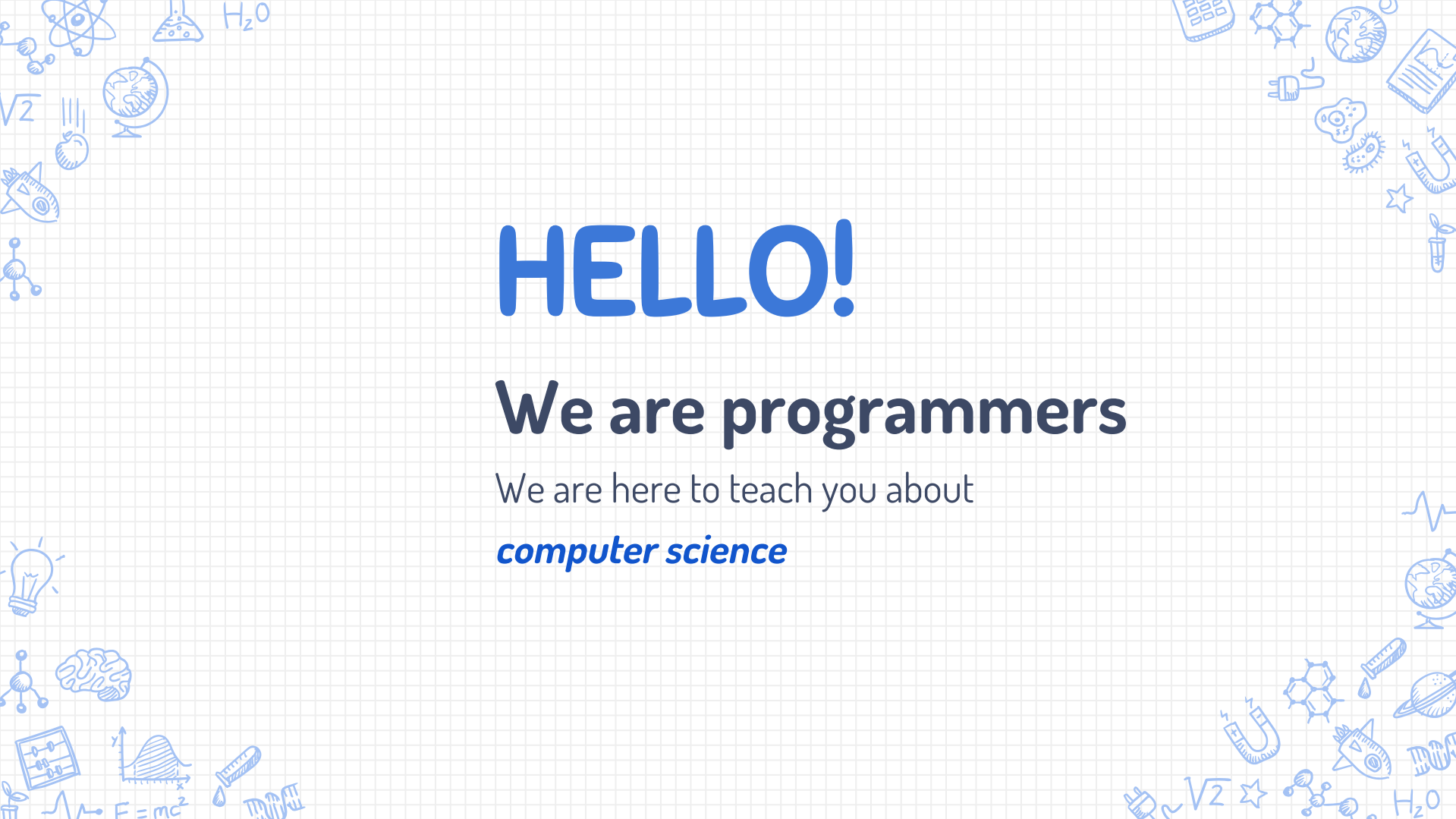


# Lego Mindstorm: Lesson 1

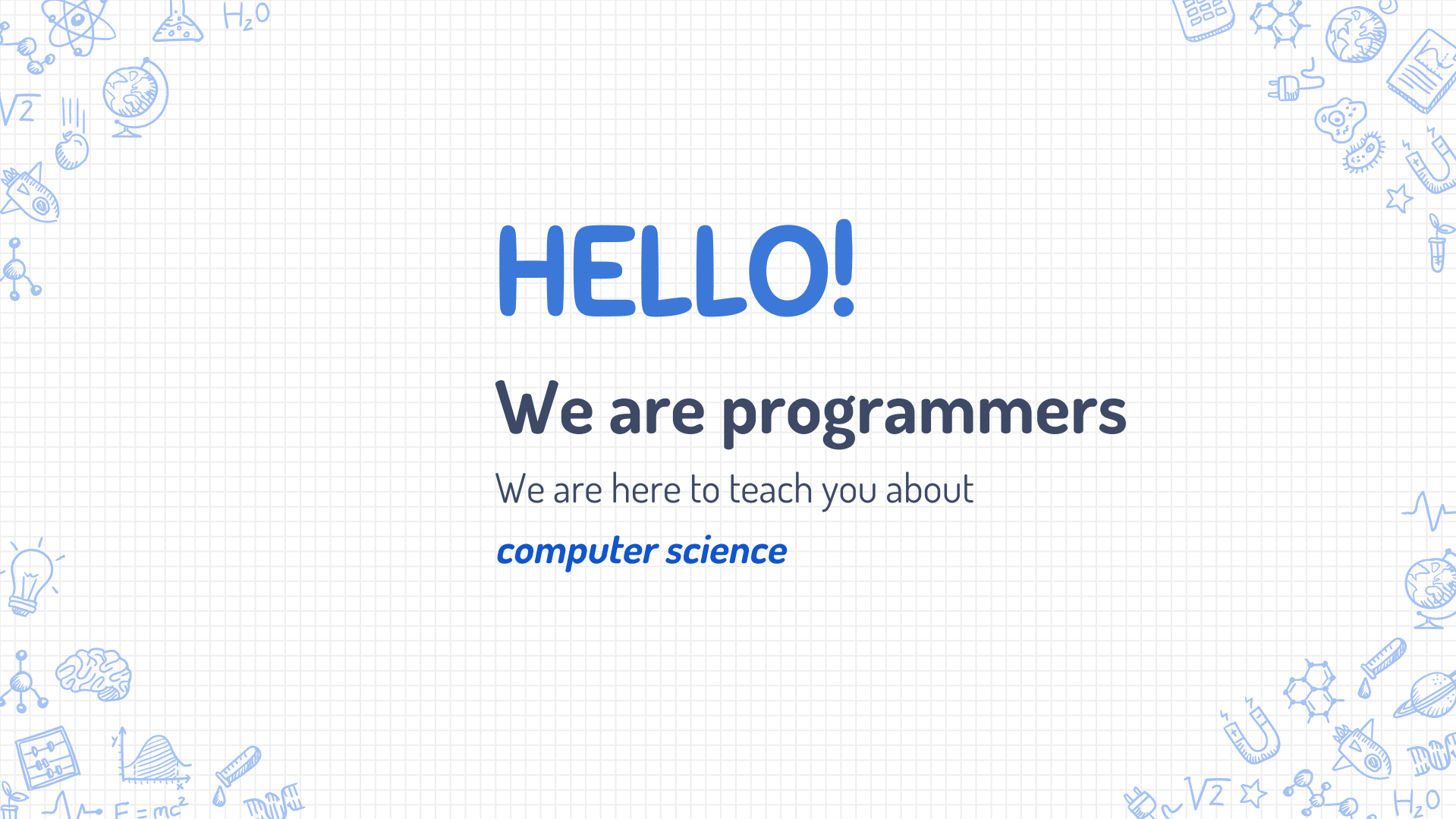


A decorative border of various science and technology icons in blue line art style, including a lightbulb, brain, abacus, graph, DNA helix, microscope, globe, rocket, atom, water molecule (H2O), and mathematical symbols like V2 and E=mc2.

