
micro:bit

Pauline Maas
@4pip

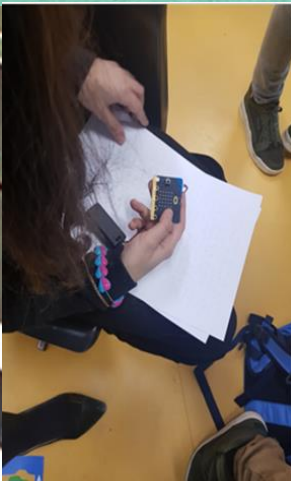
Wie komen er?



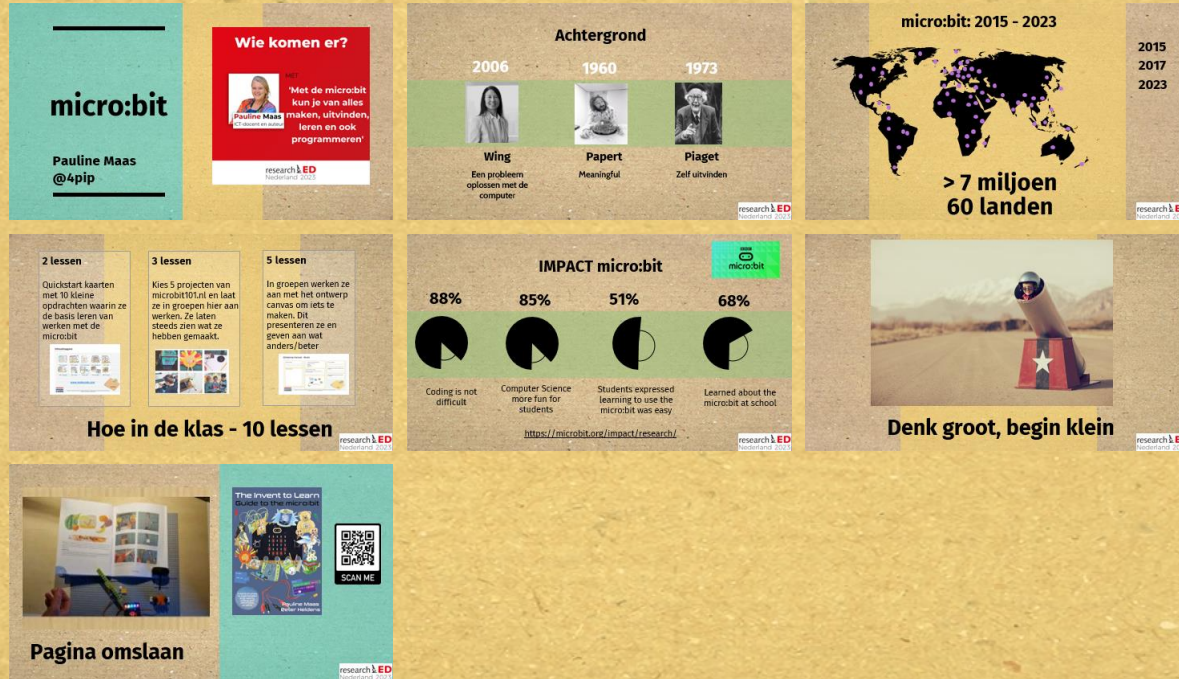
MET

**'Met de micro:bit
kun je van alles
maken, uitvinden,
leren en ook
programmeren'**

research **LED**
Nederland 2023



Inhoud



Achtergrond

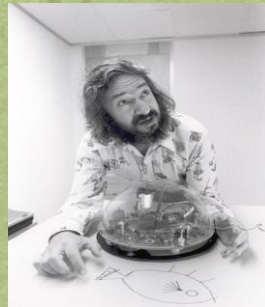
2006



Wing

Een probleem
oplossen met de
computer

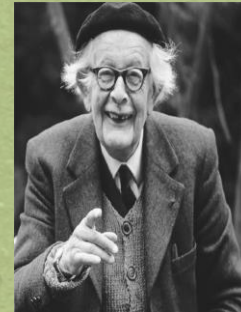
1960



Papert

Meaningful

1973



Piaget

Zelf uitvinden

