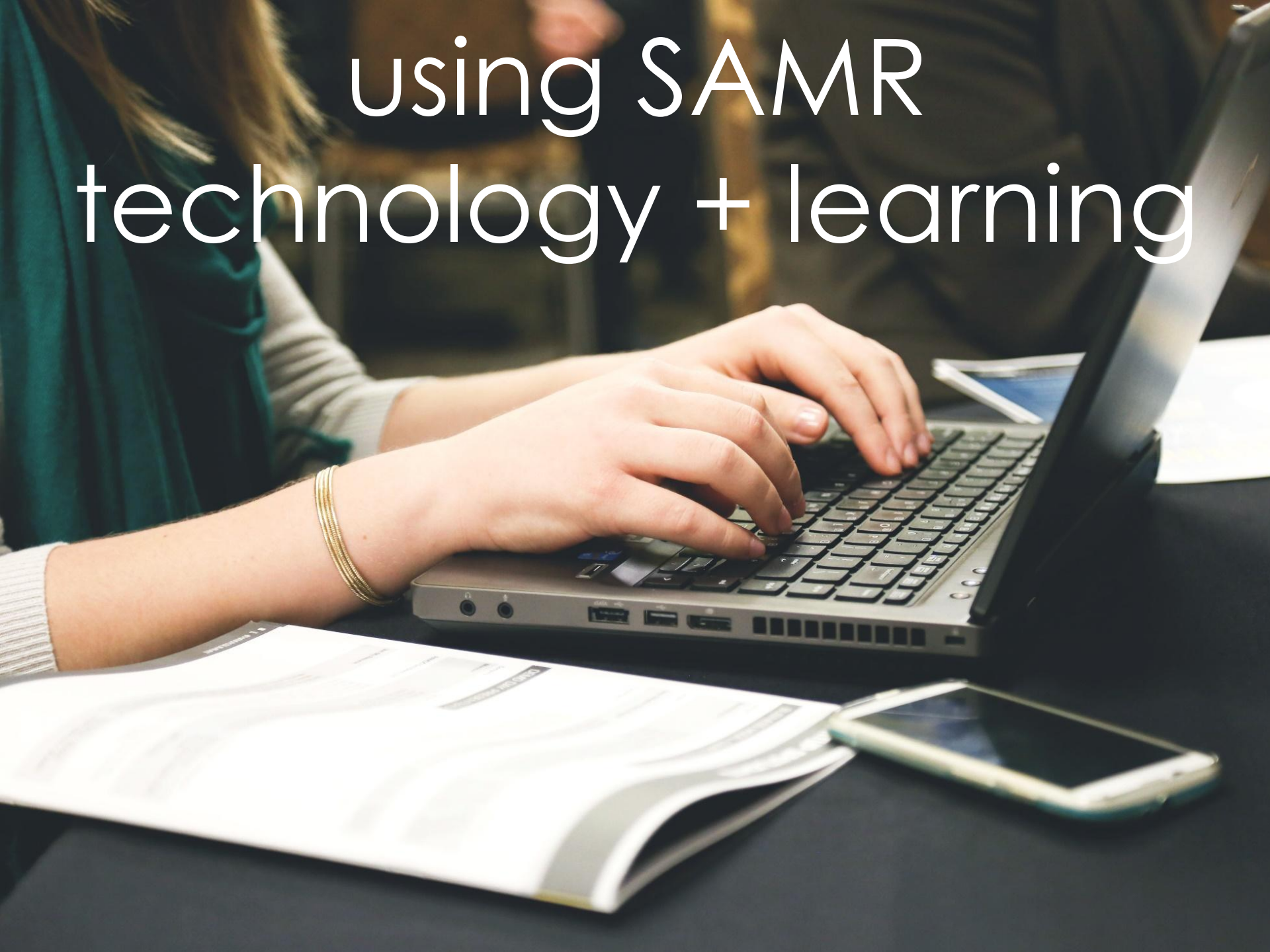


using SAMR
technology + learning



a bit about me...