# HELLO!

## We are programmers

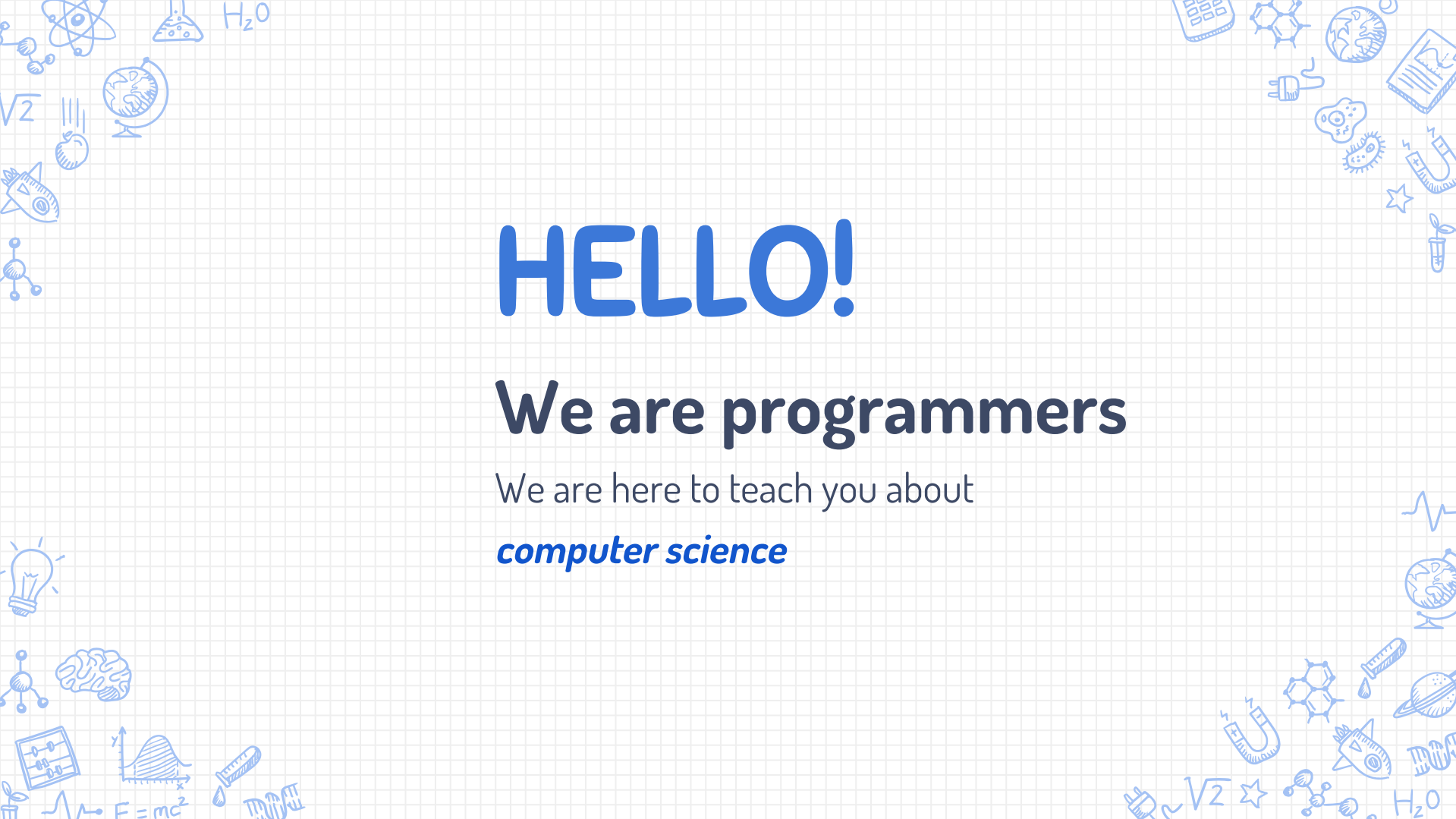
We are here to teach you about  
*computer science*

A decorative border of various science and technology icons in blue line art style, including a lightbulb, brain, abacus, graph, DNA helix, microscope, globe, rocket, and chemical formulas like H2O and E=mc2, scattered around the edges of the slide.

# HELLO!

## We are programmers

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A decorative border of various science and technology icons in blue line art style, including a lightbulb, brain, abacus, graph, DNA helix, microscope, globe, rocket, and chemical formulas like H2O and E=mc2, scattered around the edges of the slide.