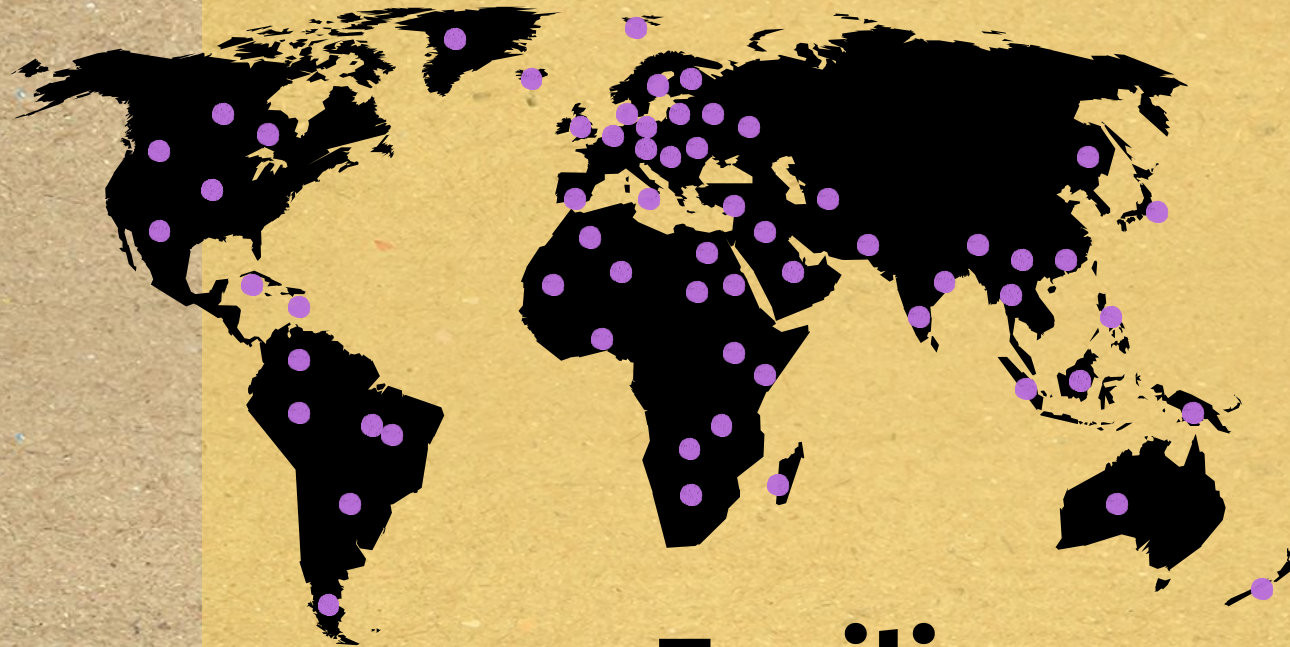


PO projecten



VO projecten

micro:bit: 2015 - 2023



2015

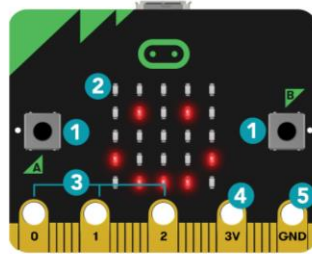
2017

2023

**> 7 miljoen
60 landen**

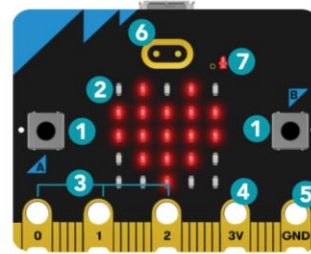
micro:bit V1

micro:bit V2



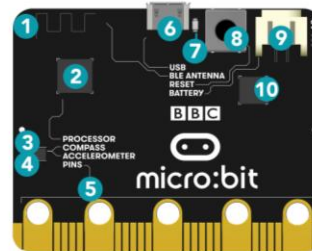
micro:bit V1 - Front

- | | |
|----------------|-----------------------|
| 1. Buttons | 4. Pin - 3 Volt Power |
| 2. LED Display | 5. Pin - Ground |
| 3. Pins - GPIO | |



