through science. According to Copernicus, the Sun was in the centre of the Universe while the Earth and the other planets rotated around it. It seems he was right!
Copernicus was also the inventor of the hydraulic system.
Another interesting fact is that he was a practising doctor for 40 years!



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Nice to meet you, I'm **Dalia!**

Your parents worried that you started speaking late? Tell them that **Albert Einstein** was in no hurry either. And he was awarded the Nobel Prize! You might receive one too, if you discover or invent something truly great!

According to Einstein, if bees disappear, people will be left with 4 years of life. Never forget how important bees are for our planet! As a physicist, Einstein explained to the world that everything is relative. When you come to think of it, one hour of playing games seems like nothing, right? But when you're studying something really hard, like math, one hour can seem like forever. Einstein was proclaimed The Person of the 20th Century.

When we hear the word "genius", the first name that comes to mind is Einstein. And like most geniuses, he had his eccentric habits: he didn't like wearing socks, his hair was always messy and he could play the violin while translating texts from Latin or ancient Greek.



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So here comes **Dara** to tell you a story. Enchanté!

Have you heard the saying "One sometimes finds what one is not looking for"? Let me tell you about the person who said it. Another genius, another Nobel Prize winner. This

time it's the prize in medical science: he discovered penicillin, the first antibiotic ever. And it has saved millions of lives. It was, however, the result of a random discovery. While working in his lab, the

doctor noticed that among his many tubes and Petri dishes, there was on one totally moldy. He discovered that where there was mold, there weren't any bacteria. The doctor's name was **Alexander Fleming**. And he humbly said: "I haven't discovered anything. I simply noticed something that the Lord has already done for mankind."

Alexander Fleming was born in Scotland. Star sign: Leo.



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Hi, my name's Vivian.

Rivers and mountains on Earth have names, don't they? Likewise the craters on the Moon have theirs. One of them is called Mendeleev, named after the Russian scientist, **Dmitri Mendeleev**. He was a chemist, physicist, economist, technologist, geologist, teacher, lecturer, aeronaut, and instrument builder. We can't remember all his jobs, can we?

Star sign: Aquarius

And like all geniuses, he was quite eccentric: his hobby was making suitcases!

When you look at the Periodic Table in your chemistry classes, remember that Dmitri Mendeleev created it.



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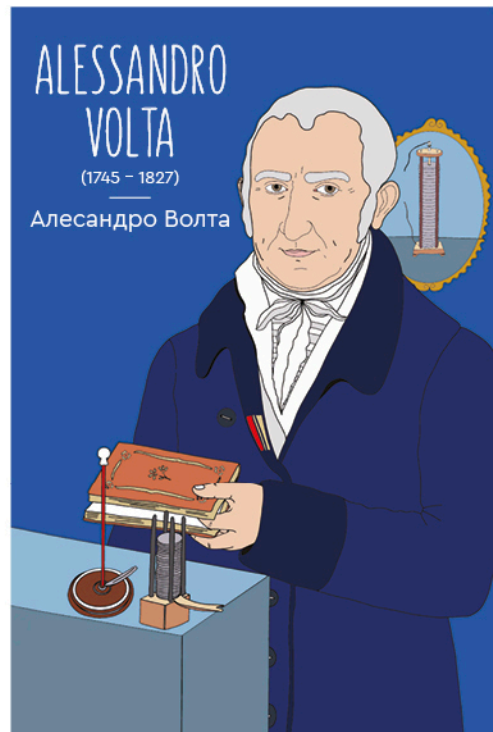
Zacchari is going to tell you about **Alessandro Volta**.

"I had a diamond at home but I wasn't aware of it," said Alessandro Volta's father. That's what I tell my parents, too, but all they do is laugh me!

Alessandro Volta uttered his first word when he was 4 and then kept silent till the age of 7! Can you imagine that? And this seems to be the thing that makes us different: I can't stop talking! Or at least my mum tells me so.