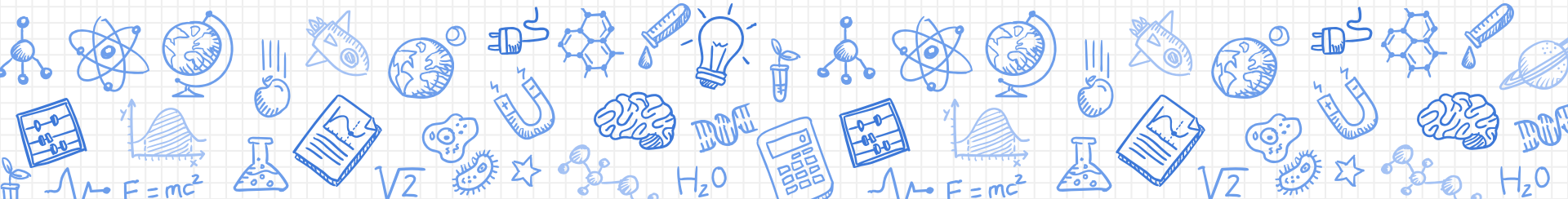
# HELLO!

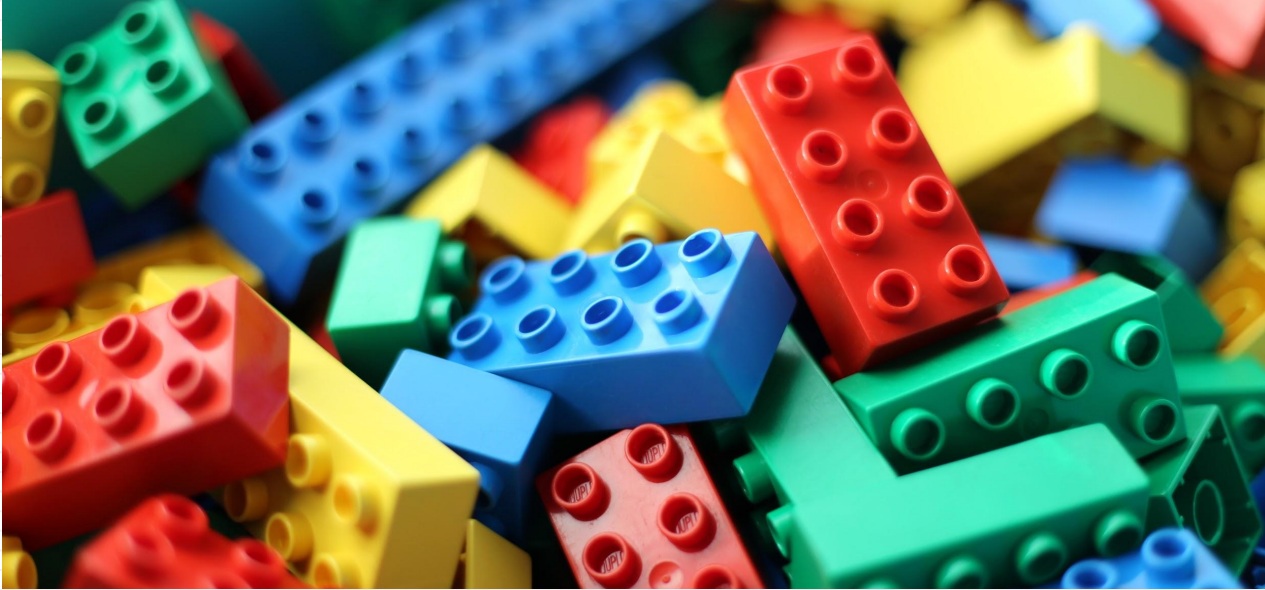
## We are programmers

We are here to teach you about  
*computer science*

# Let's start with a question

Who has played with Legos® before?

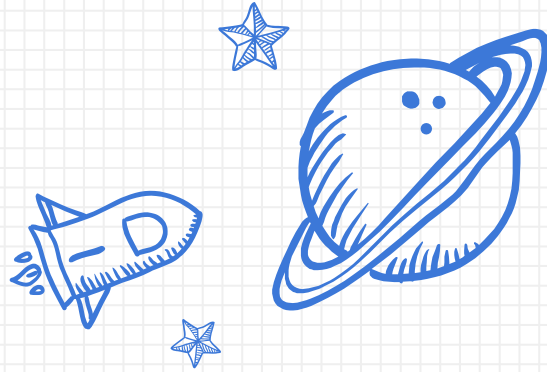




We will be working with Lego® Mindstorm robots!



Here are some cool robots!

