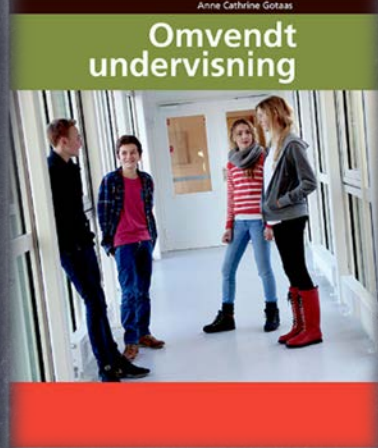


Flipped learning

Anne Cathrine Gotaas
TV 2 Skole – Oslo – Norway
Ljubljana 9th May 2016

«Flipped learning»



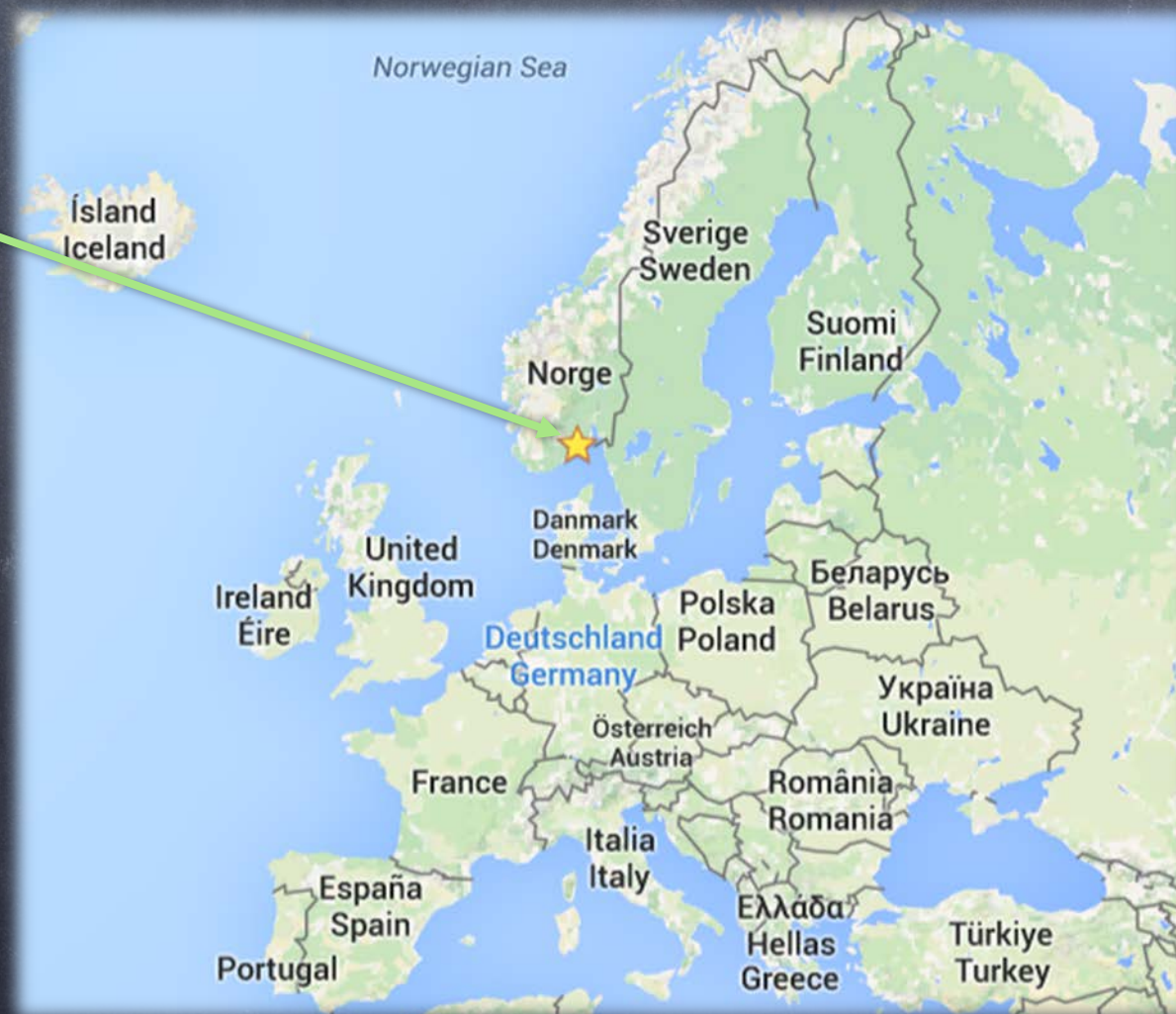
Introduction

Who am I and what am I going to talk about?

