

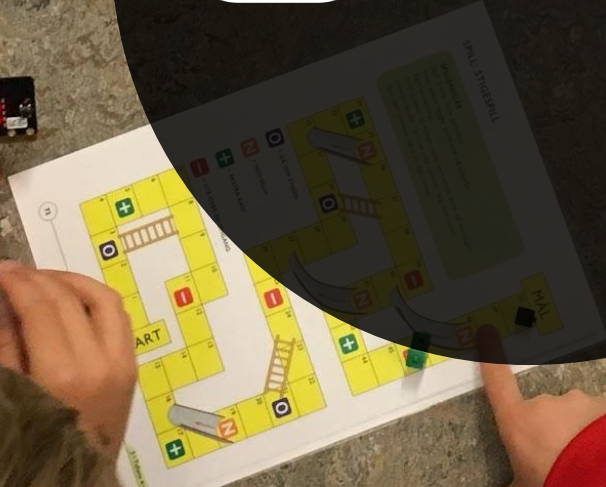
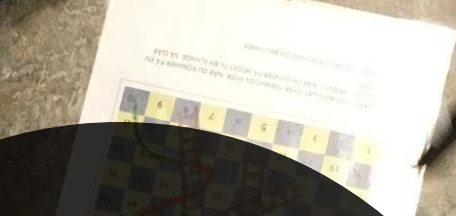


Begynnerkurs i blokkprogrammering

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The logo for the micro:bit, featuring a stylized white 'O' with two dots inside, followed by the text 'micro:bit' in a white, lowercase, sans-serif font. The logo is centered within a large, dark circular overlay.

micro:bit

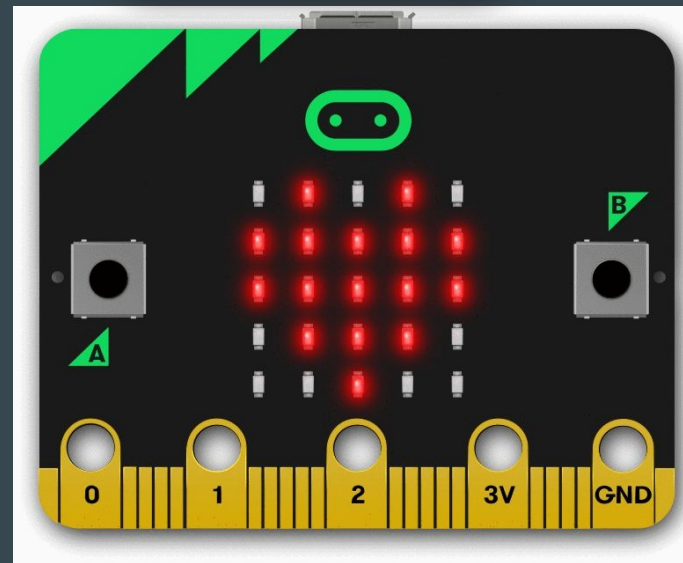
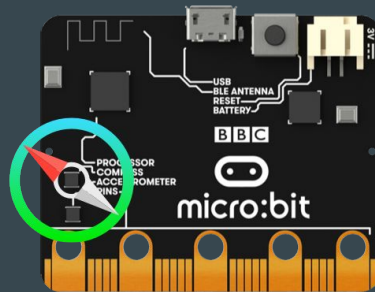
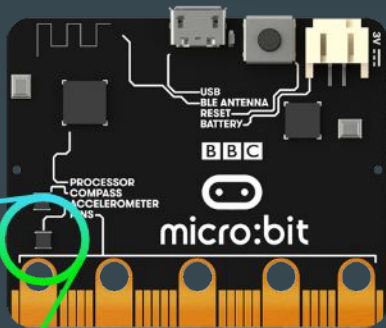
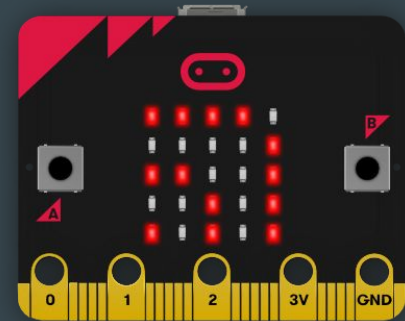
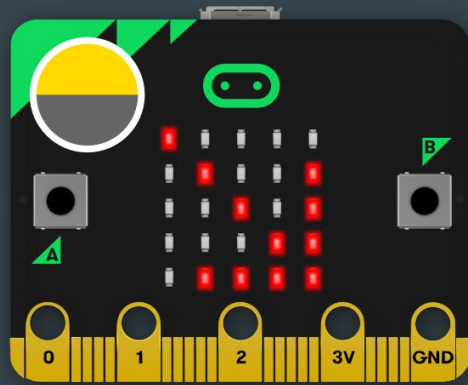
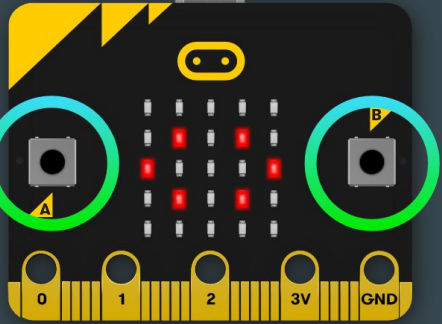