don't quite work out

A





make better choices

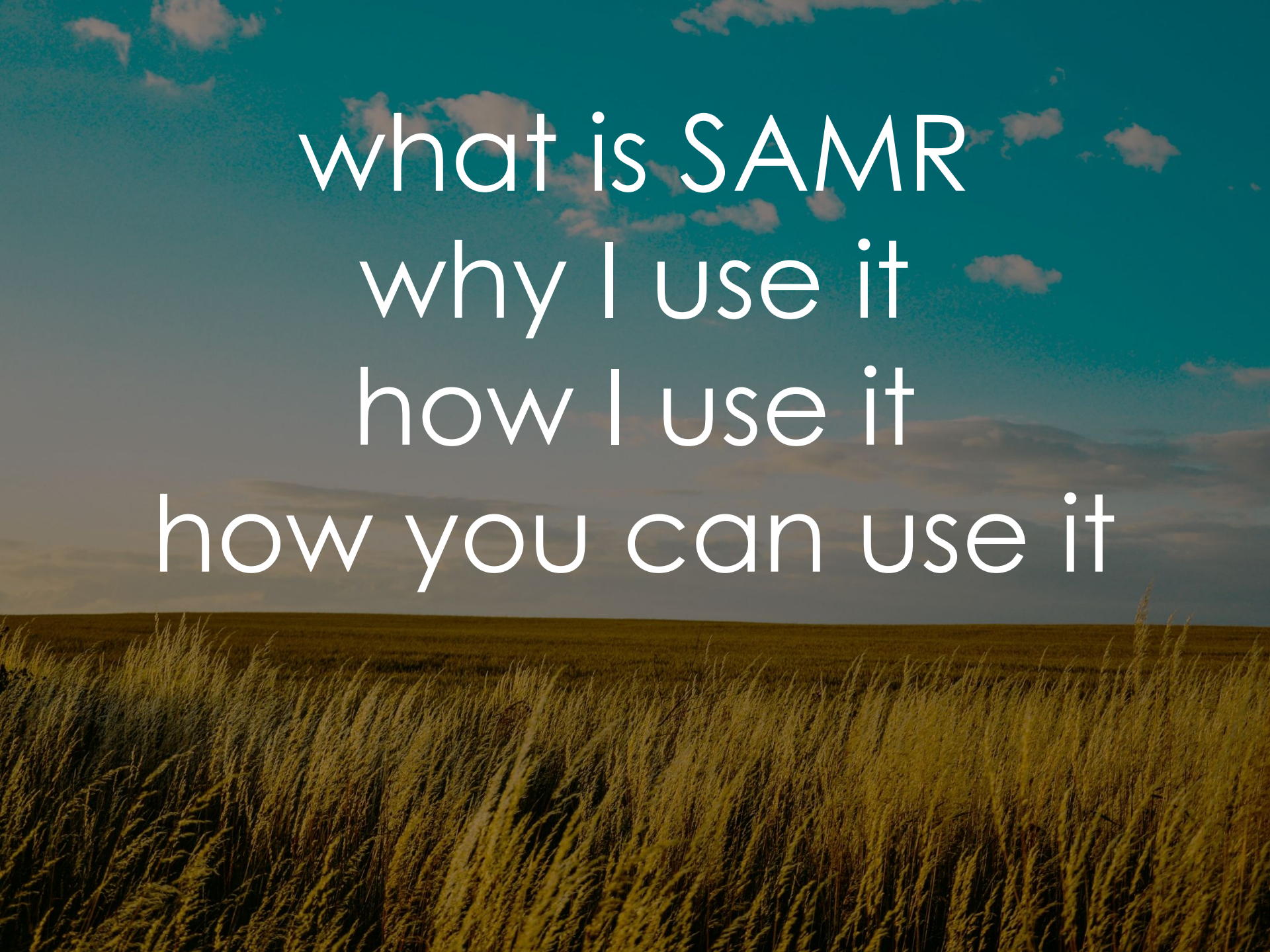
Trying to answer:

Is the tech required?

Is the tech a good fit?

Is it worth it?