From Norway



Oslo



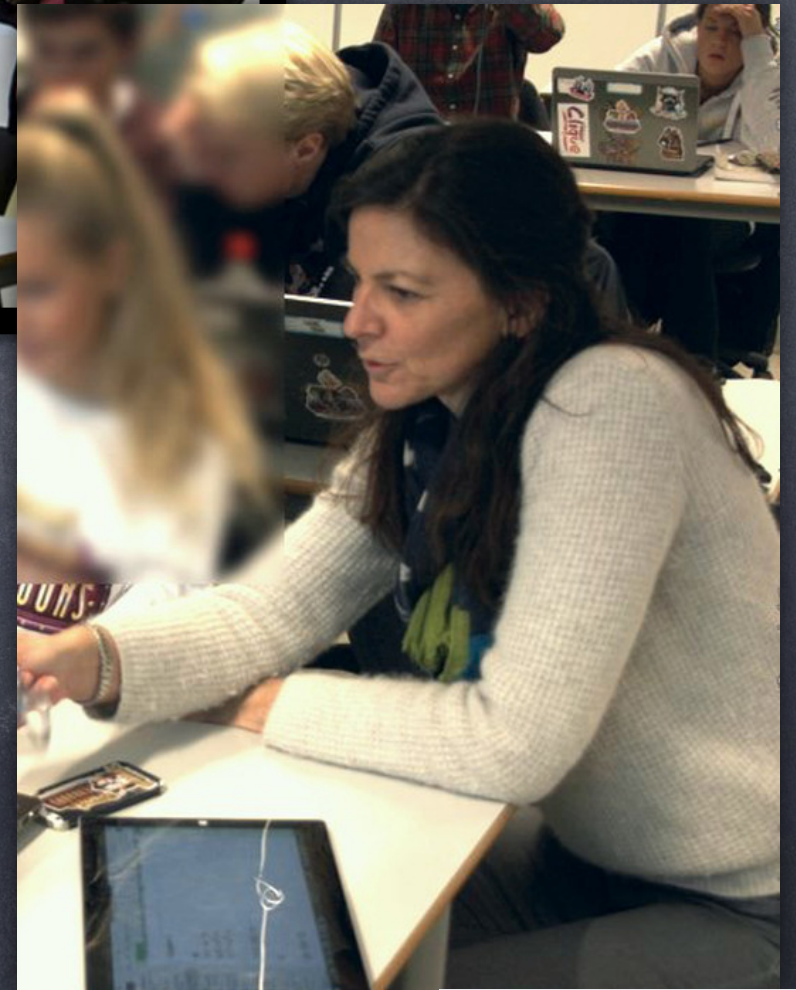
Degree in economics and mathematics