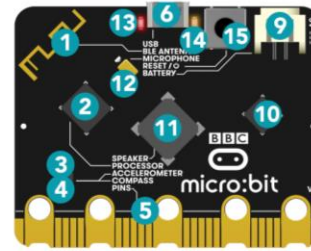
micro:bit V2 - Front

- | | |
|------------------------|--------------------|
| 1. Buttons | 5. Pin - Ground |
| 2. LED Display | 6. Gold Touch Logo |
| 3. Notched Pins - GPIO | 7. Microphone LED |
| 4. Pin - 3 Volt Power | |



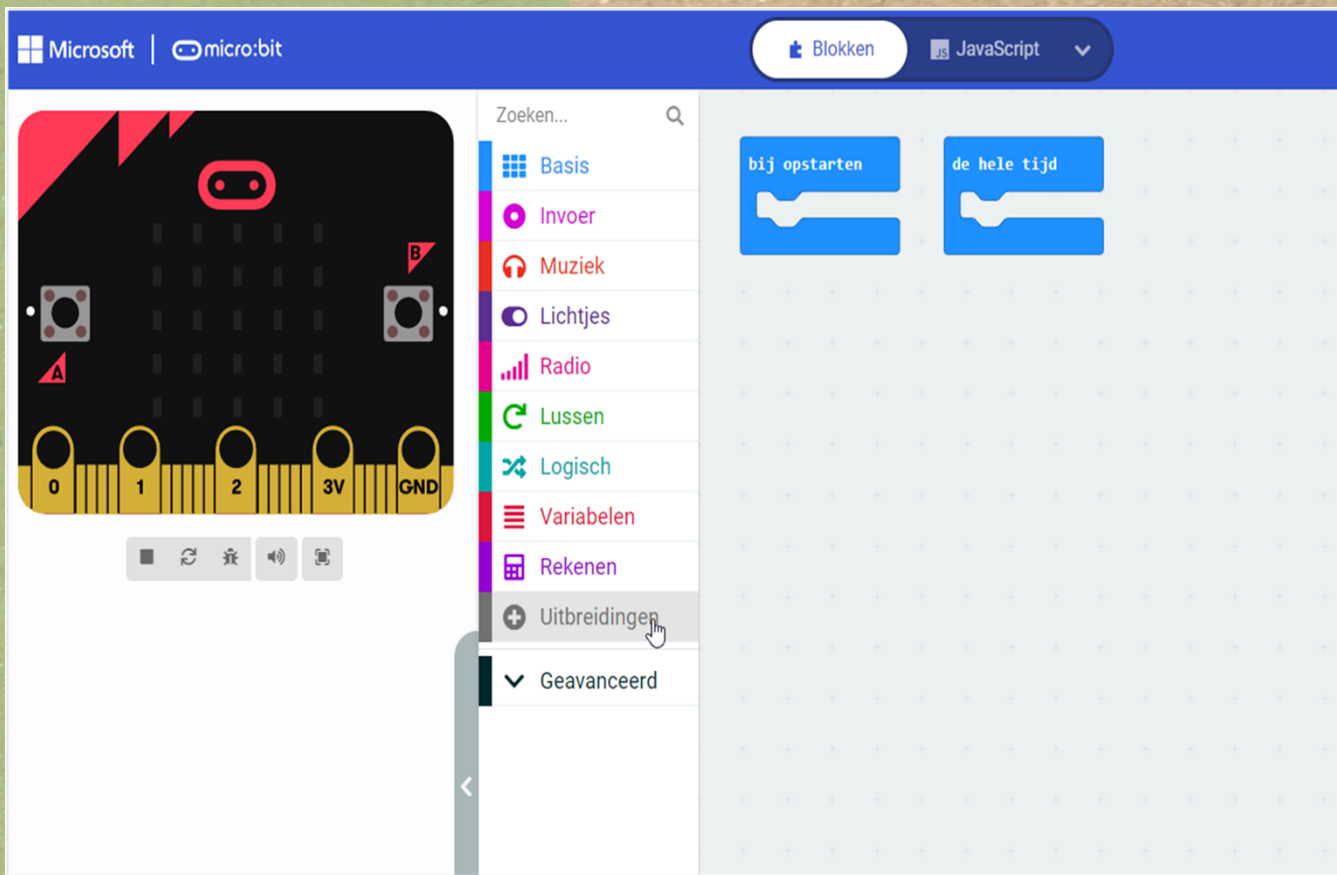
micro:bit V1 - Back

- | | |
|-----------------------------------|------------------------|
| 1. Radio & Bluetooth Antenna | 6. Micro USB Socket |
| 2. Temperature Sensor & Processor | 7. Single Red LED |
| 3. Compass | 8. Reset Button |
| 4. Accelerometer | 9. Battery Socket |
| 5. Pins | 10. USB Interface Chip |



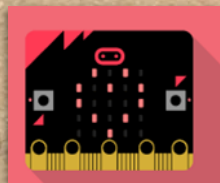
micro:bit V2 - Back

- | | |
|-----------------------------------|--------------------------|
| 1. Radio & Bluetooth Antenna | 10. USB Interface Chip |
| 2. Temperature Sensor & Processor | 11. Speaker |
| 3. Compass | 12. Microphone |
| 4. Accelerometer | 13. Red Power LED |
| 5. Pins | 14. Yellow USB LED |
| 6. Micro USB Socket | 15. Reset & Power button |
| 9. Battery Socket | |

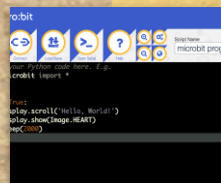


MAKECODE.COM

MakeCode



Python micro:bit



mobile APP



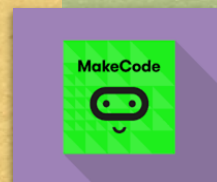
Tinkercad



Scratch



MicroCode



Windows APP



microBlocks

2 lessen

Quickstart kaarten met 10 kleine opdrachten waarin ze de basis leren van werken met de micro:bit



3 lessen

Kies 5 projecten van microbit101.nl en laat ze in groepen hier aan werken. Ze laten steeds zien wat ze hebben gemaakt.

