



Mathigon (Freelance or Permanent)

Senior Curriculum Writer

About Mathigon

Mathigon is an online learning platform for mathematics. Our goal is to develop the world's best online maths content, and transform education by making it more interactive, personalised and engaging than ever before. We want everyone to be able to enjoy learning mathematics, and appreciate its beauty and applications.

Mathigon was developed by Philipp Legner, starting just as a spare-time outreach project, but has grown into a platform with more than 400k active users per year, and won some of the biggest EdTech awards around the world.

The primary product is an interactive, online textbook for students aged 11-18. We call it the "Textbook of the Future", but it is so much more than just a book. Rather than watching static videos, rote learning or multiple-choice questions, we want students to be able to explore, discover, be creative, learn problem-solving, and gain a deep understanding of mathematics. The content is uniquely interactive and personalised, and filled with real-life applications, colourful illustrations, and engaging storytelling.

Mathigon has been called "a true mathematical wonderland" by The Guardian, and "a front-runner for a new generation of textbooks" by Common Sense Education. You will be one of the first new people joining the team, with an opportunity to have a significant impact not just on our company, but on mathematics education around the world.

Your Role

We are looking for someone to lead the creation of new courses for middle and high-school mathematics (KS3-5). This includes researching existing textbooks and materials, identifying interesting storylines and real-life applications, writing engaging explanations and narratives, identifying suitable illustrations and visualisations, as well as designing rich problems and interactive learning experiences. You will have to come up with innovative new ways to present mathematical concepts, and understand which mistakes and misconceptions might confuse students.

Developing our interactive content is a time-consuming process and requires a wide range of skills, but of course you won't be on your own. You will work closely with illustrators, graphics designers and software engineers to let your vision come to life. We want to combine the latest technologies, best UX practices, and most successful ideas from education research, to create some of the best educational content in the world.

Mathigon's content is written in a custom version of Markdown (similar to the language used for annotating Wikipedia articles), and we use GitHub to manage revisions and releases. In the future, you might also work on research projects in schools, or engage with teachers around the world.

Mathigon is based in London, but we are building a remote team so you can work from anywhere in the world. You can also work part-time or as a freelancer, but you should be available for at least 16 hours per week. Join our new team if you love mathematics, and you're excited about sharing that love with others.

Requirements

Since our team is so small, we are looking for people who have a wide range of skills, and are excited about learning new ones. These requirements are just a wish list, and we'd love to hear from you even if you don't meet all of them. The ideal candidate

- is unusually creative and imaginative;
- loves mathematics and is excited about sharing this love with others;
- has some teaching experience, for example in a school, as a volunteer, or as a private tutor;
- has a good understanding of the secondary mathematics curriculum and mathematical pedagogy;

- has some experience in creating visual or interactive educational content, for example YouTube videos, Geogebra applets, Desmos activities, blog posts, or lesson plans;
- has a strong background in mathematics, for example a university degree in a STEM subject;
- understands why *active learning* is more effective than watching a video or listening to a lecture, and has ideas how to use the power of new digital platforms to change how we teach;
- has a basic understanding of HTML, CSS, JavaScript and GitHub, and is able to quickly learn new technologies;
- is an excellent communicator and has fluent command of the English language.

Perks

- Competitive salary, stock options and benefits.
- Flexible working hours and remote positions. 25 vacation days per year.
- Visits to conferences and professional development.
- Opportunity to join an early-stage startup, and many new opportunities as it grows.
- A chance to work on something impactful and transform education!

Application Process

If you are interested in any of the roles above, or if you have other ideas how you could contribute to Mathigon, please email careers@mathigon.org with your CV. Tell us what excites you about this role, your favourite parts of mathematics, and links to any relevant projects you've worked on (e.g. videos, blog posts, interactive content, or GitHub repos).

The application process will include one or more video calls over Google Hangouts, and we may ask you to write a short article that explains a mathematical topic of your choice in an engaging and interactive way.