Worked as a controller
10 years

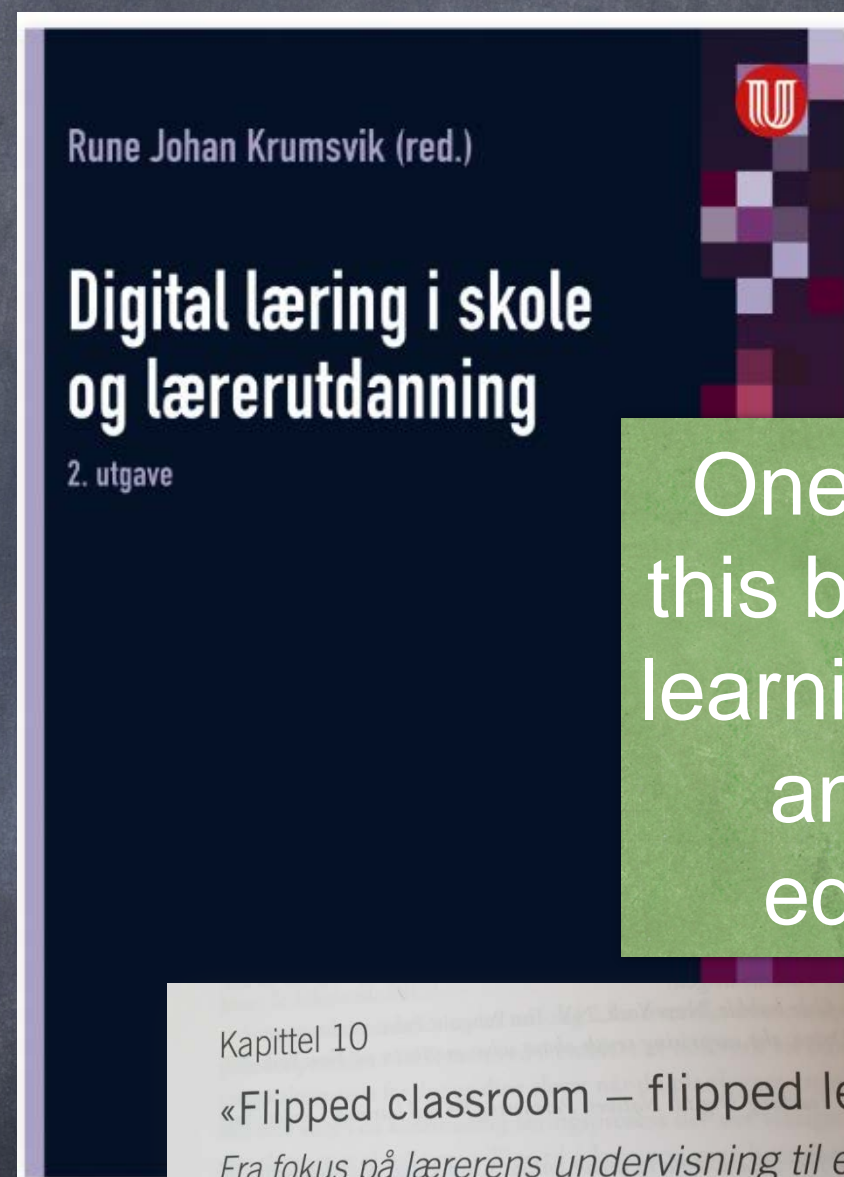
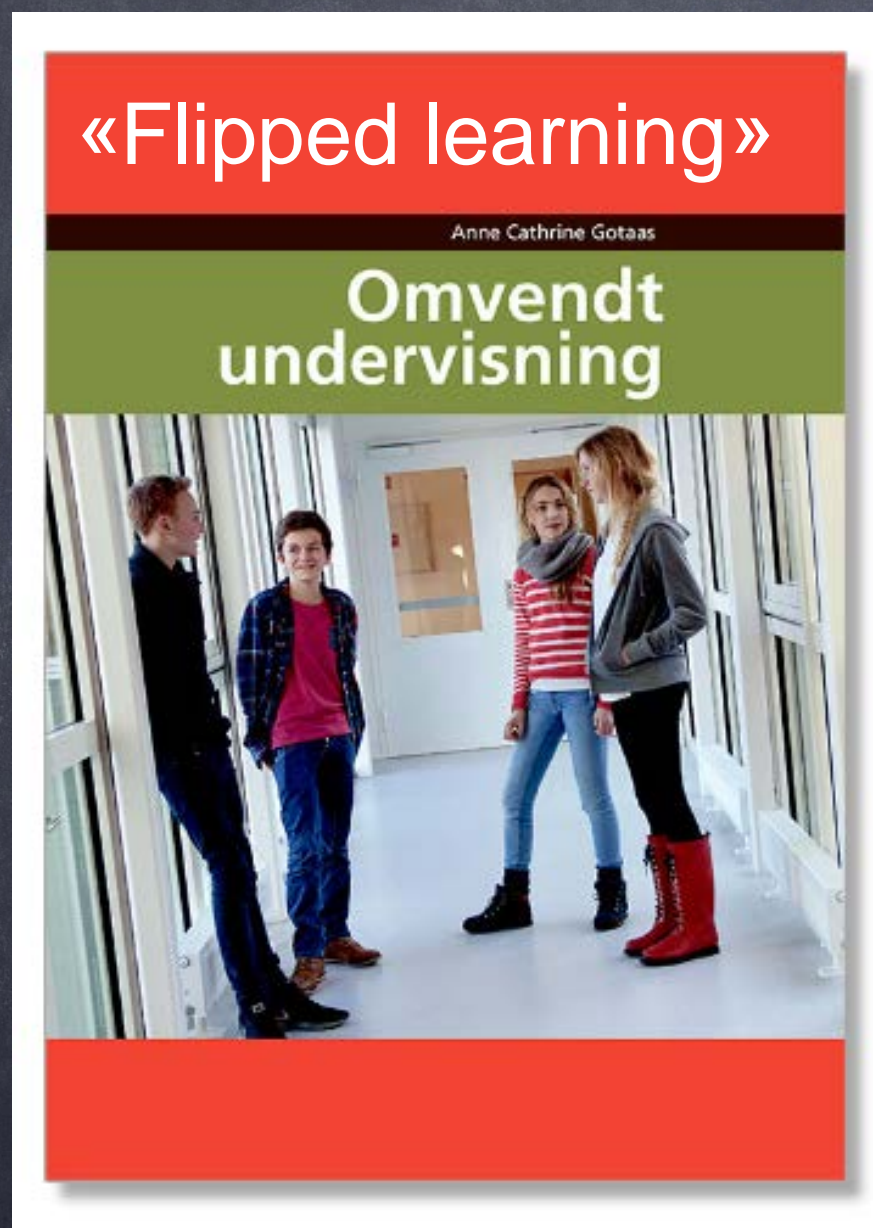