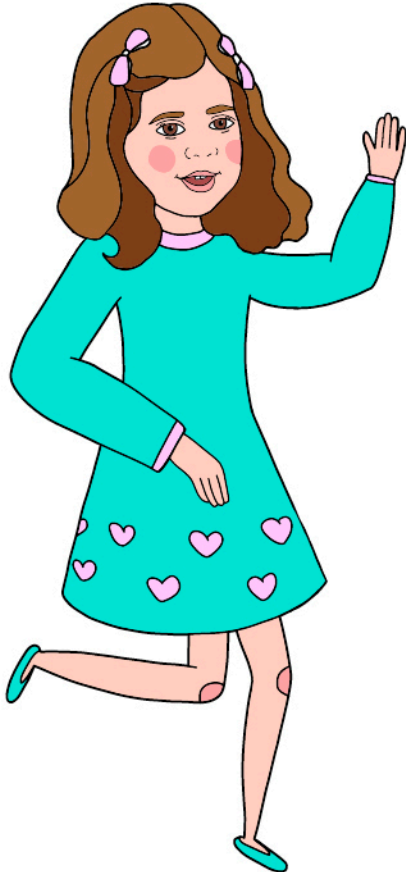
But let me continue with Alessandro's story: despite his late start, he became fluent in Latin, French and English. He also spoke German, Russian, Spanish, and ancient Greek. Quite the learner! He became physicist and chemist and eventually invented the electric battery. You can ask your parents to show you one.

Star sign: Aquarius.



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Hello, I'm **Sophie** and I love travelling. Just like Darwin.

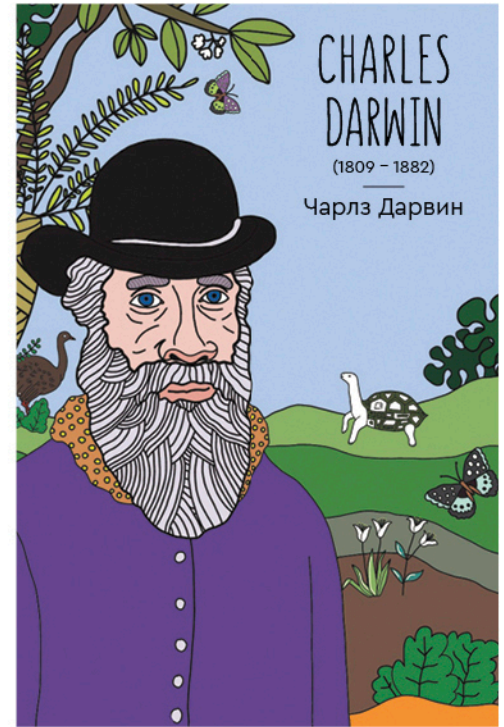
The Galapagos Islands are located in the Pacific Ocean. The translation of "galapagos" is "giant tortoises".

Who do you think named it? I'll tell you right away: Charles Robert Darwin, the naturalist.

This might be a new term for you: a naturalist!

He was born in England in 1809.

His star sign: Aquarius.



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Hello, I'm **David**. And I'm going to tell you about Galileo!

"And yet it moves!" What's it? Let me introduce to you the renowned scientist, **Galileo Galilei**. He was the first to use a telescope to observe the night sky. With time, he came to the conclusion that the Earth moves and rotates.

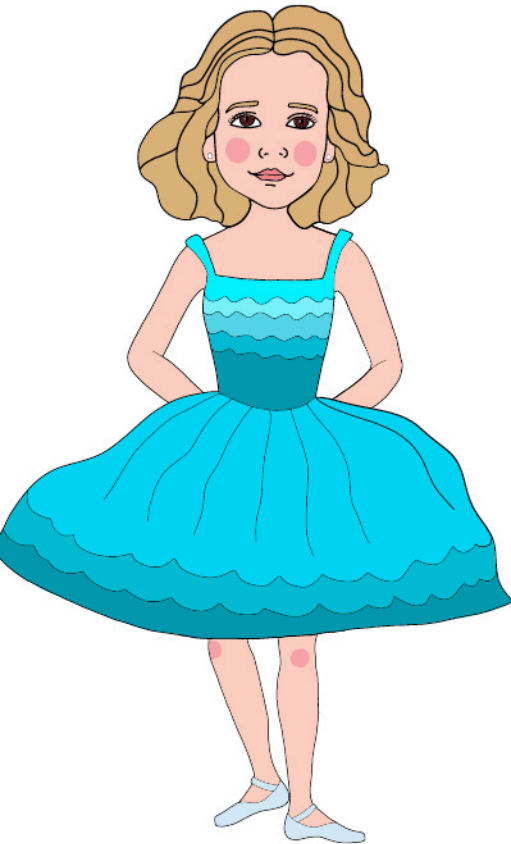
When we look up to the stars, what do we see? A mystical whitish strip we call The Milky Way. Galileo's observations also show that The Milky Way comprises clusters of thousands, millions, even billions of stars.