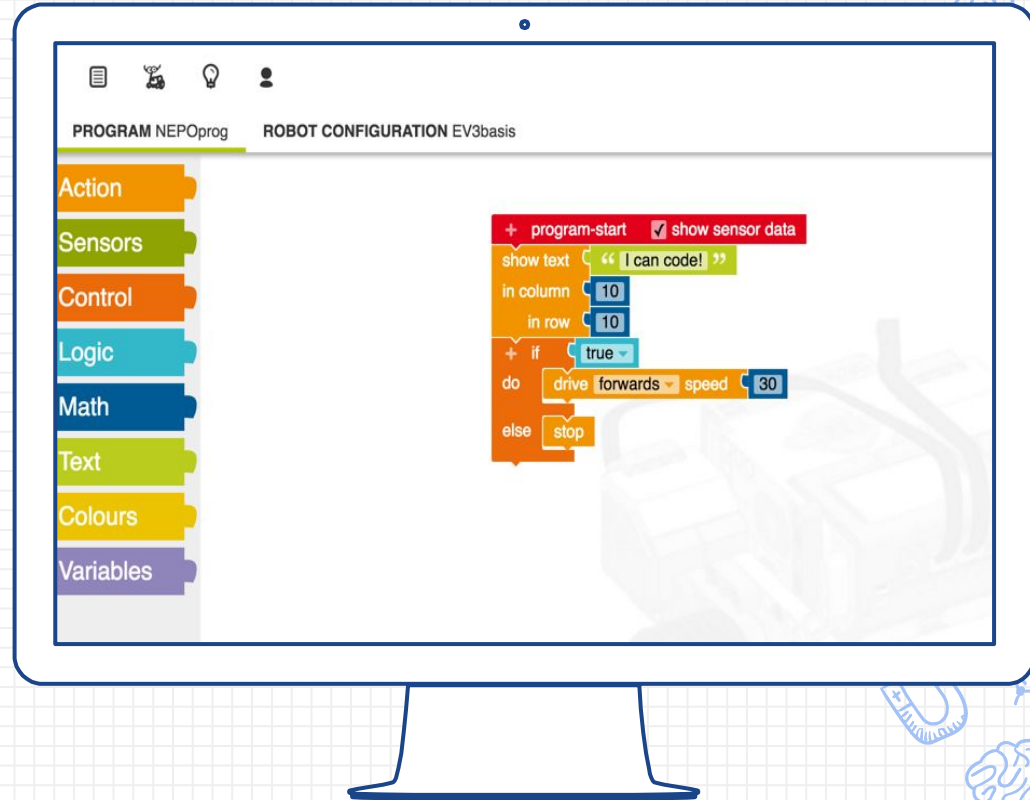


# Computer Science

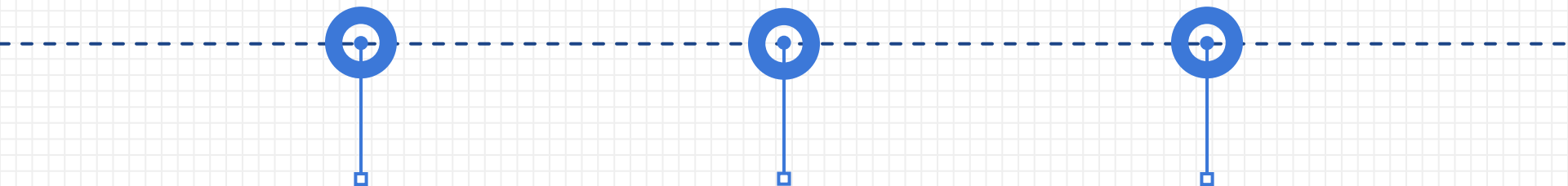
A sequence of instructions that a computer can interpret and execute.

# Lego® Mindstorms

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



## Let's do a test run!



A horizontal dashed line with three blue circular markers. Each marker has a vertical line extending downwards to a small square, which then connects to a text box.

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

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## What is computer science?

Computer scientists write code to give instructions to computers.

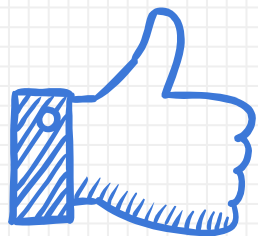
## Hardware v.s. software?

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.

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