Teacher in high school

- 15 years mathematics and economics
- Practiced flipped learning
- Trained teachers in best use of ICT in education



I have written about flipped learning



One chapter in this book «Digital learning in school an teacher education»

Kapittel 10
«Flipped classroom – flipped learning»
Fra fokus på lærerens undervisning til elevens læring

Anne Cathrine Gotaas

And now

Editor in Chief at
«TV 2 School»



And what is TV 2 School?

Nyheter 1-7 / 2016 / Veke 18

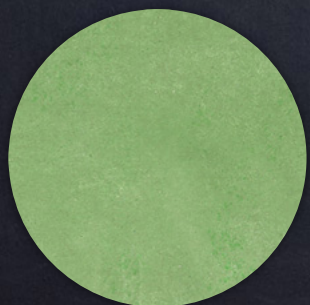
Naturfag 5-7 / Verdensrommet / B. Planetene

This screenshot shows a video player interface with two video thumbnails. The left thumbnail features a male news anchor in a grey suit against a background of multiple television screens. The right thumbnail shows a diagram of the solar system with planets labeled: Neptun, Uranus, Saturnus, Jupiter, Mars, Jorda, Venus, and Merkur. The video player includes a top navigation bar with icons for play, subtitles, document, list, font size, and a 'K!' logo. A progress bar at the bottom of the thumbnails shows 00:11 and 00:47 respectively.

This screenshot shows a news broadcast from TV 2 Skole. A male news anchor is seated at a desk, and a female sign language interpreter is standing to his right. A large screen in the background displays the '2 Skole' logo. The video player interface at the bottom shows a progress bar at 00:18 and 14:42.

This screenshot shows a video player interface with a news anchor. The top navigation bar includes icons for play, subtitles, document, list, font size, and a 'K!' logo. Below the video frame, there is a subtitle: "Velkommen til TV 2 Skole." and a set of navigation icons including a person, an arrow, a television, the number '2', and a house icon. The video player shows a progress bar at 00:11 and 11:5.

This screenshot shows a video player interface with a news anchor. A subtitle at the bottom reads: "Velkommen til TV 2 Skole. Mitt navn er Yama Wolasmal. Dette er våre hovedsaker." The video player shows a progress bar at 00:00 and 11:46. A 'دری' (Dari) icon is visible in the top right corner of the video frame.

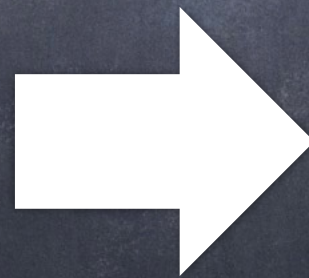


What am I going to talk about?

- My experience with flipped learning as a teacher
- I will give short answer to the questions
- Why flipping?
- How to flip?

