

Technologie



Kerndoe

A

Technologie

Digitale
Geletterdh

Hoe kan technologie in de volle breedte

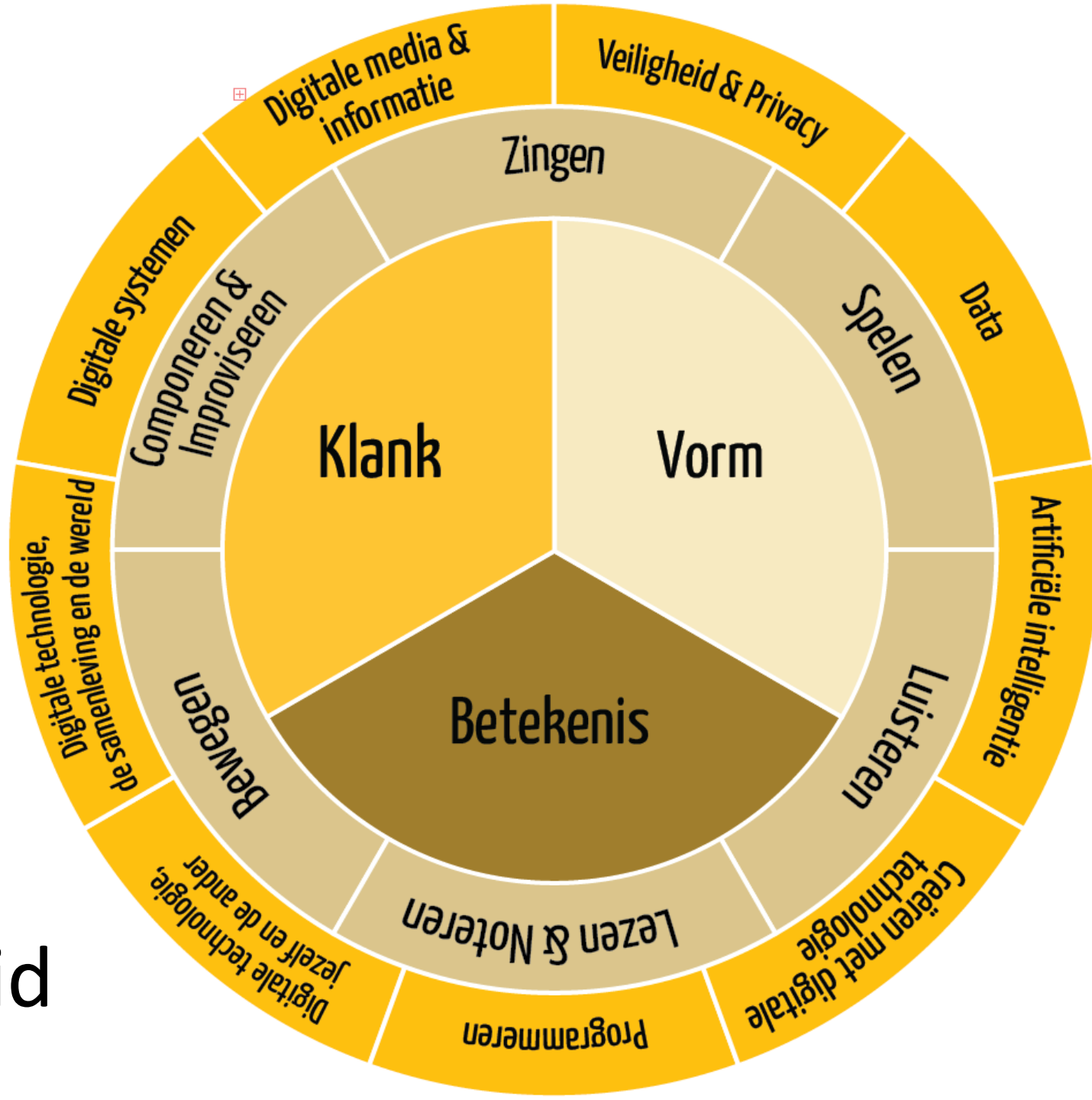
— apps, opname- en productietools, VR/AR,
AI, digitale instrumenten enz. —

bijdragen aan rijker muziekonderwijs?