micro:bit

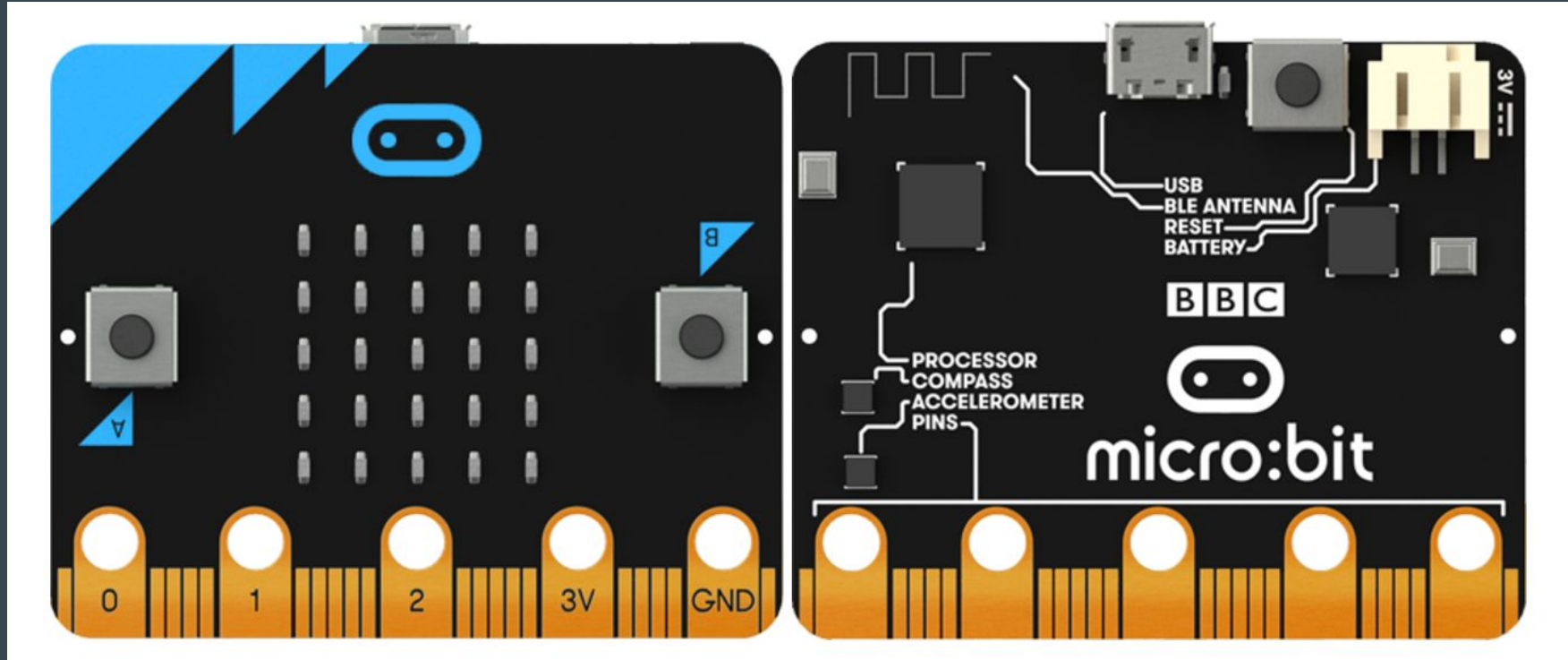
micro:bit er en mikrokontroller som ble laget for første gang i 2015 for å lære barn programmering. I storbritannia deles den for tiden ut gratis til alle 12-åringer.

En micro:bit er noe enklere enn Arduino, og kan programmeres både med blokker som i Scratch eller med tekstbaserte språk som Python og JavaScript.

micro:bit har innebygd LED-matrise, knapper, gyroskop (akselerometer), bluetooth, temperaturmåler, lysmåler, kompass mm.



Frem / bak



Hvorfor Micro:bit?

- Jobbe med grunnleggende prinsipper i programmering.
 - Programmering er ofte litt abstrakt. Programmerer du et fysisk objekt er det lettere å se virkningen av koden. Modellering et viktig begrep.
 - Koding med blokker eller tekst. Enkelt for den yngste/uinnvidde, og et viktig steg mot bredere kunnskap for den flinke.
 - Mestring alltid innenfor rekkevidde, uansett utgangspunkt
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Algoritmik tankegang / computational thinking

Concepts

Logic
predicting & analysing

Algorithms
making steps & rules

Decomposition
breaking down into parts

Patterns
spotting & using similarities

Abstraction
removing unnecessary
detail

Evaluation
making judgement

The Computational Thinker:
Concepts & Approaches



Tinkering
experimenting & playing

Creating
designing & making

Debugging
finding & fixing
errors

Persevering
keeping going

Collaborating
working together

Approaches

makecode.microbit.org