I started as a teacher

- As sage on the stage
- Ended up being a guide on the side



Create video or find video?

Bruk av \leftrightarrow og $[]$

20. oktober 2021
08:29

- Spiss-parenteser betyr fra og til. Hører sammen med disse: \cup
(1,2): Leses: "fra én til to"
- Mens klamreparenteser betyr "fra og ned" og "til og ned"
Hører sammen med \leq og \geq
(1,2] Leses: "Fra og ned én, til og ned to"

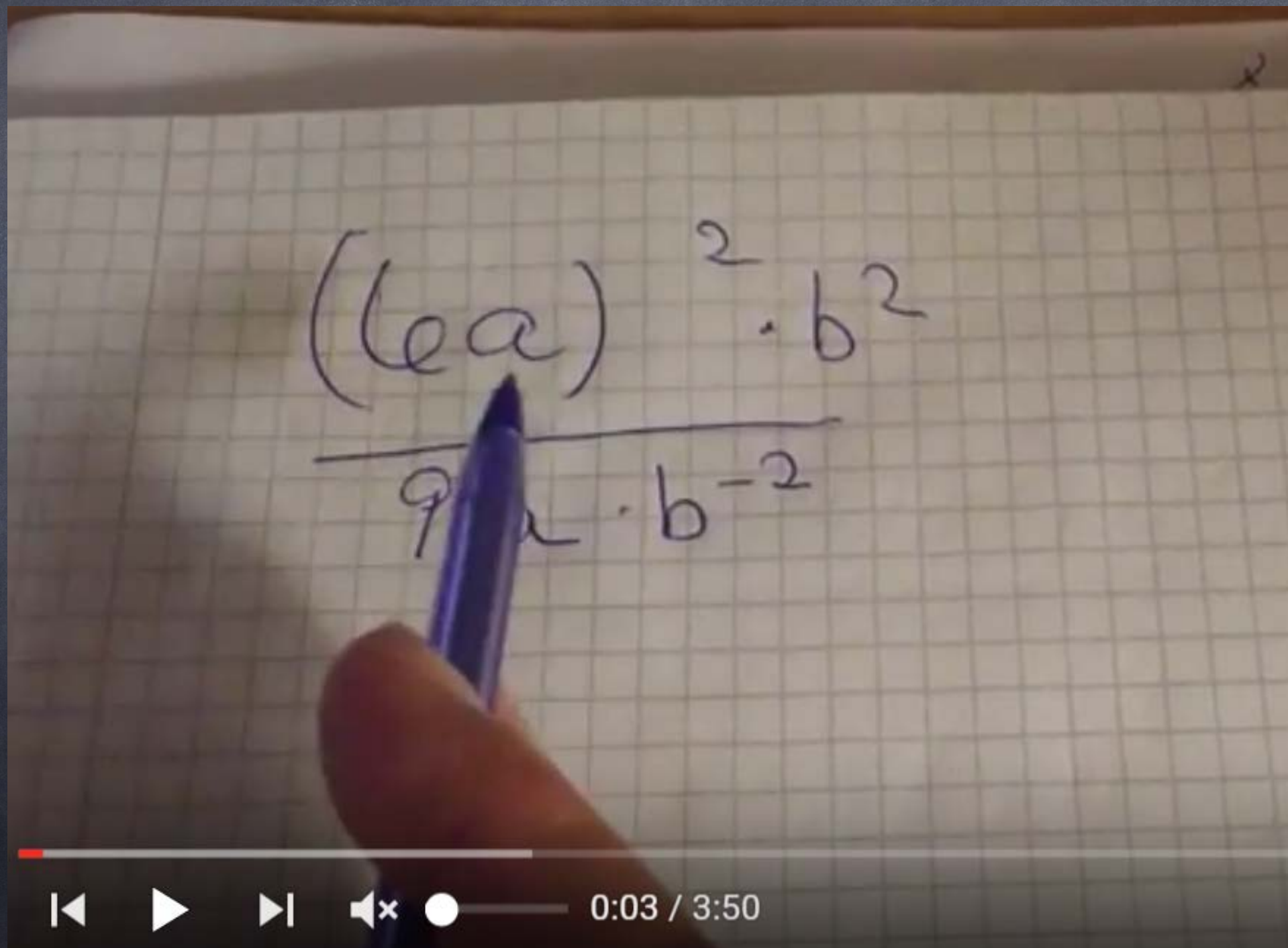
$6 - x \leq x^2$
 $-x^2 - x + 6 \leq 0$
 $x_1 = -3$ og $x_2 = 2$

$L = \langle \langle -\infty, -3 \rangle \cup [2, \infty) \rangle$

© www.uio.no



Started with an easy video to
make



Create video or find video?