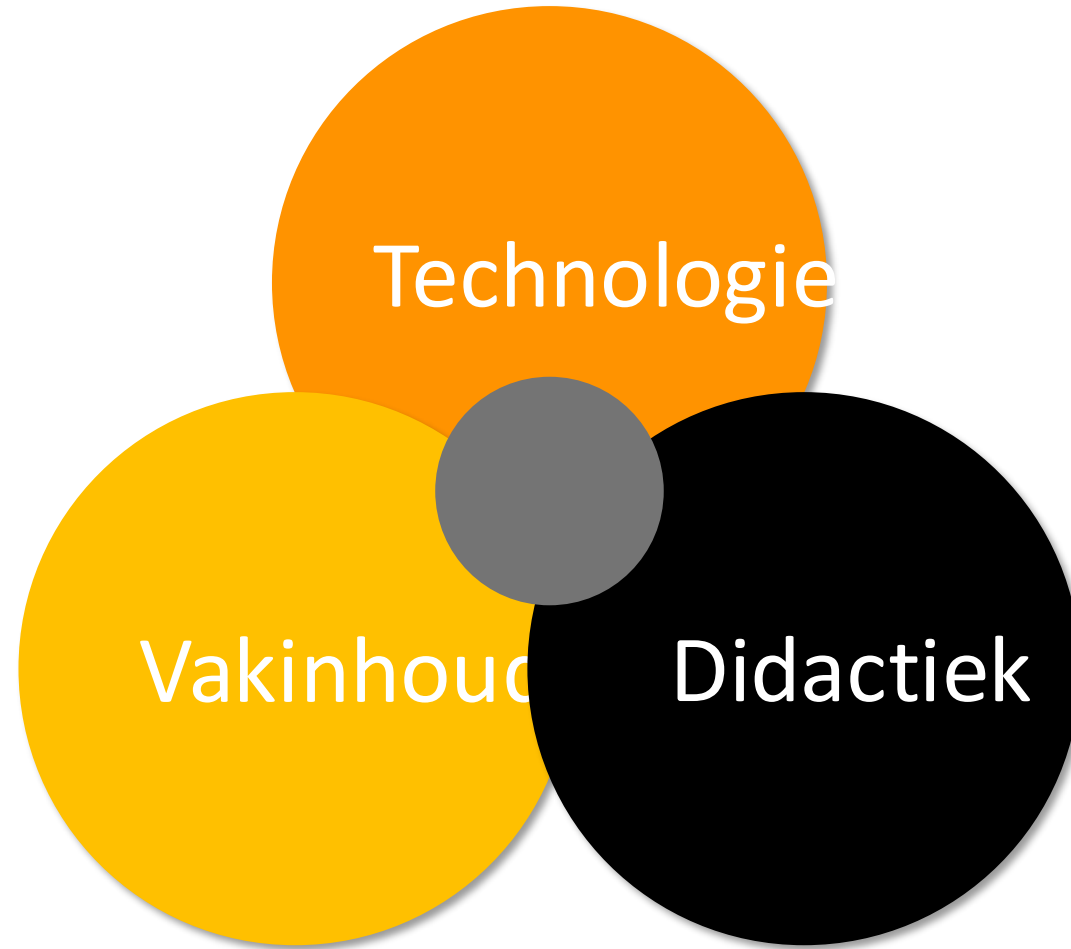
Wie zijn wij?