How to best implement it?



what is SAMR
why I use it
how I use it
how you can use it



Go to: [menti.com](https://www.menti.com)
Code: 741825

A bit about you...
& how you feel about technology



“technology”



A collection of old, rusty tools including a hammer, pliers, and nails on a wooden surface. The tools are arranged on a dark, textured wooden surface. The hammer has a wooden handle and a metal head. The pliers have two long, curved metal jaws and a wooden handle. Several nails of various sizes are scattered to the right. The text "technology is a tool" is written in white, lowercase letters across the center, with "not just" written above it. A white arrow points from the word "just" to the word "technology".

technology is a tool
not just

SAMR is
a model
that categorizes
educational use of
technology

SAMR



Enhancement

Substitution
Tech acts as a direct tool substitute, with no functional change

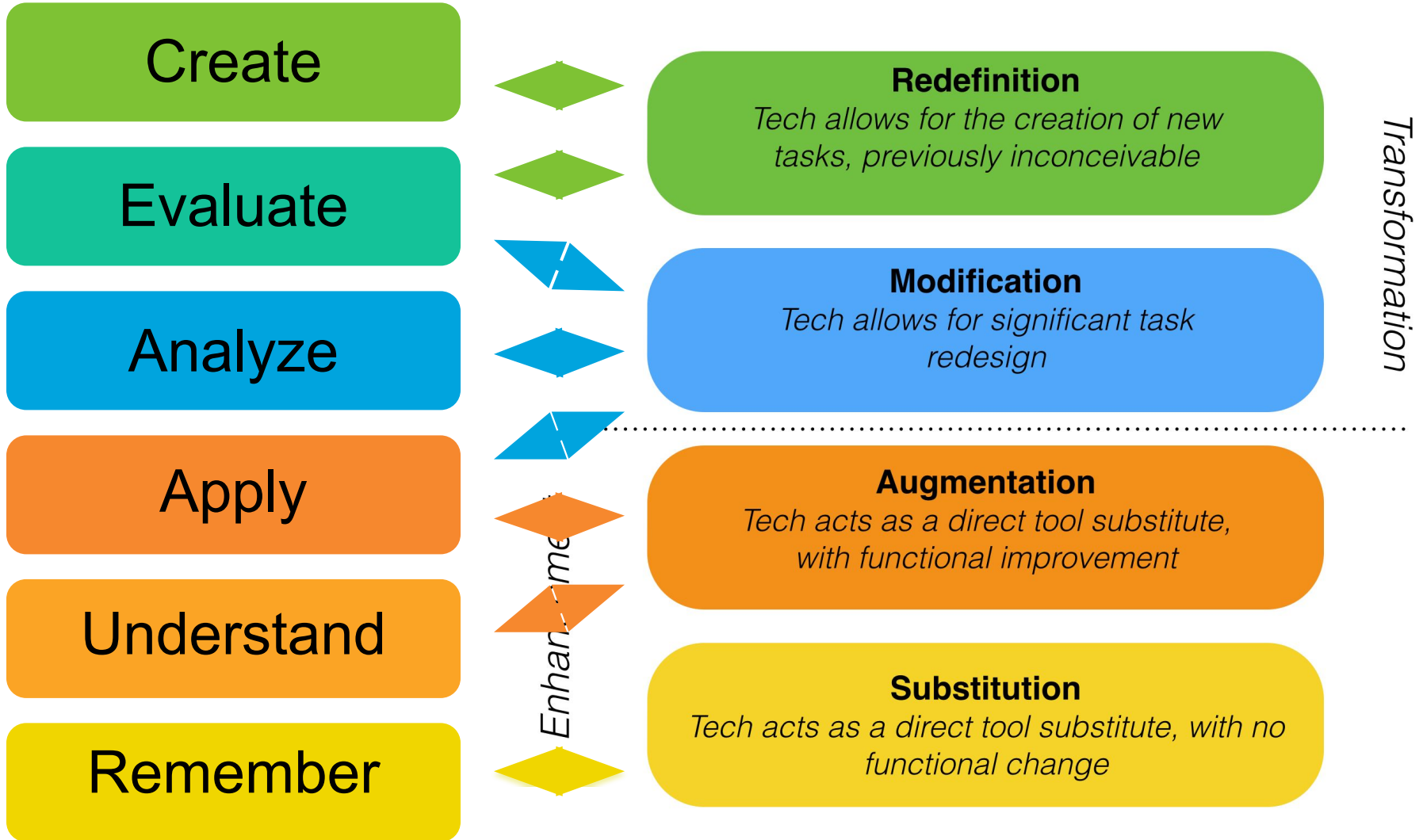
Augmentation
Tech acts as a direct tool substitute, with functional improvement

