Lego Mindstorm: Lesson 1
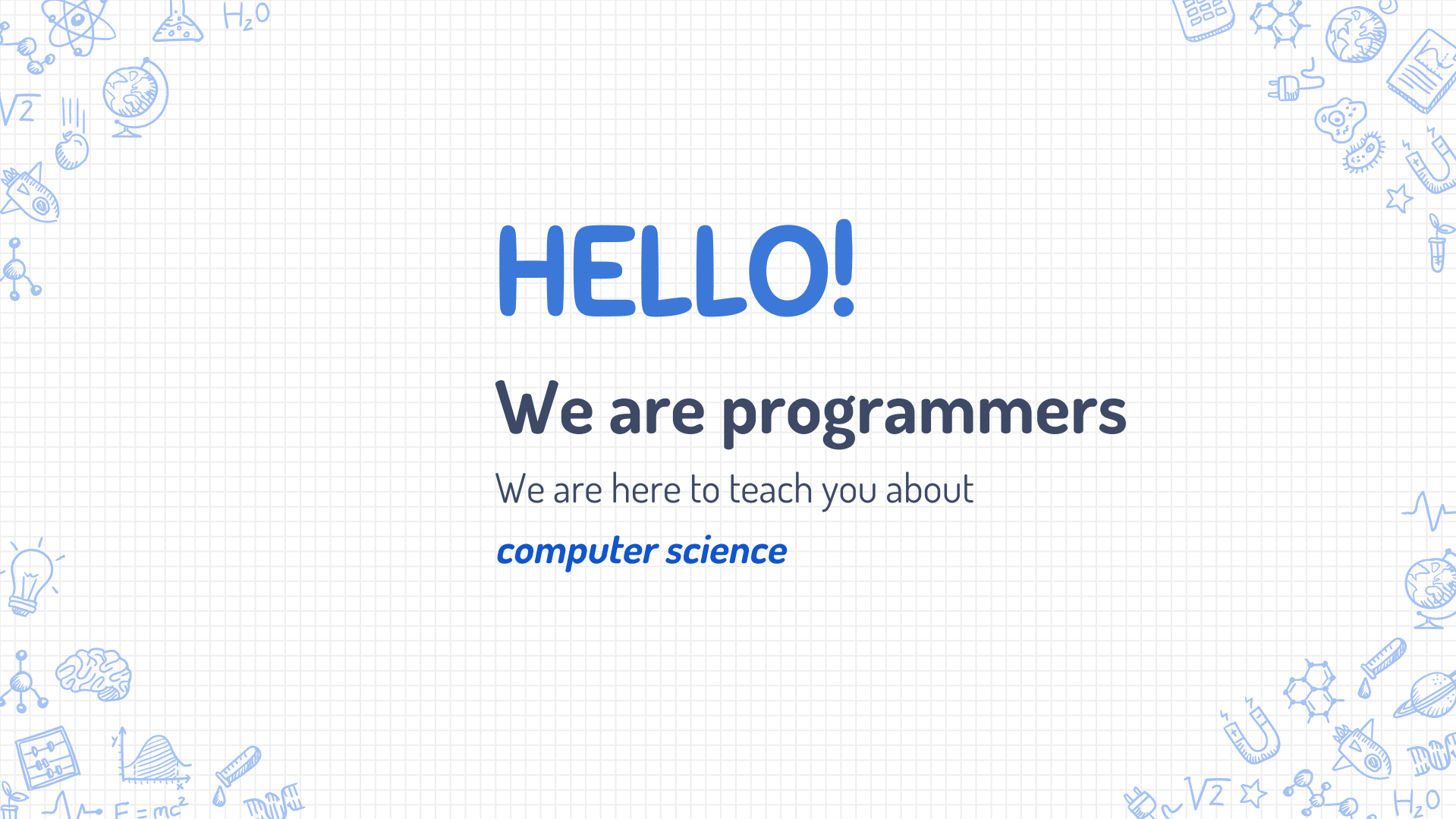
HELLO!

