

TECHNOLOGY, LEARNING, AND LIFE

Fundamental Principles of Online Learning and Teaching

Associate Professor Scott Richardson





Overview What's in this presentation?

- Technology and its Impact on Education • e-Learner Characteristics

- Ethical Considerations for e-Learning
- Role of the Instructor
- Engagement Strategies
- Interactive Technology
- Remote Learning is the New Normal
- What's Next in Digital Learning

- 7 Affordances of e-Learning (Cope &
 - Kalantzis, 2017), Connectivism

COVID-19:

Impact on Higher Education





82%

66%

Faculty members who cited that less than half of their academic institutions' courses were offered remotely prior to Covid-19

Students who claimed they did not feel mentally prepared for the move online

60%

Students who cited not feeling academically prepared for online learning

48%

Students who claim the pandemic has worsened their ability to remain focused and engaged

60%

Faculty members who reported a decline in student engagement

Findings of the Bridging the Digital Divide to Engage Students in Higher Education is an Economist Intelligence Unit (EIU) report (2020)

1st half of 2020: largest half year for global Edtech investment in over 10 years – at \$4.5 billion – 3x greater than the average 6-months of investment in the prior decade.



>50%

Students who cited limited engagement with fellow students as a significant challenge to remote learning.

33%

Faculty who reported minimal social interaction and communitybuilding opportunities as a key obstacle

Technology and its Impact on Education

Recent global events have accelerated the role of technology in education. Remote learning and virtual classrooms are rapidly becoming the norm.



Before Online Learning

After Online Learning

- Students needed to go to physical classrooms, schools, and libraries for education.
- Students have limited options to enrich their learning experience.
- Students are limited with educational institutions in their area.

• Students are no longer limited by location when it comes to learning. • Students have their pick of learning opportunities online.

• Students can enroll in schools all over the world.



Who is Learning Online

Pre-COVID

- One third of all learners in the US took at least one online unit and around 15% are enrolled exclusively online.
- In Australia, approximately 14% of learners study exclusively online, with the percentage of postgraduate learners studying online exceeding the percentage of undergraduate students.

During-COVID

• Everyone

Post-COVID

- ?
- However, we can assume it will be a higher proportion than Pre-COVID.



7 e-affordances of learning (Cope & Kalantzis, 2017) 1 ······ 2 ····· 3 ······ 4

Ubiquitous learning

> Anywhere, anytime

Active knowledge making

> Designing meanings

MultimodalRecursivemeaningfeedback

Text, image,Formativesound, dataassessment

Today's learners access education their way

Allow learners to produce knowledge rather than passively consume Develop resources in multiple formats Providing immediate feedback rather than the traditional two-week turnaround