Modification
Tech allows for significant task redesign

Redefinition
Tech allows for the creation of new tasks, previously inconceivable

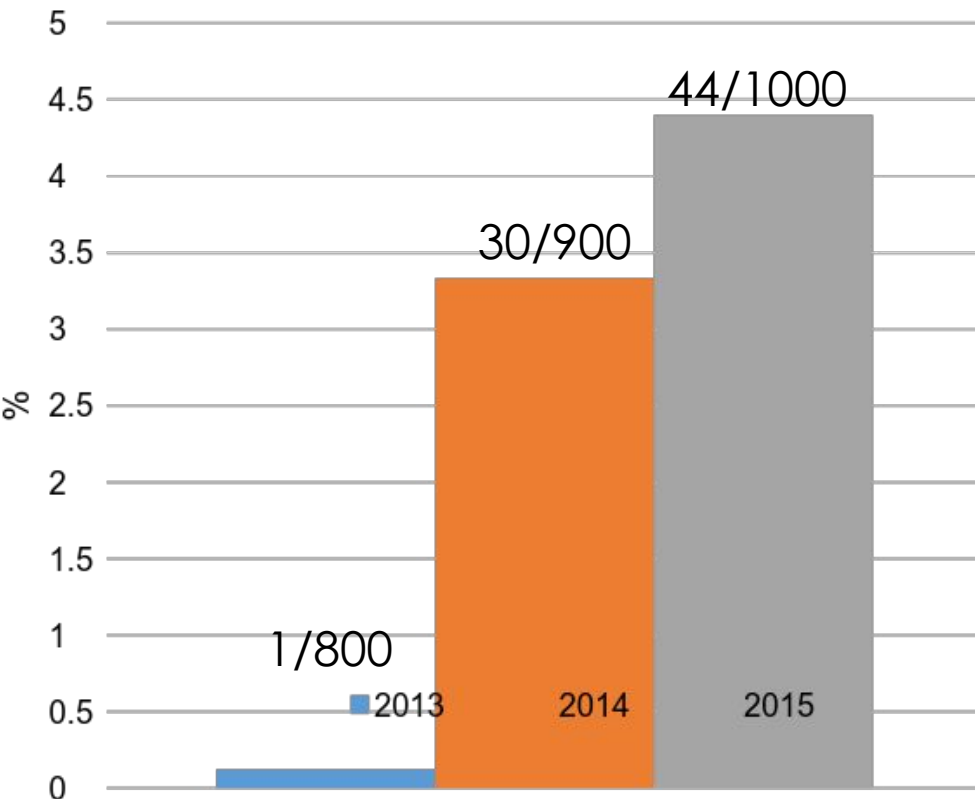
Transformation





Use of SAMR

K-12 % of total # of sessions at ISTE mentioning SAMR



(Hamilton, Rosenberg & Akcaoglu, (2016) p.434)

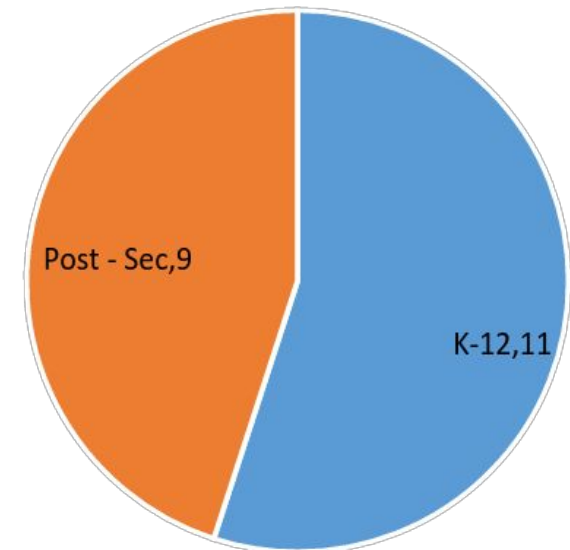
In publications:

In combination with and along side other models (TPACK, TIM)

Used to

plan/measure/analyze/categorize & evaluate technology implementation and teacher PD

Random Selection of Articles 2012 - 2017



Criticism

- theoretical basis and evidence
- context
- focus on tech
- different interpretations + applications
- hierarchy

Miller, K. & Putnam, L. (2015). More of the same? Understanding transformation in tablet-based academic library instruction. *Internet Reference Services Quarterly*, 20:105–126. DOI: 10.1080/10875301.2015.1092188

Hamilton, E., Rosenberg, J., & Akeoglu, M. (2016). The substitution augmentation modification redefinition model (SAMR) model: A critical review and suggestions for its use. *Tech Trends*, 60:5 433-441. DOI 10.1007/s11528-016-0091-y

SAMR



Enhancement

Substitution
Tech acts as a direct tool substitute, with no functional change

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Redefinition
Tech allows for the creation of new tasks, previously inconceivable

Transformation

Why I use it

- flexible – student focused
- helps isolate tech from activity & pedagogy
- entry into understanding the impact of technology
- perfect for applying to a single activity or assignment
- easy to use as part of a team

How I use SAMR:

My Plan:

Start w context

LO > ACTIVITY > TECH > IMP

REFLECTING



An aerial photograph of a Martian canyon system, showing a large, dark, winding channel on the left and a more rugged, reddish-brown canyon on the right. The word "MARS" is overlaid in white, sans-serif capital letters in the center of the image.

MARS



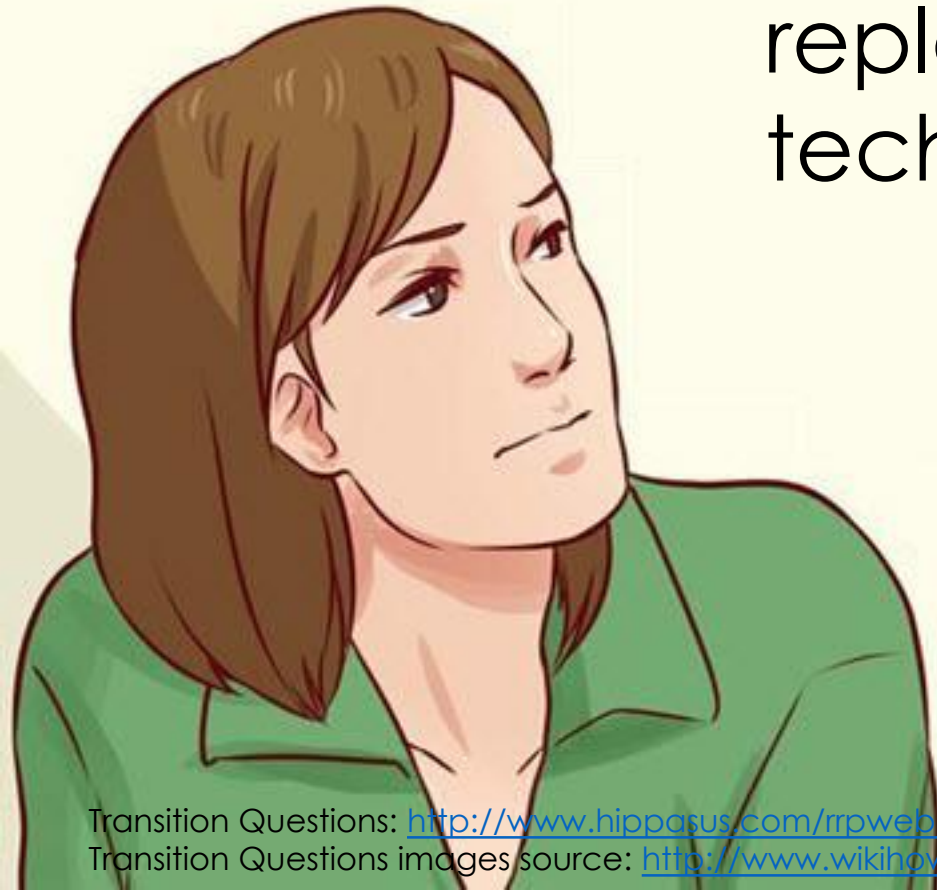
RAMS

A close-up photograph of a person's right arm holding a weathered wooden staff. The person is wearing a light blue sleeveless top and has two beaded bracelets and a ring on their hand. The background is a desert landscape at sunset, with a saguaro cactus and mountains visible under a warm, golden sky. The word "ARMS" is overlaid in white, bold, sans-serif capital letters across the center of the image.