Muziek

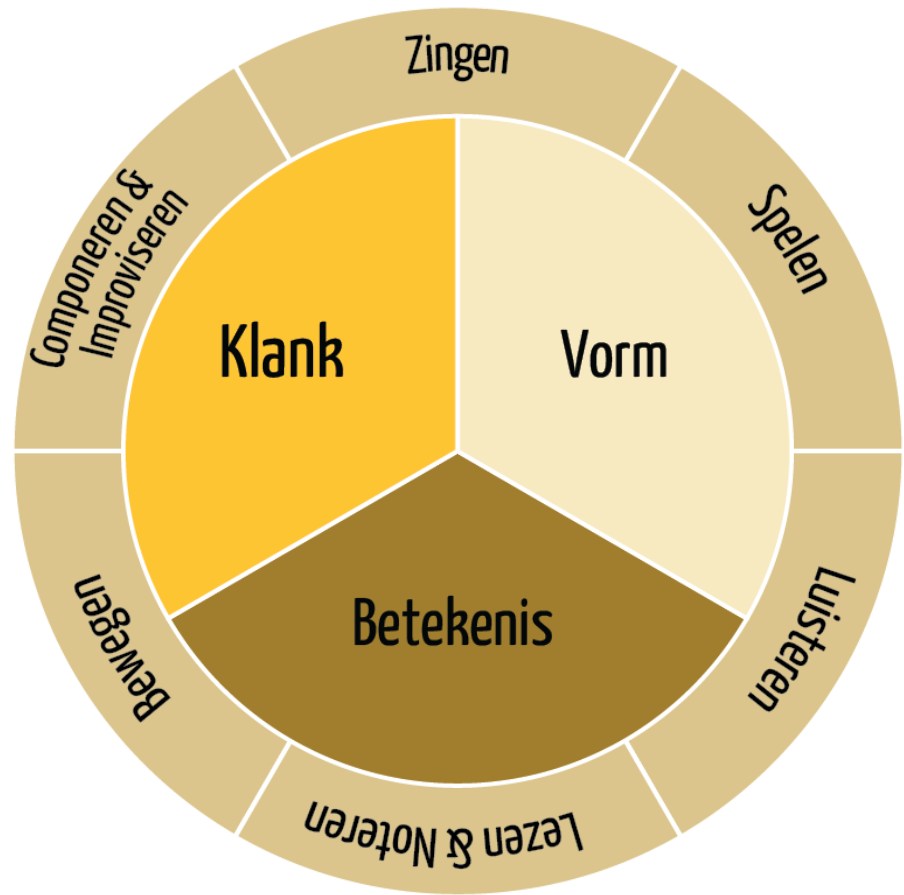
Digitale Geletterdheid



TPACK



Vier voorbeelden



1 Sneeuwstorm (onderbouw)

Online muziek-apps

2 Bijzonder gesprek (middenbouw)

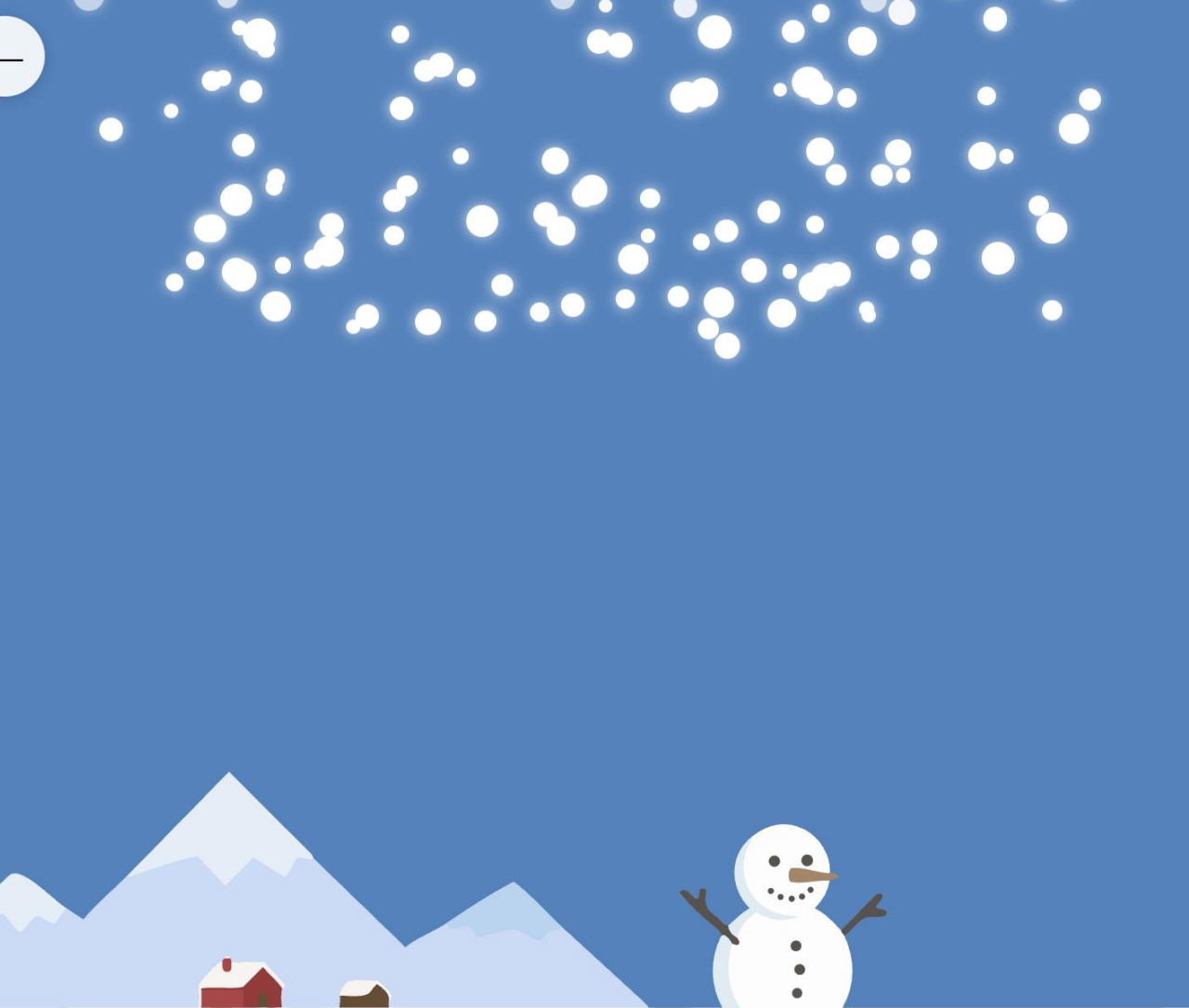
Synthesizer

3 Bloemen plukken (onderbouw)

