



# REALFAGSLØYPER

Collaborative professional development  
for mathematics and science teachers



**NATURFAGSENTERET**  
NASJONALT SENTER FOR NATURFAG I OPPLÆRINGA



**MATEMATIKKSENTERET**  
Nasjonalt senter for matematikk i opplæringen

# Realfagsløyper

- can be implemented directly in the local school or kindergarten
- introduce participants step by step to theory, educational tools and resources
- are research-based and developed in collaboration with schools and kindergartens



# Realfagsløyper is ...

- a measure in the national strategy *Tett på realfag* [Closer to natural science and mathematics]
- developed by the Norwegian Centre for Mathematics Education and the Norwegian Centre for Science Education commissioned by The Norwegian Directorate for Education and Training



# [www.realfagsloyper.no](http://www.realfagsloyper.no) – launched April 2018



The screenshot shows a web browser window with the URL [www.realfagsloyper.no](http://www.realfagsloyper.no). The page features a navigation menu with the following items: Barnehage, Barnetrinn, Ungdomstrinn, and Videregående. A search bar is located on the right side of the navigation menu. The main heading is "Kompetanseutvikling i matematikk- og naturfagdidaktikk", followed by the subtitle "For ansatte i barnehage og skole". A dashed vertical line points from the subtitle to the text "Oppstart på 1-2-3". Below this, there are four circular images representing different educational levels: Barnehage, Barnetrinn, Ungdomstrinn, and Videregående. Each image is accompanied by its respective label.

Forside | Realfagsløyper

realfagsloyper.no

REALFAGSLØYPER

Barnehage Barnetrinn Ungdomstrinn Videregående

Søk

## Kompetanseutvikling i matematikk- og naturfagdidaktikk

For ansatte i barnehage og skole

Oppstart på 1-2-3

Barnehage

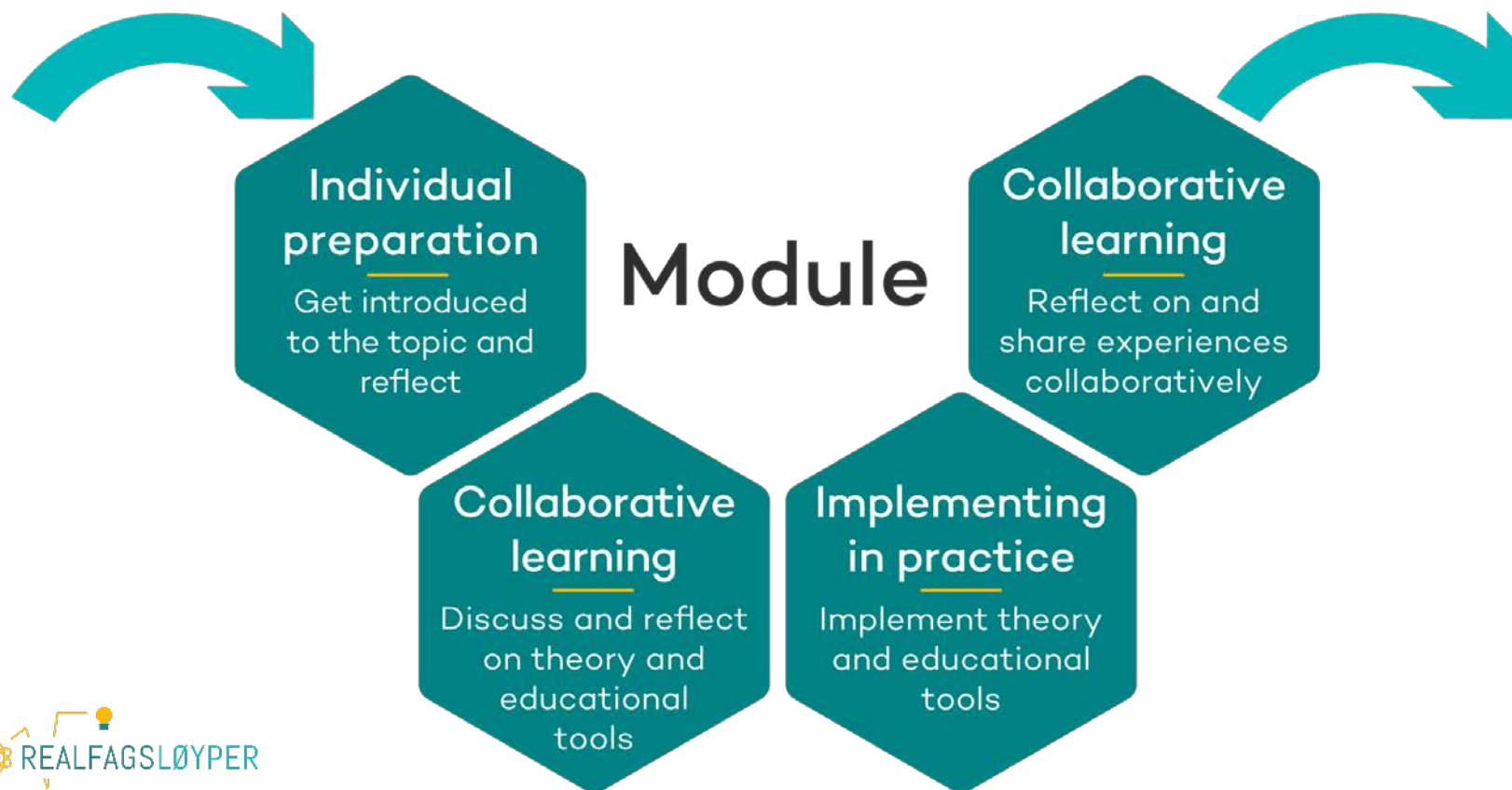
Barnetrinn

Ungdomstrinn

Videregående

# Systematic work

- each competence development package consists of two–five modules
- each module consist of four stages



# Topics

## Kindergarten

- Get started
- Play and learning environment
- Language and communication
- The youngest children
- Diversity

## School

- Get started
- Inquiry based teaching and learning
- In depth learning
- Relevance and context
- Language and communication
- Assessment and adapted education

# Owners and leaders must prioritise and schedule time



## Quick Start 1-2-3



**1**

Schedule time for  
the development  
work

**2**

Invite your  
employees

**3**

Complete the topic  
*Get started with  
your employees*