ARMS

substitution

What will I gain by replacing the technology?



Anthropology 250

Professor Katie Sinclair

Topic Crafting with Google Docs

Starting Topic	Focused Question	Keywords
Residential Schools	The History of Blue Quills Residential School	Blue Quills, St.Paul, History
Healthcare (In)access & Discrimination	What are some factors that contribute to patient-doctor dissonance between Indigenous people and the Canadian healthcare system? How can this be reconciled?	Healthcare, health access, Canadian healthcare, mental health, patient-doctor dissonance, patient relationships, cultural competency, anti-oppressive practice, institutional racism, healing, intergenerational trauma
Language Revitalization	What does language revitalization look like in our local, Edmonton, Treaty 6, context?	Language rights, culture, cree (nehiyaw), Alternative narratives

Anthropology 101

Professor Katie Sinclair

Evaluating with Google Docs

ANTH 101 Online Source Evaluation ☆

File Edit View Insert Format Tools Table Add-ons Help Last edit was made on February 12 by anonymous

100% Normal text Arial 48 **B** *I* U A            

Would you use it?

Why or Why not?

<http://bit.ly/2j5njLc>

It is recent, has many sources, but would have to check out to see if they are credible. The article is very general and hits a lot of points under one topic. It is also biased as it comes from a poverties website itself. Depends on how you go about with your opinion.



100%

Normal text

Arial

48



Looked at 2 of the sources, and they are legitimate sources (research article, academic journal)

The facts don't seem reliable and the grammar isn't great; the source lacks reliability. Also, it is not peer-reviewed which leaves room for error in the facts.

Shoutout to Professor Sinclair.

Recent article, uses lots of sources, some from 2010.

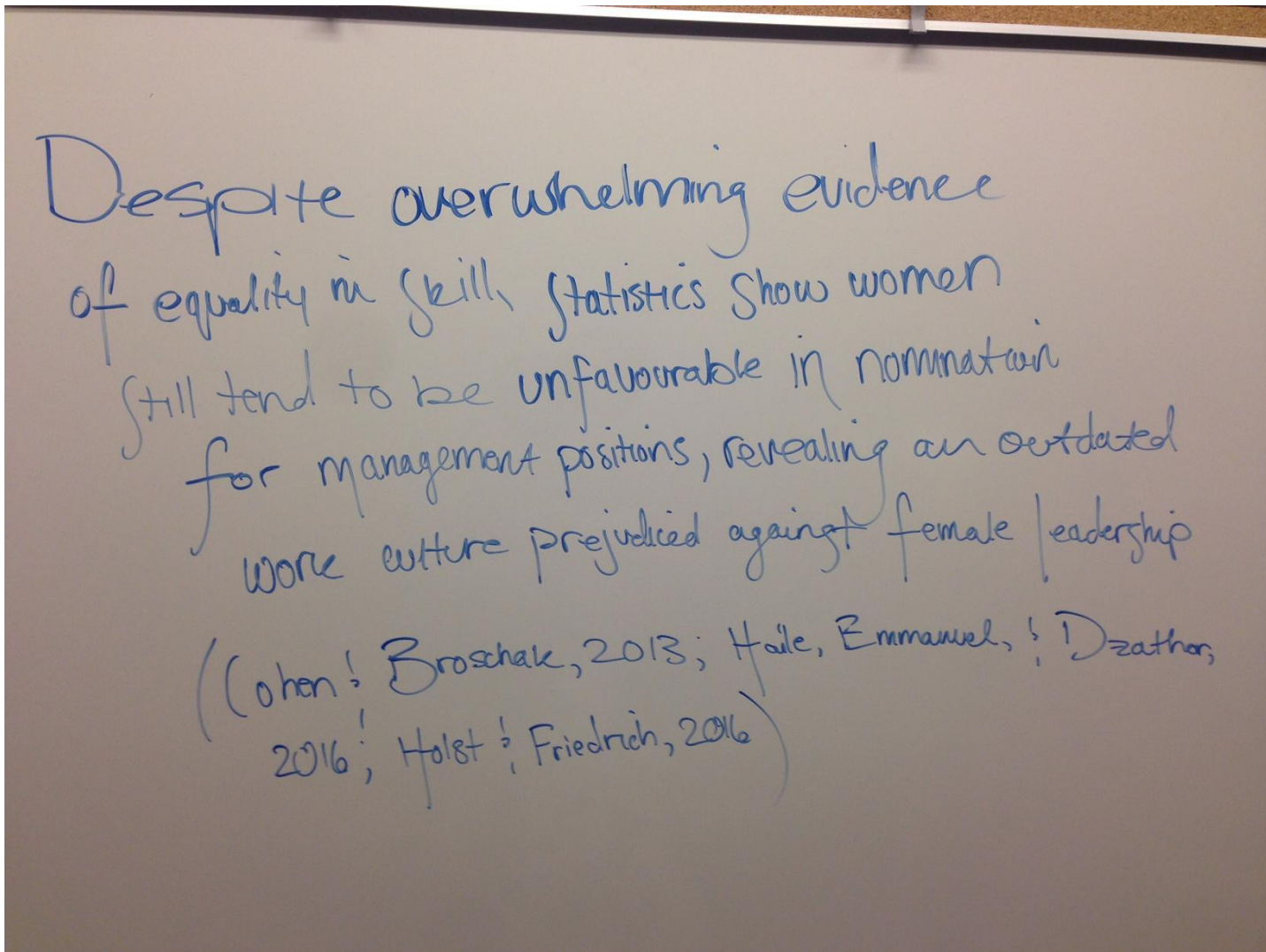
Even though it is not from an academic journal, it looks to be reliable