7 e-affordances of learning (Cope & Kalantzis, 2017) 5 ····· 6 ····· 7

Collaborative Metacognition intelligence

Knowledge you can reach and use

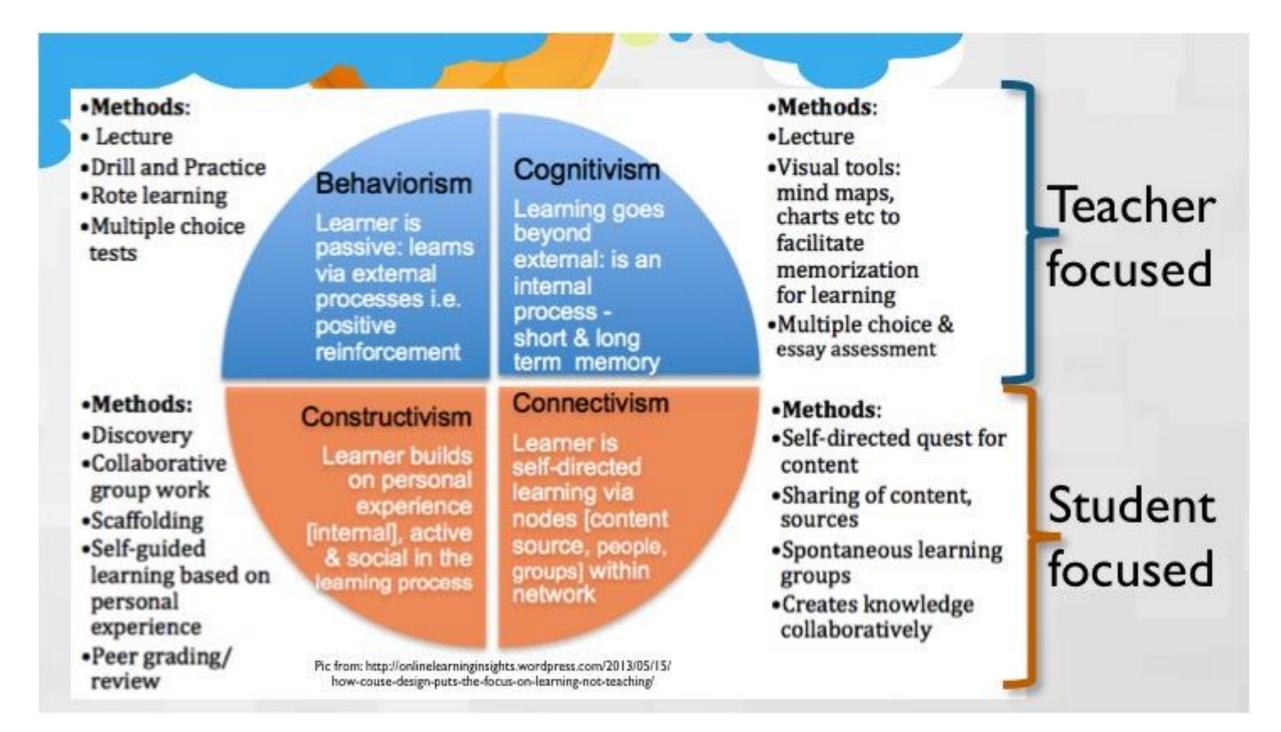
Thinking about thinking Each according to their interest and need

Provide multiple opportunities for learners to collaborate

Develop activities encouraging self reflection Personalise the learning experience for different learners

Differentiated learning

Connectivism (Siemens, 2005, 2012)



Ethical considerations for e-learning





Geographical, Cultural & Learner Diversity, Students with Disabilities

Online Proctoring, WebCams, Sharing Data, GDPR

Communication Email, Social Media, Synchronous Learning, Professional Boundaries

Contract Cheating, Plagiarism, Online Exam Cheating

Access

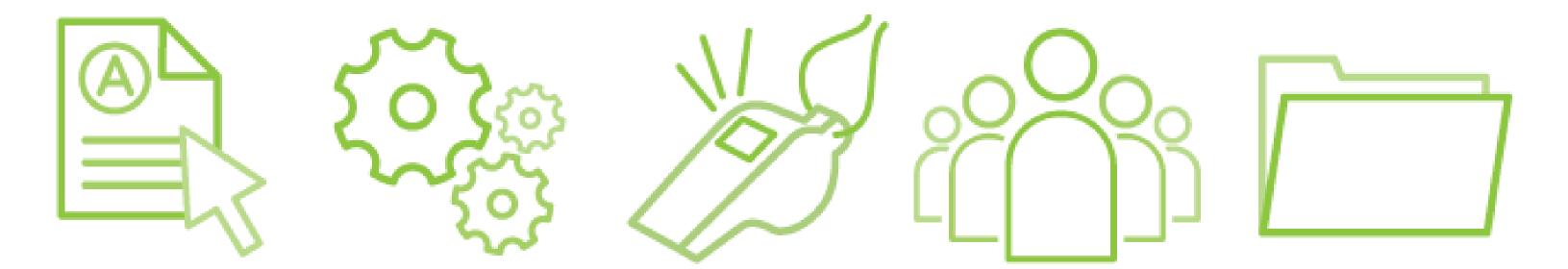
Student privacy

Cyber civility

Group Work, Social Media, Cyber Bullying

Academic integrity

Role of the Online Educator



E-learning Designer

Technology Specialist

Content Coach

Social Director

Taylor-Massey, J (2015)

Managing Correspondant

Do you have any questions?