- The point is:
- Instructional input and information at home
- Learning activities at school
- Check for understanding before starting with activities

Bruk av \leftrightarrow og $[]$

20. november 2020
09:19

- Spiss-pårentegn betyr fra og til. Hører sammen med åpen $\{$ og $\}$. Leses: "fra og til to"
- Mens flomparentegn betyr "fra og med" og "til og med". Hører sammen med \leq og \geq . Leses: "fra og med og, til og med to"

$6 - x \leq x^2$
 $-x^2 - x + 6 \leq 0$
 $x_1 = -3$ og $x_2 = 2$

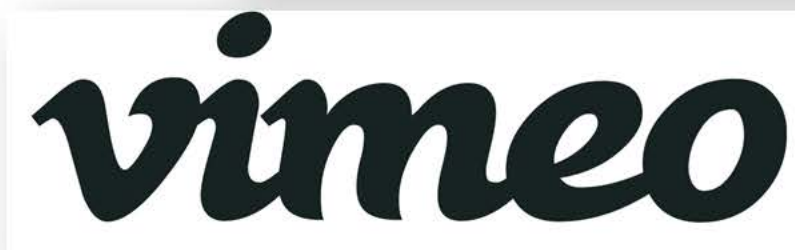
$-x^2 - x + 6$

$L = \leftarrow, -3 \right] \cup \left[2, \rightarrow \right)$

01:53 02:36

Del

I also used videos' I
found on internet



Organized in the LMS

- ▶ Animasjoner og videoforklaringer
 - ▶ Generelle videoer
 - ▶ K1: Video og animasjoner - Algebra
 - ▶ K2: Video Likninger
 - ▶ K3: Video - Sannsynlighet
 - ▶ K4: Video og animasjoner - Funksjoner
 - ▶ K5 Vekst og derivasjon
 - ▶ K6: Lineær optimering
- ▶ Alle videoene kan du finne her.

2. Aritmetiske rekker

Publisert 15 August 2014 av Gotaas, Anne Cathrine
Kompetansemål: 1a) Tallfølger og rekker

Aritmetiske rekker 1

To formler dere skal kunne:

- Finne ledd nummer n , altså a_n
- Finne summen av rekken

$$2 + 4 + 6 + 8 + \dots$$

Finne differansen $= d=2$

$$a_n = a_1 + d(n - 1)$$

$$a_{11} = 2 + 2 \cdot (11 - 1) = 2 + 2 \cdot 10 = 2 + 20 = 22$$

Finne summen av en rekke:

$$S_n = \frac{a_1 + a_n}{2} \cdot n$$

$$S_{11} = \frac{2 + 22}{2} \cdot 11$$

ScreenCast-O-Matic.com

«If you want to achieve your objectives,
you have to be prepared for a daily dose
of pain or discomfort.»

Paulo Coelho

Student voices:

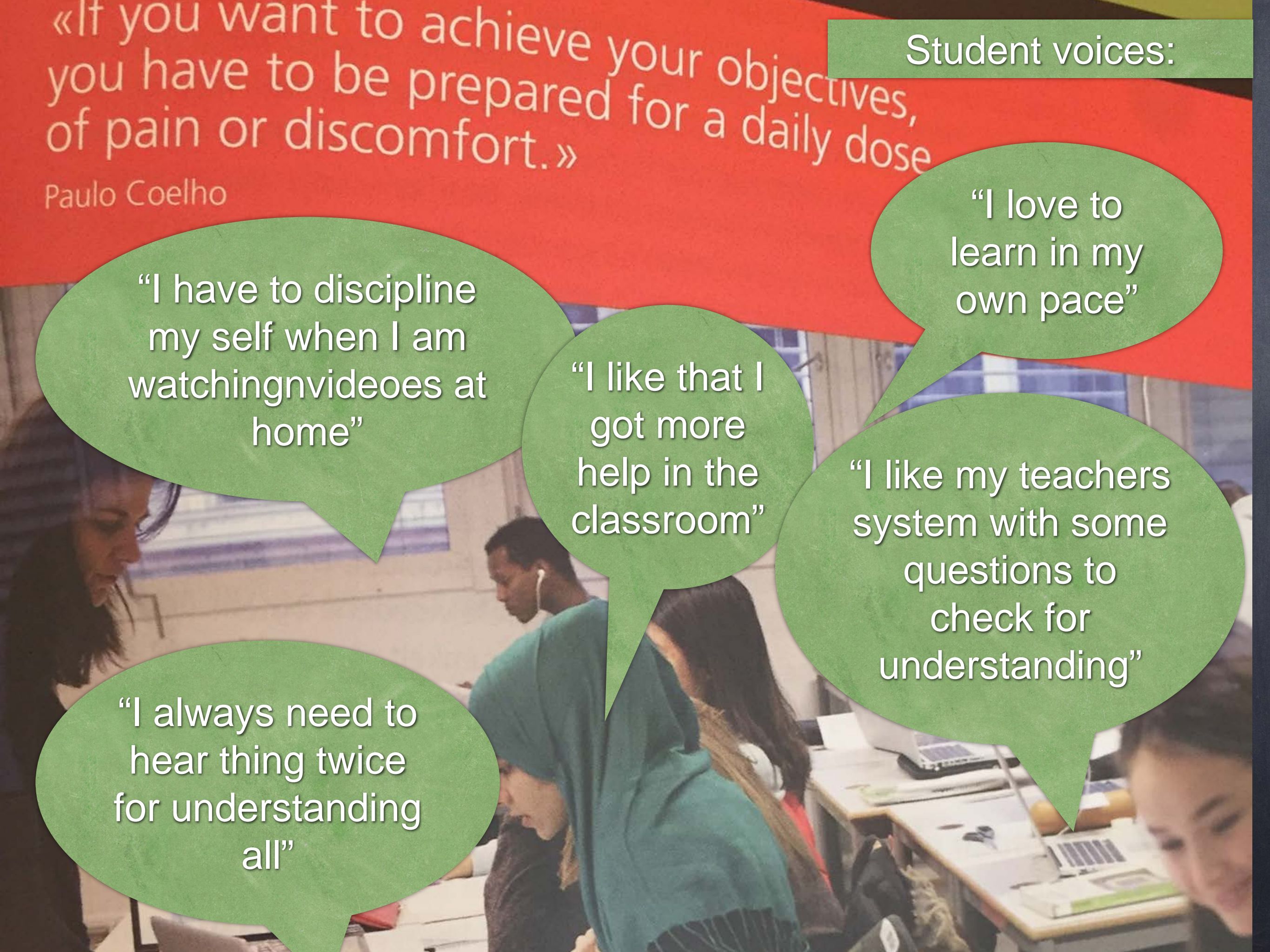
“I have to discipline
my self when I am
watchingnvideoes at
home”

“I like that I
got more
help in the
classroom”

“I love to
learn in my
own pace”

“I like my teachers
system with some
questions to
check for
understanding”

“I always need to
hear thing twice
for understanding
all”



Pre tests and post tests – with Kahoot

Søk

Nyheter 1-7 / 2016 / Uke 16

Icons: Play, Presentation, Document, Checklist, Letter A, Person, Kahoot!

Diskusjonsspørsmål: Får gifte seg i kirken
#uke16 #ungdomstrinn #homofili #barnetrinn

#uke16 #ungdomstrinn #homofili

Created by: tv2skole
Language: Norsk

Plays: 4
Players: 7

Shares: 0
Favorites: 0

Play

Using Kahoot to engage

- *Kahoot is a student-response system with built-in game elements.*
- *The game elements make it much more fun and engaging for students.*
- *It is very easy to create and set up games.*
- *The gameplay is very streamlined and simple to administer in class.*
- *There is a growing collection of pre-made public Kahoots to choose from*