Presentatie software

4 Puur toeval (bovenbouw)

DAW – digital audio workstation



1 Sneeuwstorm

URL:

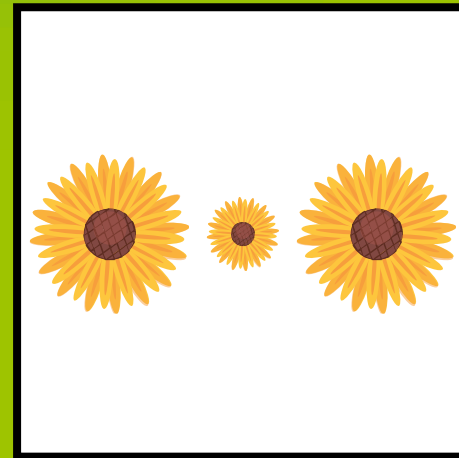
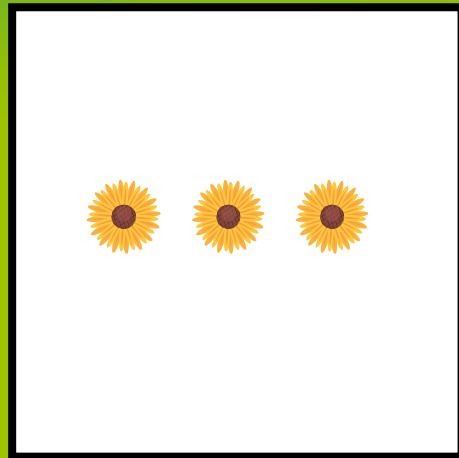
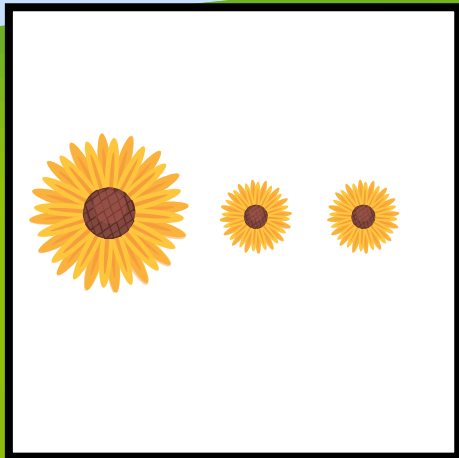
[sneeuwtechindeles](#)