Galileo Galilei was born in Italy.
Star sign: Aquarius, just like my Mum!



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Hi, my name's **Magdalene!**
Do you like taking photos?

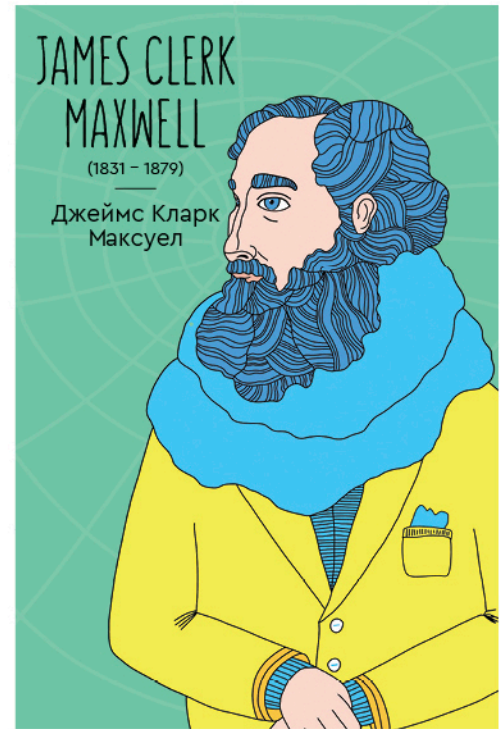
If you do, then perhaps you'll be curious to learn who the father of color photography is.

He is one of the greatest physicists of all times, alongside Newton and Einstein, and his name is **James**

Clerk Maxwell, a Scotsman. His scientific achievements, formulas and models are hard to grasp even for some of his colleagues.

Star sign: Gemini

We're not going to delve into the depths of physics but I'll just mention that he is considered to be the creator of color photography.



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Hi, I'm Aya and I love listening to the radio while mum's driving.

Imagine what would happen if all radio stations stopped transmission for 2 minutes worldwide! Sounds impossible. However, that's exactly what happened in 1937!

The Nobel Prize winner in physics, co-inventor of the radio and the founder of the Vatican Radio Station, the man awarded the Marquis title, passed away and in his memory all radio stations all over the world went silent for 2 minutes.

Let me introduce to you Guglielmo Marconi, the Italian physicist. Star sign: Taurus, like me.



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How do you do! My name is **George** and I'd like to begin with the following quote:

"Give me a lever and I shall move the Earth!" These are not my words, they belong to **Archimedes** – the scientist from Syracuse.

And another curious fact: in Greek Eureka means "I have discovered".

The phrase has gained its popularity, based on a legend, depicting Archimedes, running naked along

the streets of Syracuse, and shouting at the top of his voice: "Eureka!"

While he was bathing in his tub, he discovered a way how to measure the amount of gold in the crown of King Hiero II because the King claimed he had been swindled by a jeweller. Archimedes' method was measuring how much water would leak out of the tub after an item had been immersed therein.

Today, this invention is known as the notable Archimedes' Principle.



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Hello again! I'm Raya! I have the privilege to tell you about a **young girl with exceptional mind and very strong in spirit.**

Please meet Mary Jackson from Virginia, USA.

Mary was so bright and loved maths so much that she devoted years of her life to conscientious and thorough work with numbers. It was recognised that her calculations helped NASA and space flights. And as all American children who are proud of their astronauts, it's good to remember Mary Jackson, alongside all the famous astronauts and space explorers.



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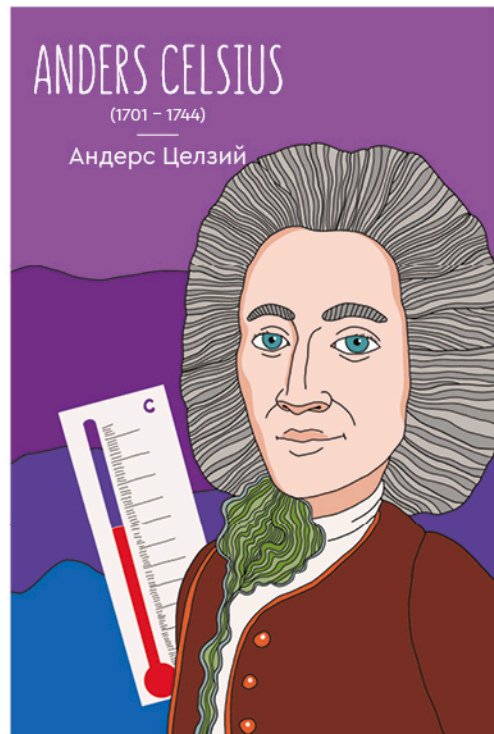
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Bonjour! My name is **Victor** and I'm here to tell you about another great scientist.