Send them to us!



Engagement strategies

- Schlechty's framework
- Kahu's framework
- Chi's framework
- Provoke conversations and challenge students
- Encourage social media usage
- Make meaningful connections with students
- Offer personalised and approachable assistance
- Create innovative and fun activities
- Be clear about how and when to get in touch



Engagement strategies

- Use automation to monitor progress and communicate with students
- Encourage goal-setting, competition, and failure
- Celebrate greatness and accomplishments
- Focus on active learning
- Set clear expectations
- Break content into "chunks"
- Apply the Community of Inquiry (CoI) model in online discussions
- Provide regular feedback



Interactive Technology

Interactive technology is the future of education.

Collaboration and real-time classroom work is still possible even when done remotely. Interactive technology makes this a reality.



How Interactive Technology Improves Education

For Teachers

Interactive technology opens up unlimited possibilities for instruction.

Creative teaching models

Allows educators to think outside the box to get their message across.

Time-saving opportunities

Tools can be used to streamline parts of educational activities such as classroom games.



Digital substitute for physical elements

Interactive technology can augment some aspects of the physical classroom utilizing virtual labs and simulators, and virtual fieldtrips.

For Students

Interactive technology opens up possibilities for learning.



Technologies can gamify learning, allowing students to be more engaged with the experience.



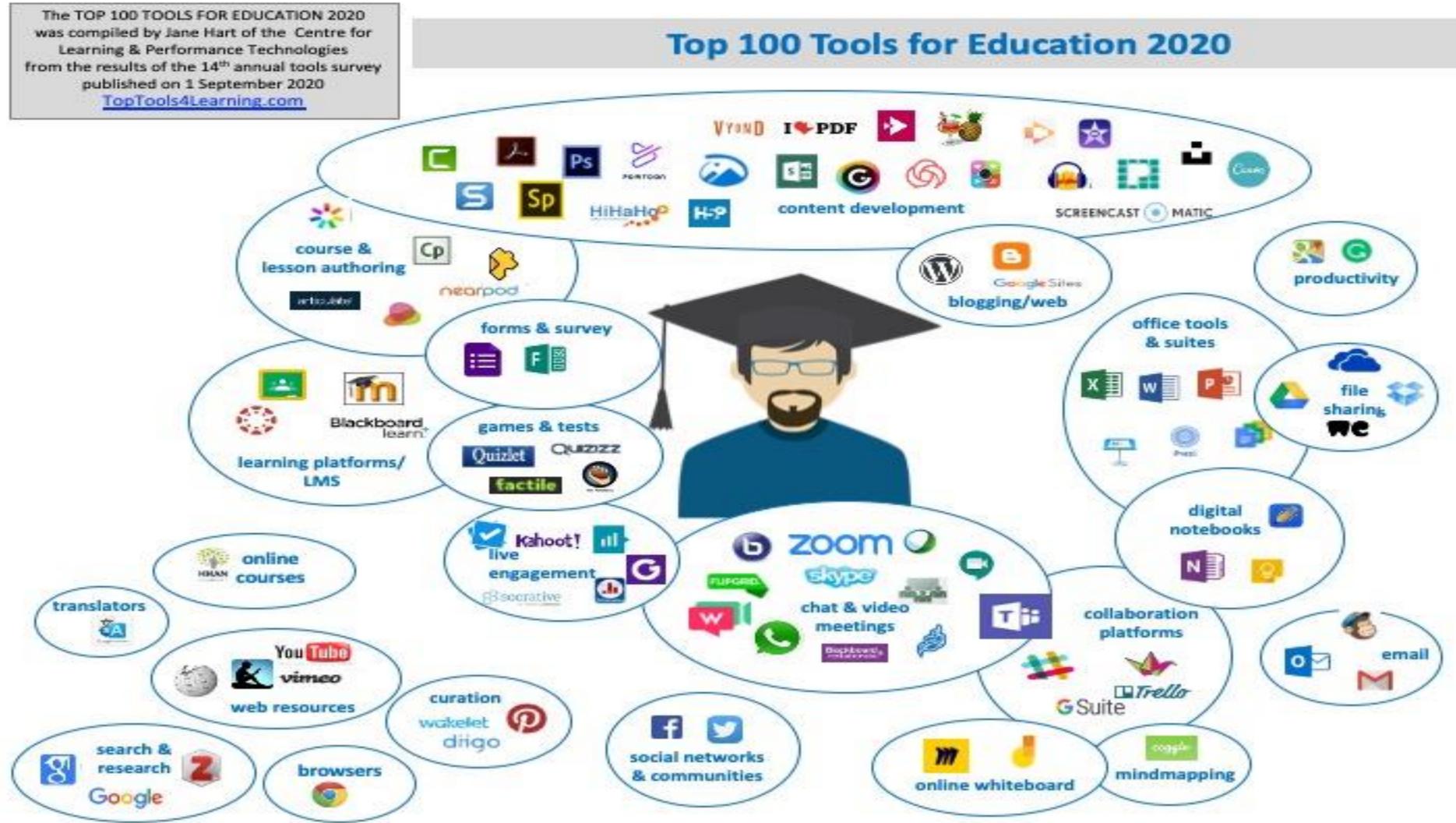
It introduces interacting with technology early in their learning experience, making students more comfortable with technology in general.