Free to use – no costs

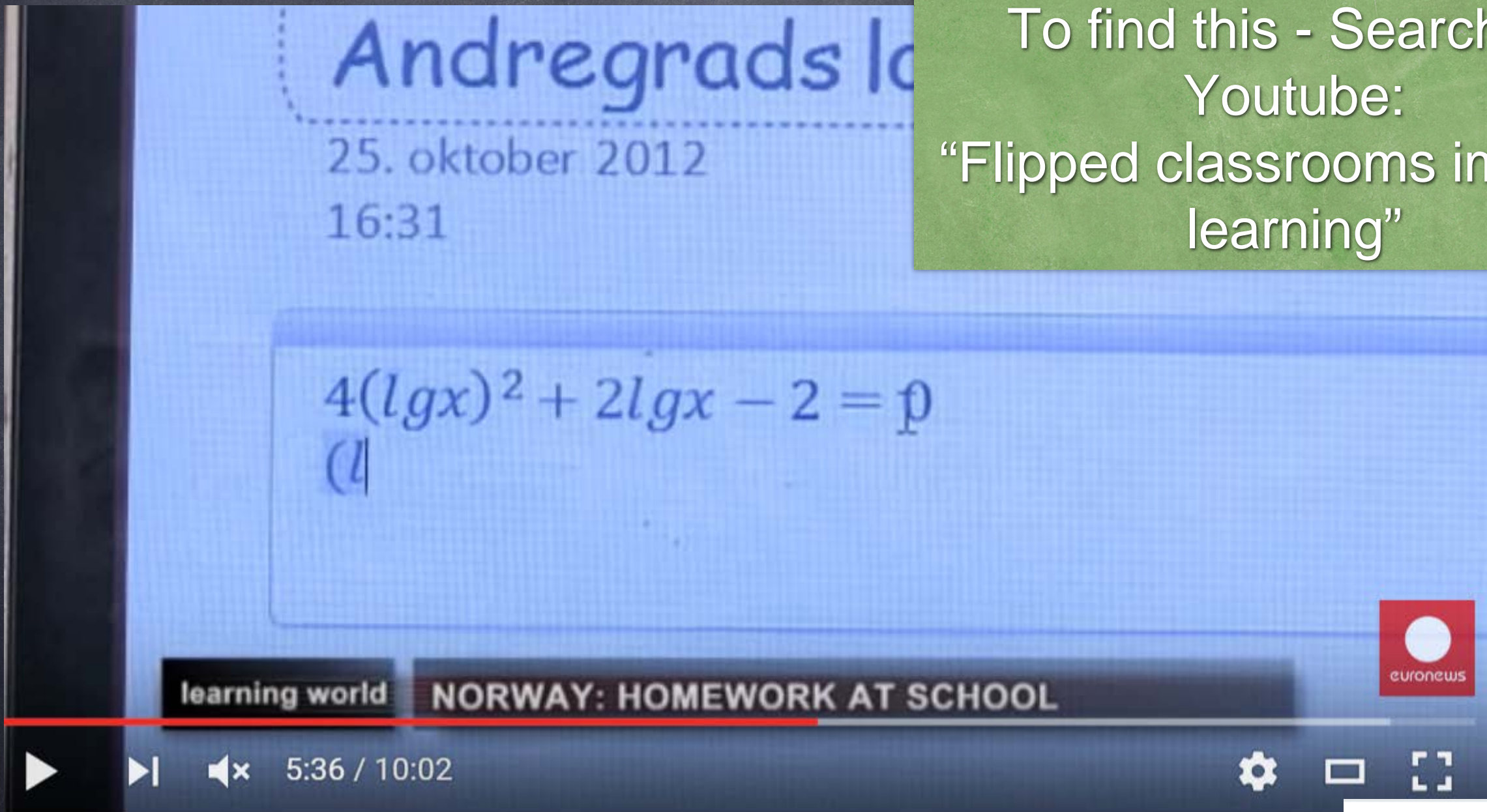
OK, let us see what
you know about
flipped learning

Open your PC, tablet or
mobilephone



If you want to hear more – You'll find an interview on Euronews

To find this - Search on Youtube:
"Flipped classrooms improve learning"



The screenshot shows a YouTube video player interface. The video content is a whiteboard with the following text:

Andregrads lo
25. oktober 2012
16:31

$$4(\lg x)^2 + 2\lg x - 2 = p$$

(l

learning world NORWAY: HOMEWORK AT SCHOOL

5:36 / 10:02

euronews

Thank you for listening