

THE CLASSROOMS OF THE FUTURE What Do Educators Think?



be important to education in the future

Think that interactive video* is going to

Anticipate self-paced curriculums

98%

98%

Believe video will play an important role in the personalization of education

98%

*in which content changes depending on viewer behavior

Are interested in VR/AR/360 video

The Benefits Of Tech

89%

1 in 3 education professionals see video as a way to reach

LEARN



91%

access to classroom learning

students who don't have

LIFELONG LEARNING

GREATER REACH

need the ability to continue learning new skills throughout their lives

More than ever students will



need digital skills to succeed

AI REVOLUTION

DIVERSE CAREERS 1 in 3 15 year-olds plan to pursue one of the top 10 most popular

they'll continue to be in demand

occupations, regardless of whether

From 1995 to 2014, use of IT more

than doubled in OECD countries,

and it's still growing - students



86% of educators think students need video

capture skills to succeed in their future workplace

opportunities

Technology

provides a way to

show students a

wider range of

80% 80% 82%

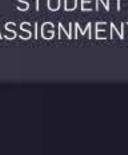
Educational Institutions Say Video Increases





CAPTURING STUDENT PERSONAL INTRODUCTIONS FEEDBACK ON CAMPUS EVENTS **ASSIGNMENTS** IN ONLINE LEARNING : INSTRUCTION **ASSIGNMENTS**





TRADITIONAL TEACHING



VS



FLIPPED FOCUS

Students learn new content

through video & tech

Students discuss and

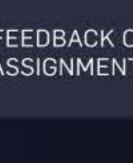
explore applications

Student-centered

Teacher-centered

OUT OF CLASS

IN CLASS



and present new content

IN CLASS

OUT OF CLASS

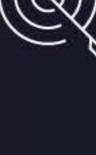
65%

INSTRUCTION 35% Student-centered

Students do homework to

practice new learning

Teachers review homework



INSTRUCTION

80%

20%

Potential Drawbacks

Left Behind

ideas and guide self-discovery

Teacher-centered

Benefits Of Flipping

Increases student engagement, which

in turn improves learning outcomes

Learning is more collaborative,

helping students build soft skills



Teachers lead students to investigate

IN THE U.S., NEARLY 18% OF SCHOOL-AGE CHILDREN DON'T HAVE INTERNET ACCESS AT HOME - MEANING THEY CAN'T

Public libraries, schools, and corporate donors are working

to provide wireless hotspots to students in need

Installing WiFi on school buses lets rural students

How Chatbots Improve Learning

By reviewing material repeatedly over time, student are better able to remember what they've learned

Software algorithms can predict when you'll start

to forget what you've learned and time reminders to

improvement than those who get delayed feedback

Teachers can't always grade an essay, but an Al can — Al

can even score papers within 92% accuracy, compared

Chatbots can track student performance and adjust the

curriculum to better meet their individual needs

Chatbots serve as a guide to help pace learning,

not a replacement for a teacher or professor

Learners who receive feedback immediately show greater

well to reap the benefits

Classrooms are may become more

Students may have trouble focusing

Flipped instruction must be executed

in a flipped learning environment

active, noisy, and distracting



SPACED INTERVAL LEARNING

optimize memorization

IMMEDIATE FEEDBACK

take advantage of longer commutes

DO HOMEWORK, ESPECIALLY IF IT RELIES ON TECH



to human graders SELF-PACED LEARNING

 $i = \sqrt{-1}$ NEXT LESSON...

$c^2 = a^2 + b^2$ $\pi = 3.14$ **SNATCHBOT** Free chatbot that can be embedded in learning platforms like Blackboard

Can be programmed with answers

to FAQs relating to course syllabus

Provides answers with links

and images to help guide

students through the course

Gives students immediate

answers and relieves

teachers' email load

SUMMIT LEARNING PROJECT

adjusts to their needs Teachers can focus on creating lessons, while

chatbots take over pacing

and assessment as

Acts as a virtual tutor that notes

students' trouble spots and

Chatbots adapt learning to Chatbot built on IBM's each student, enabling Watson and trained using self-paced learning data from the course's forum

students move from one lesson to the next **Communicating With Parents**

Jill answers routine, technical questions - Like "Where do I find ___?"

when aren't available to chat

JILL WATSON

Created by Asok Goel at

Georgia Tech, and added

to an online course as a

teaching assistant -

Students had no idea Jill

was really an Al

Preprogrammed answers to routine inquiries Auto replies to messages



Tools like Facebook

Messenger & Remind

help teacher and staff

communicate with

parents and older

students outside

of the classroom



BUT, the can also provide answers

 $\Delta s \ge 0$

outside of office hours

presented by

THE FUTURE OF EDUCATION, PERSONALIZED THROUGH TECH

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