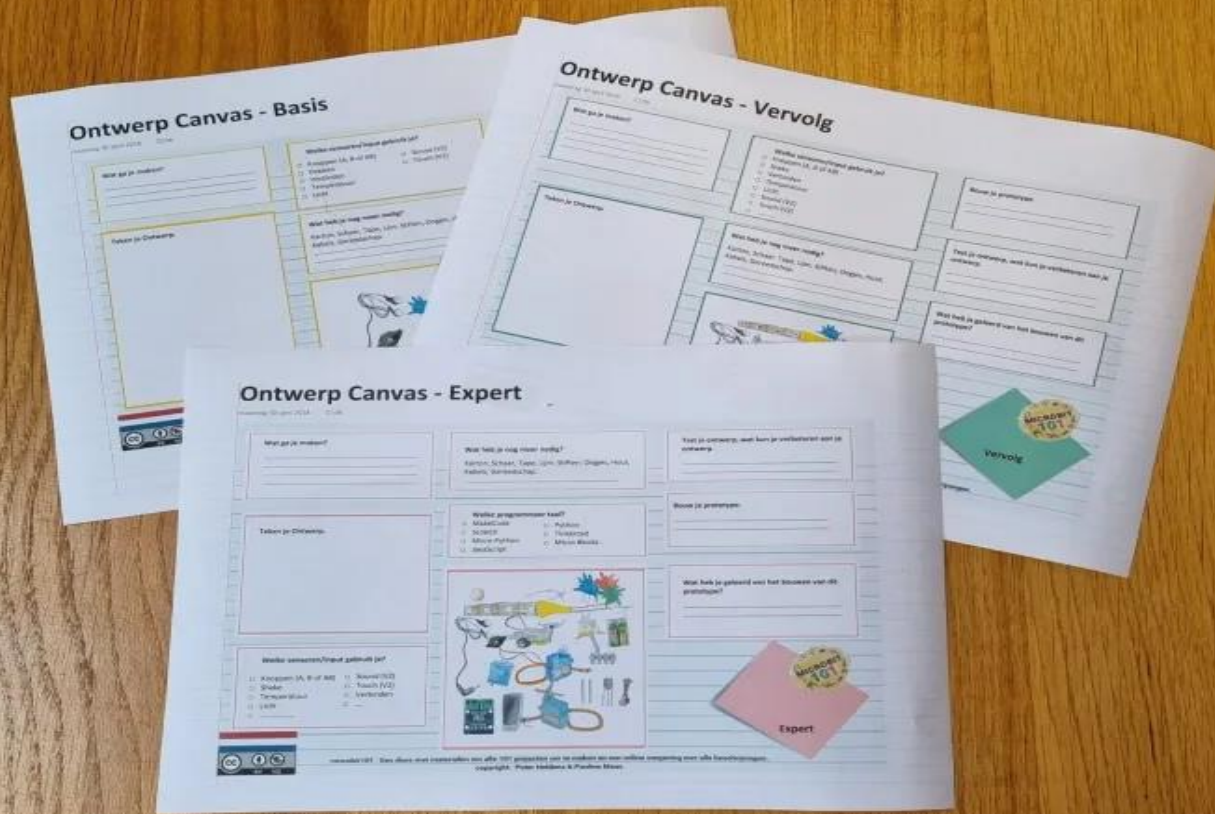


5 lessen

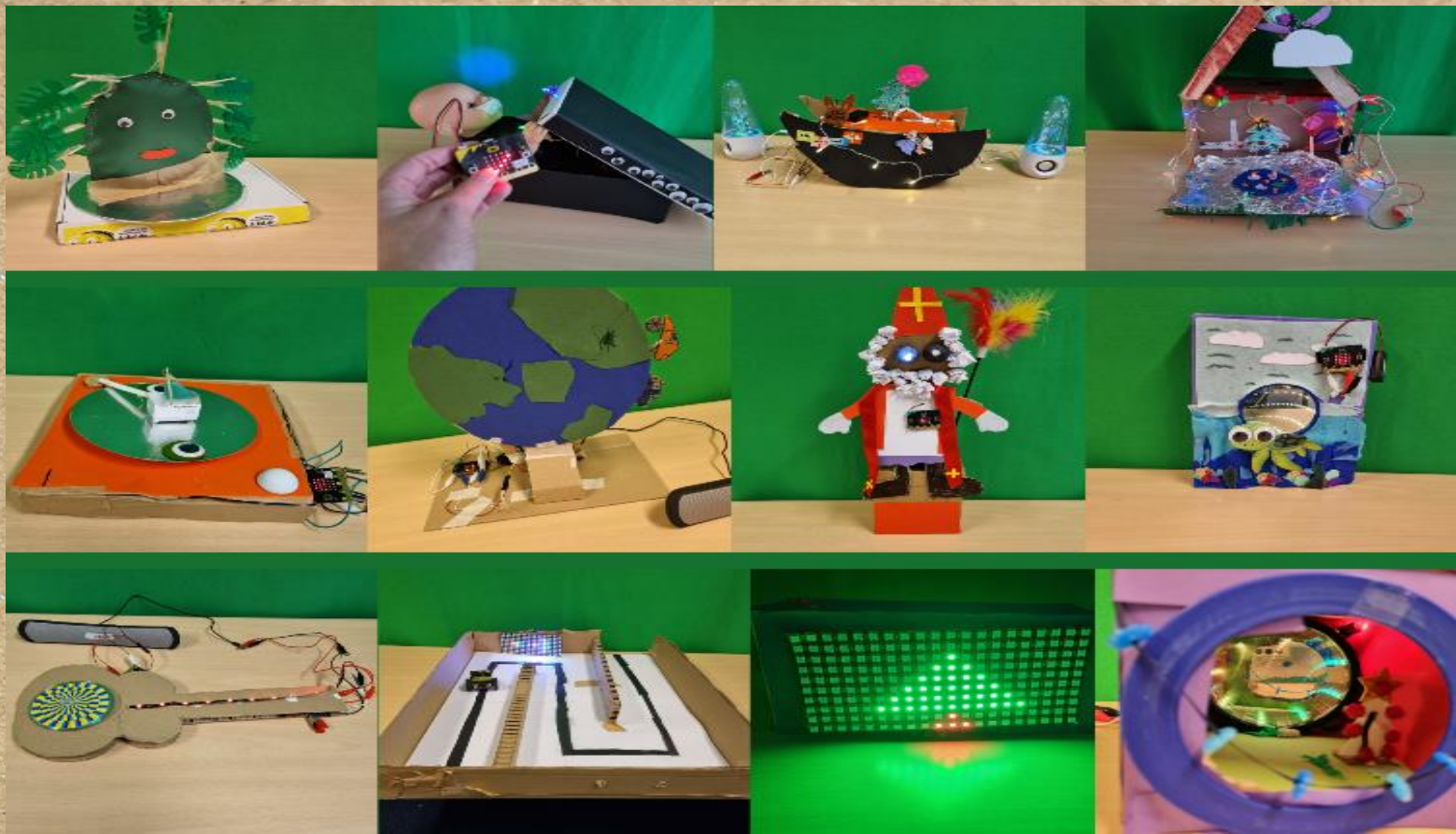
In groepen werken ze aan met het ontwerp canvas om iets te maken. Dit presenteren ze en geven aan wat anders/beter