We are programmers
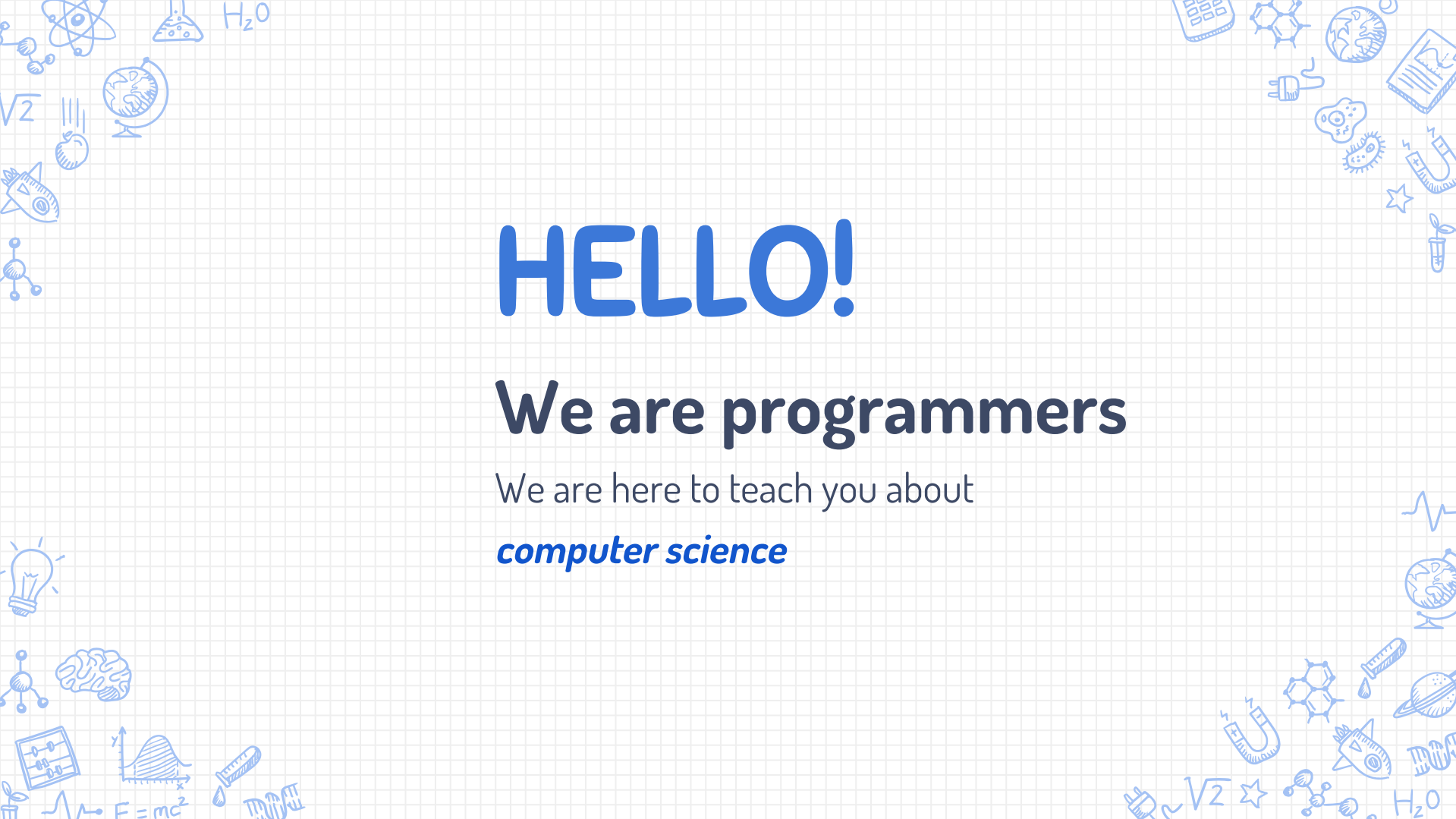
We are here to teach you about

computer science

Let's start with a question

Who has played with Legos® before?

We brought robots!