Anders Celsius was a Sagittarius, like you perhaps? Swedish astronomer, mathematician and physicist. When your parents take your temperature, they say "38 degrees Celsius", because he invented the more accurate scale for measuring temperature.

He was also a poet and author of popular science books.



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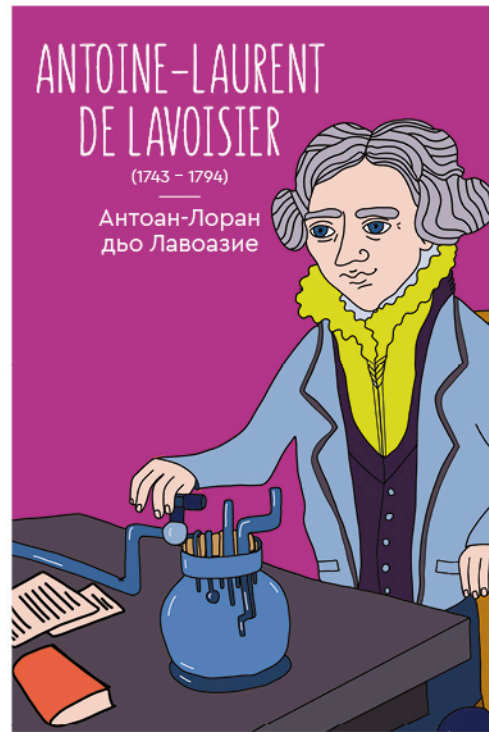


Hello, my name is **Michael!**

And this is **Antoine-Laurent de Lavoisier**, a French scientist, one of the founders of modern chemistry. He became famous with the discovery of the role of oxygen in the process of burning.

You can do a small experiment. But make sure that at least one of your parents is present while doing it: Take a candle and light it, then cover it with a glass jar. Several seconds later the candle flame will go out. Why is that? Because you've cut the oxygen supply and without oxygen supply the process of burning is not possible. Antoine was a real genius, like me!

Star sign: Virgo, again just like me!



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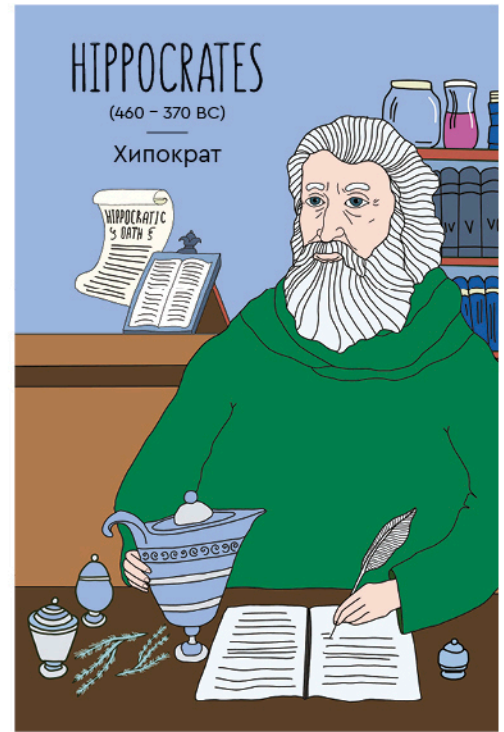
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Hey there! I'm **Yana**.
I can't wait to tell you about
a clever and conscientious
man, **Hippocrates**.