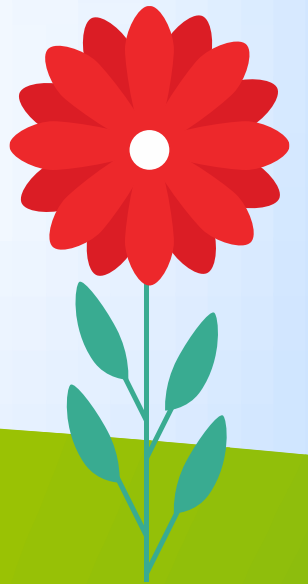
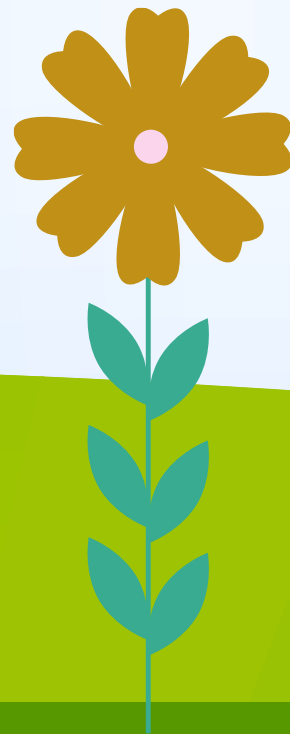
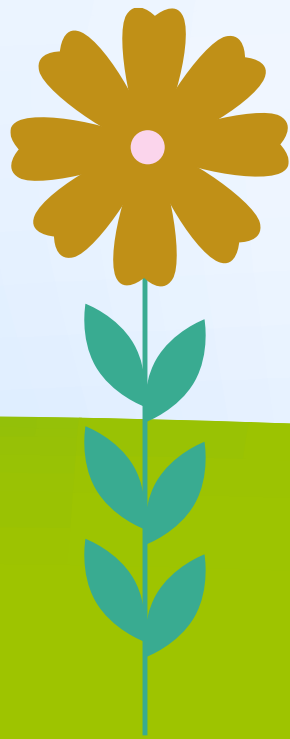
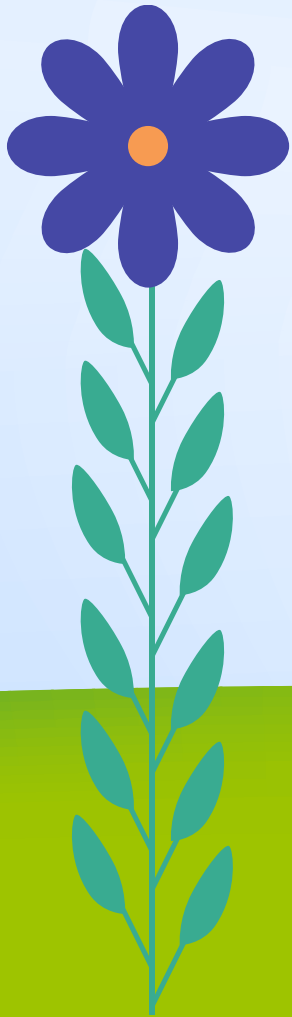
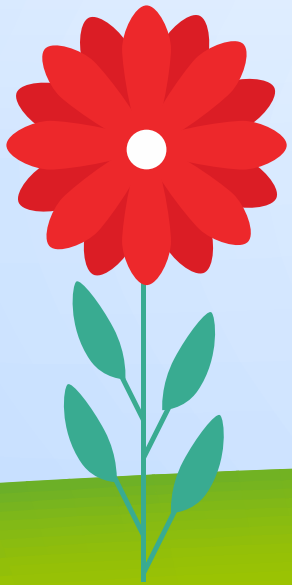
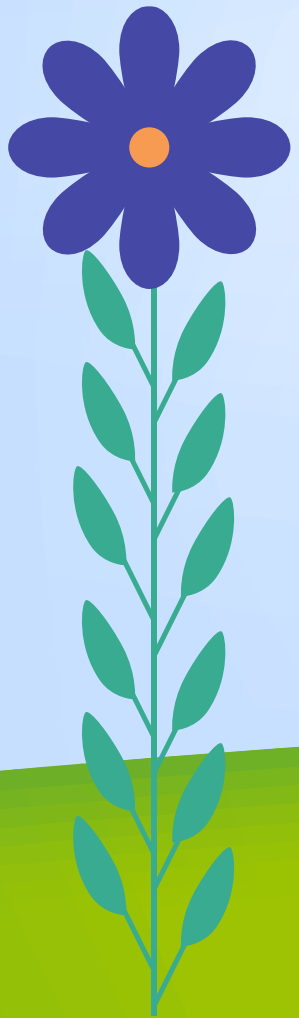
2 Bijzonder gesprek