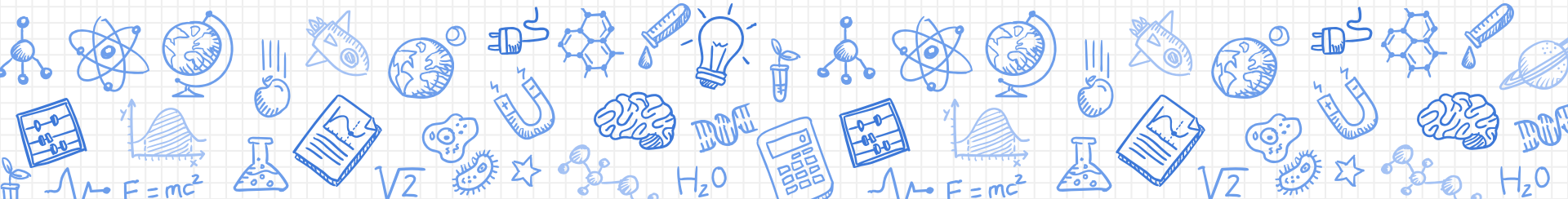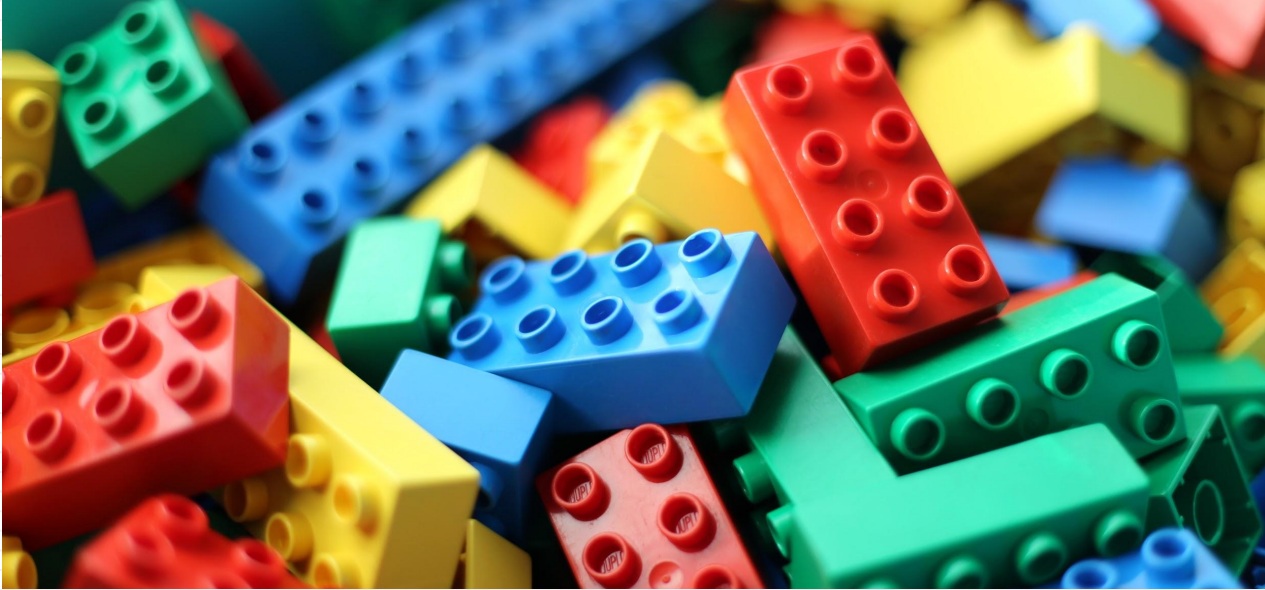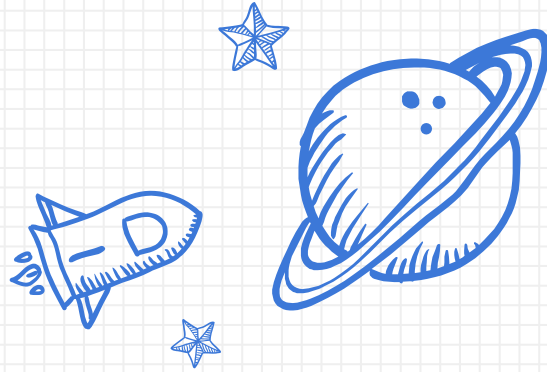We will be working with Lego® Mindstorm robots!
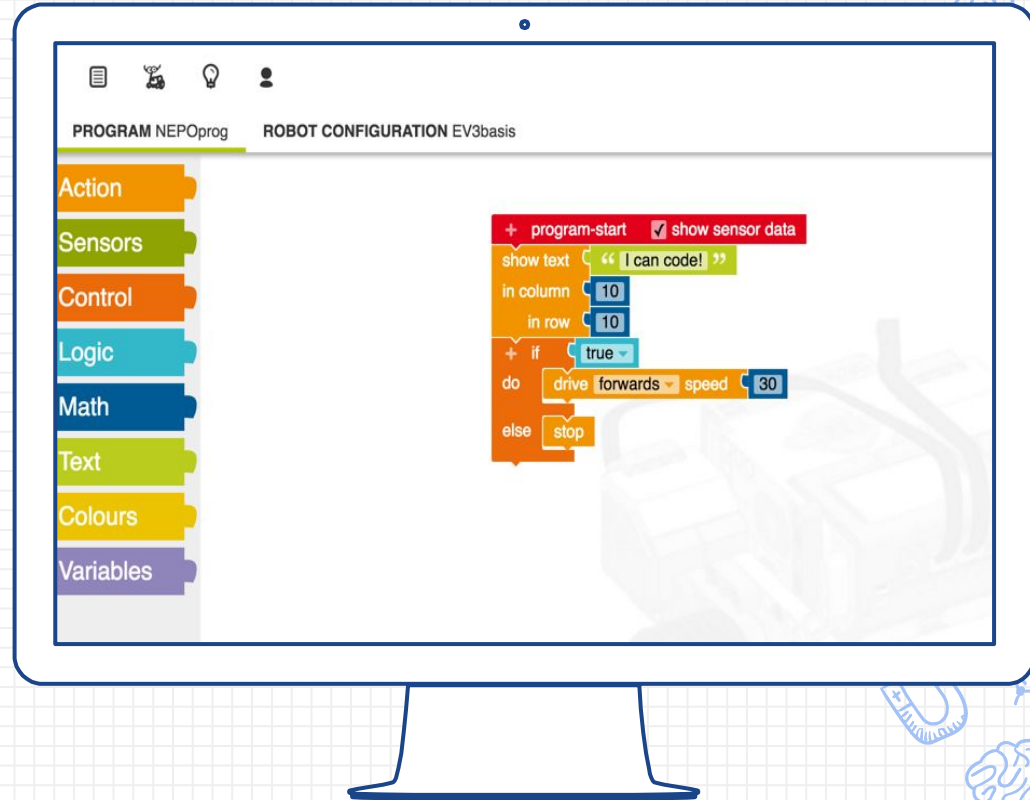
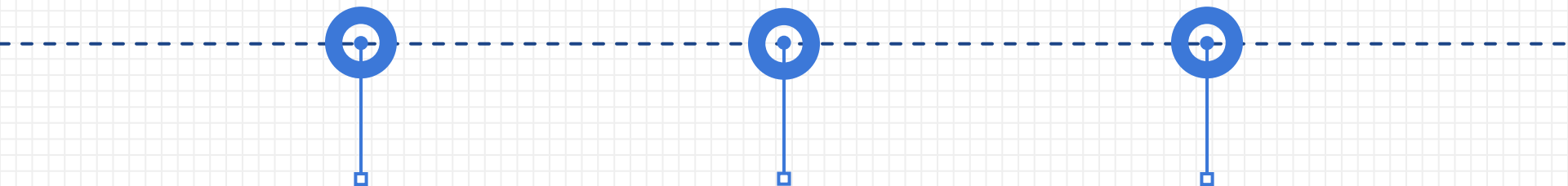Here are some cool robots!

Computer Science

A sequence of instructions that a computer
can interpret and execute.

Lego® Mindstorms

This is what we will be using to make the robots move and interact!

Let's do a test run!

Turn on the robot by holding the center button

Go to Open Roberta and click "Start"

Let's make the robot say hello!

We can tell the robot what to do using computer science

What is computer science?

Computer scientists write code to give instructions to computers.
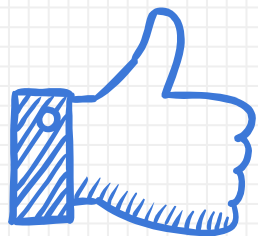
Hardware v.s. software?

Our hardware (the computer) is our robot! Our software (downloaded on the computer) is Open Roberta, where we write code!

Forward and Backward

Let's tell the robot to move forward for 10 cm and backward for 10 cm.

Let's do it!

Any questions?

Rules:

- ✘ Stuck? Ask a mentor!
- ✘ Work together!
- ✘ Take care of the robots.

Credits

Special thanks to all the people who made and released these awesome resources for free:
- ✘ Presentation template by <u>SlidesCarnival</u>
- ✘ Photographs by <u>Unsplash</u>