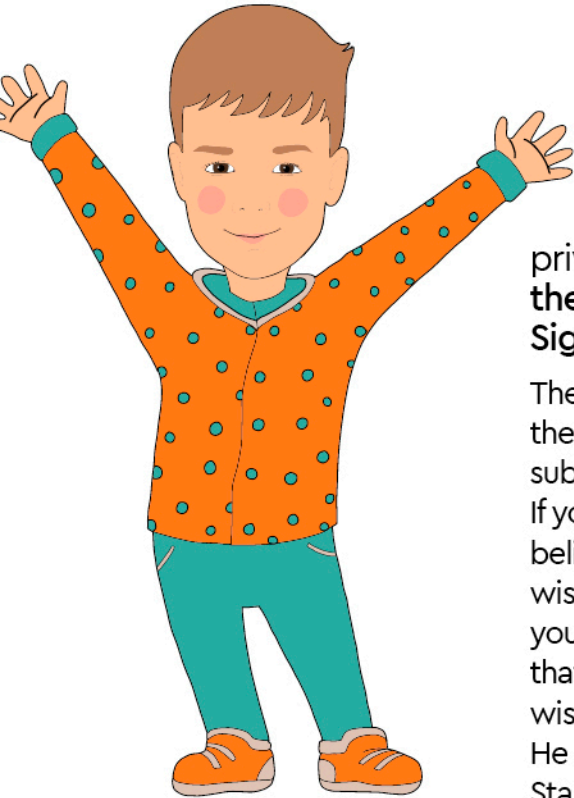
"Do no harm!" That's what the
ancient Greek doctor postulated.
No matter if you're a doctor or not,
try to do no harm.

Another famous statement of his is that sicknesses come as a result of
our character, our diet, our habits and the environment. Sounds logical
to me, doesn't it?



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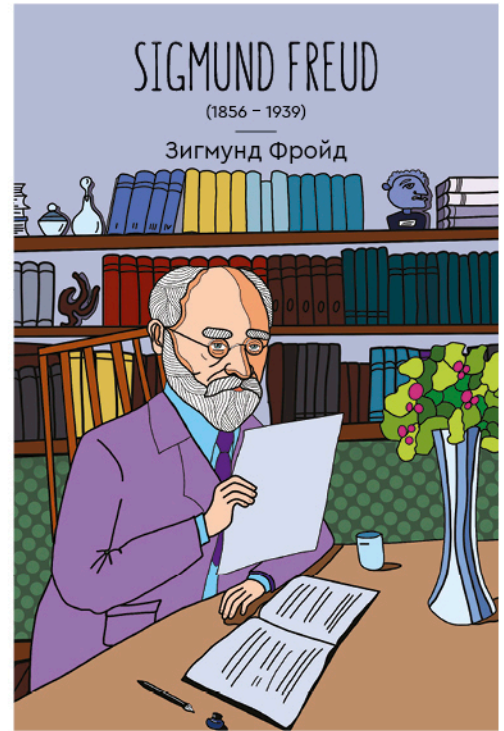
Dear friends, I'm **Christian** and I have the privilege to introduce to you **the father of psychoanalysis, Sigmund Freud.**

The psychiatrist who treated the mind by exposing its subconsciousness.

If you have strange dreams, Freud believed that they were unfulfilled wishes. He loved reading Homer and Shakespeare, even at a very young age. Freud spoke several languages. You should agree with me that he had a very interesting job: revealing the feelings and hidden wishes of people in order to help them be happy!

He was born in the Austrian Empire in 1856.

Star sign: Taurus.



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Attention, please! My name is **Kalina** and I'm going to share something really interesting with you:



Until recently, I thought that Tesla was a car but I've just learned that the name was chosen to commemorate one of the most original scientists of all times! We can call him a genius with multiple talents. Have you ever heard of anyone that memorizes a book after reading it just once? Well, now you can say: Yes, I have – **Nikola Tesla** was exactly that kind of man.

He was an engineer, a poet, an inventor with hundreds of patents of inventions that have made a difference to our lives. And we are yet to see and experience more of his ideas because mankind has not seen them all yet: it's only scientists who are delving into his ideas today but we are about to see them and use them to make our planet greener and cleaner.

Star sign: Cancer. He was a vegetarian who'd walk for hours in order to get his thoughts together and clarify his ideas, while reciting poems.



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Here I am again, **Maxim**. Let me finish this booklet with **Aristotle**.

If you've heard the saying: "You're quite a philosopher!" perhaps the person who said it meant that you were like Aristotle! His name in Greek meant "the best purpose", but his classmates called him "brainiac". He is known as the Father of Science because he was one of the greatest geniuses of Antiquity.

You see? Science has its father too! Regarding the word Antiquity: this is the historical period during which the great-great-grandfathers of your great-great-grandmothers lived.

"Excellence is never an accident. It is always the result of high intention, sincere effort, and intelligent execution; it represents the wise choice of many alternatives – choice, not chance, determines your destiny."

"Be a free thinker and don't accept everything you hear as truth. Be critical and evaluate what you believe in."

Those are famous Aristotle's sayings.

ARISTOTLE

(384 – 322 BC)

Аристотел