Hoe in de klas - 10 lessen



<https://microbit101.nl/update-ontwerp-canvas/>

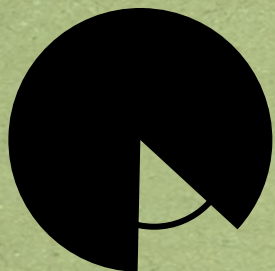


Ontwerp Canvas BASIS - 5 lessen

IMPACT micro:bit



88%



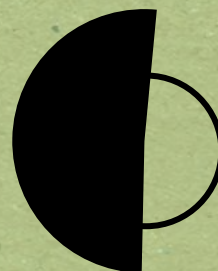
Coding is not
difficult

85%



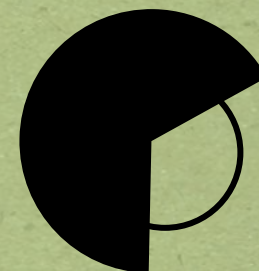
Computer Science
more fun for
students

51%



Students expressed
learning to use the
micro:bit was easy

68%



Learned about the
micro:bit at school

<https://microbit.org/impact/research/>

DO YOUR BIT CHALLENGE



2000+

More then 2000+ entries in the DYB
challengend

Entries

50+

More then 50 countries joined in the
competition

Countries

54%

In this DYB competition 54% where girls

Girls

<https://microbit.org/impact/research/>

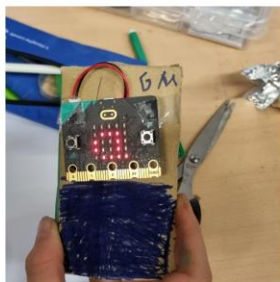
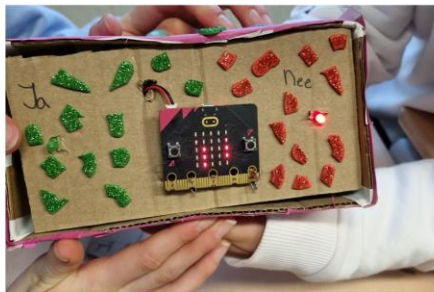
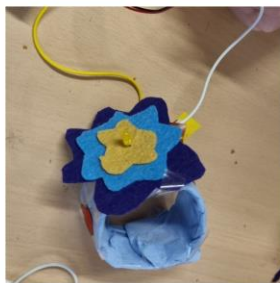
70%

Of the girls said they would choose
Computer Science as a subject

<https://microbit.org/impact/research/>



Denk groot, begin klein



1 dag micro:bit



#doyourbit





Inch worms



Milky monsters



First Attempt in Learning



Pagina omslaan



Insta @microbit101
www.microbit101.nl
Twitter @4pip