Inclusion and collaboration

Students can interact with other students and their educators in a more substantial way.

Custom-built for digital natives



Do you have any questions?

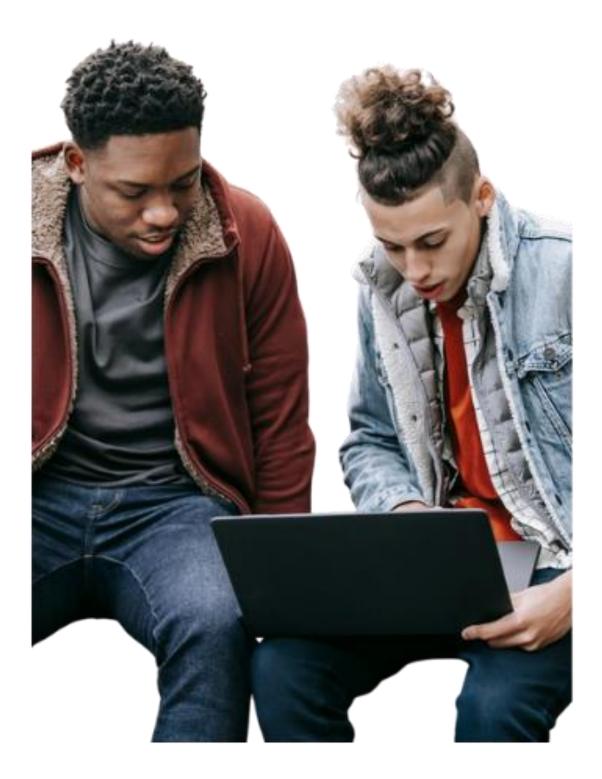
Send them to us!



Remote Learning is the New Normal

Even as global issues shift and change, remote education will be a permanent option. In the future will all face-toface courses be "blended".

Through technology, the physical barriers of the classroom are gone. New generations of parents and students will opt for remote learning.



Technology will continue to break the barriers and boundaries of education.

What's Next in Digital Learning

- Online classrooms mean digital learning for everyone
- A global market for practical courses and credentials
- Improvement in the quality of blended learning
- Rising demand for skills-based programs
- Greater investment on interactive technology in solving the digital divide
- MOOC's and Micro-credentials



You can't teach people everything they need to know. The best you can do is position them where they can find what they need to know when they need to know it.



Seymour Papert

Do you have any questions?

Please contact me anytime if you would like to discuss further. srichardson@heli.edu.au hope you learned something new.