Ga naar: learningsynths.ableton.com

The image shows a screenshot of the Ableton Learning Synths website. On the left, a navigation menu is open, listing several sections: 'Get started', 'Making changes' (with a sub-section 'MODIFYING SOUND'), 'Amplitude', 'Pitch', 'Play with amplitude and pitch' (highlighted with a yellow arrow and a mouse cursor), 'Synth basics' (with a sub-section 'INTRODUCING SYNTHESIZERS'), 'Envelopes' (with a sub-section 'CHANGE OVER TIME'), and 'LFOs' (with a sub-section 'CHANGE THAT REPEATS'). The main content area on the right is titled 'Play with amplitude and pitch' and contains the following text: 'The box below affects just the synth's amplitude and pitch. Play with amplitude and pitch together and see what sorts of sounds you can discover.' Below the text is a large blue square with a small black circle in the center, which is a control for the synth's amplitude and pitch. At the bottom of the page, there is a link 'Open in Playground' and a note: 'Listen to the changes in pitch as you drag up and down and the changes in amplitude as you drag left and right.'

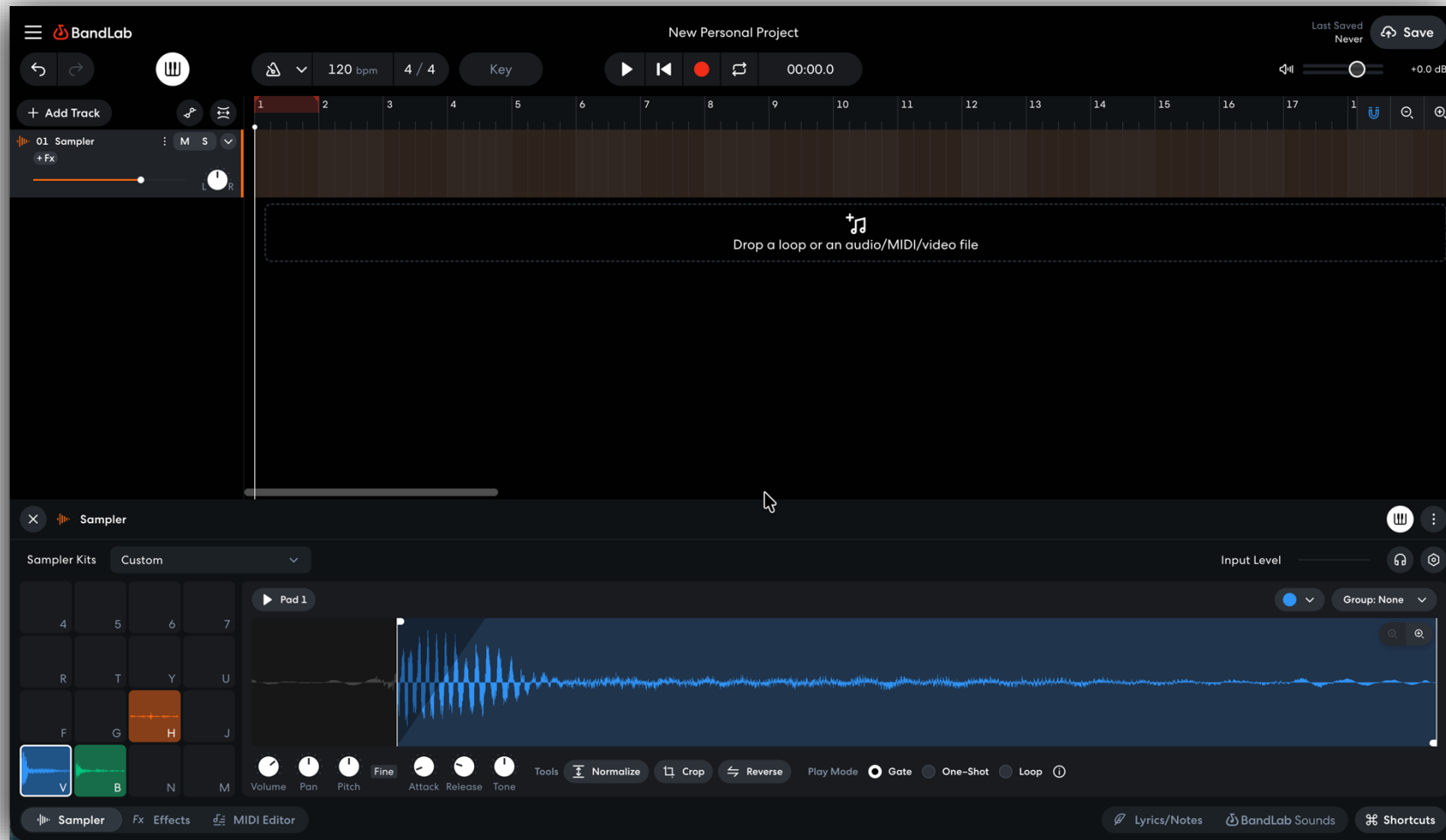
3 Bloemen plukken



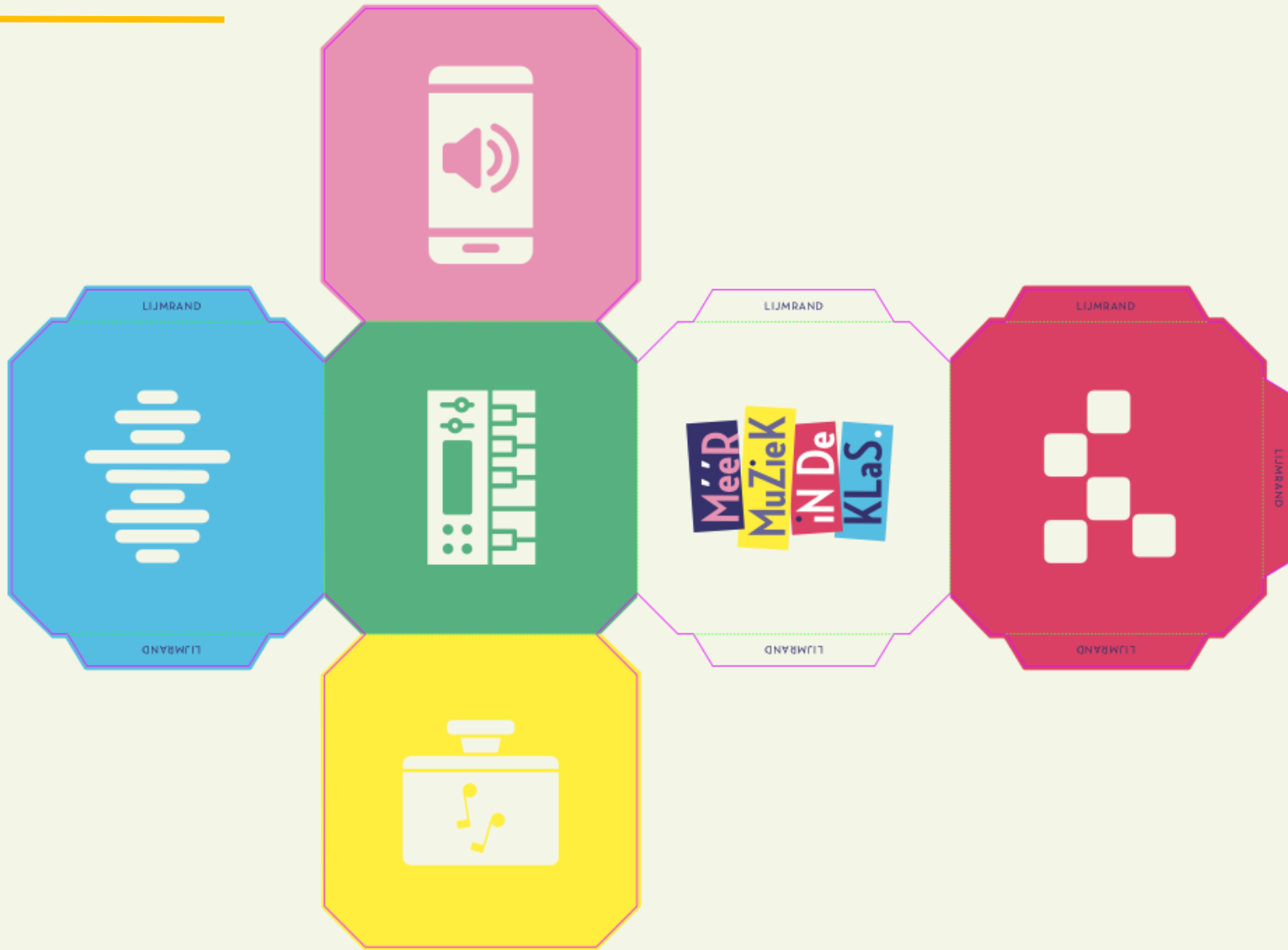


4 Puur toeval

Ga naar: edu.bandlab.com/join/w0d2hde



Dobbelsteen



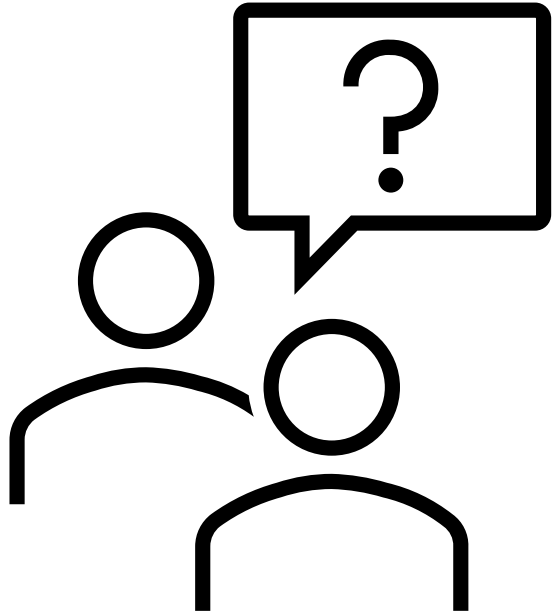
DAW

Presentatiesoft
ware
Synthesizer

Sequencer

Online muziek
apps
Vrije keuze

Bedankt



Bert van Uffelen

Hogeschool Rotterdam

Benno Spieker

ArtEZ Conservatorium Enschede

Méér Muziek in de Klas



cmaas@meermuziekindeklas.nl



Zwart of Thee