Also the author is a digital strategist and filmmaker which brings the idea that he may skew information to make it more interesting for his blog -FACTS

Organizational Behavior 201

Dr. Noufou Ouedraogo & Professor Launa Linaker

Paraphrasing with whiteboards



Anthropology 101

Professor Katie Sinclair

Bonding with AR app Aurasma



What can be gained by removing tech?

Librarian Holly Arnason - EPL

design thinking with craft supplies



augmentation

What additional features am I using?

Have I added an improvement to the task/process that could not be accomplished with the previous tech at a fundamental level?

How do these features contribute to the learning design?



Astronomy 120/122

Dr. Stefan Cartledge

Wiki with Pbworks, then Blackboard

Astrophotography

Astrophotography is the photographing of objects in space and can be as simple as amateur photography to more advanced forms such as the Hubble Space Telescope. Seeing truly is believing, especially when dealing with distant planets, stars, and nebulae. Not only are the images absolutely stunning, but also very revealing of the mysteries of the universe. Astronomers utilize high budget large orbiting telescopes such as The Hubble Space Telescope and the James Webb Space Telescope to see better quality images outside of the distorting atmosphere. Different lenses can capture different wavelengths, such as near-infrared, ultraviolet, and visible light, viewing nebulae in a whole new light (pun intended). The images on the right were taken by Hubble's Wide Field Camera 3, revealing just how broad the wavelength range truly is. The above image is taken in near visible light, while the bottom image is taken in near-infrared light. By using infrared light to penetrate the dust, the infant star is revealed!



evolution of the wiki



What is one thing you learned that stays with you?

The types of distances and variability in the types of solar systems we can get.

I think we all have used wikipedia but never thought how much effort needs to be put in to create a wikipage. Just the fact that we had to do extensive research on the topic and then take all of that information and write in a form that is easy to understand was the most challenging and part.

How to search for appropriate sources, that are credible.

Our topic was Adaptive Optics, and prior to completing the wiki assignment, I did not understand how adaptive optics work. Was very interesting learning about AO systems.

I really hate APA citation.

I did not particularly enjoy the Wiki project, so I guess it confirmed that I do not enjoy group work. In saying that, I felt it went well in spite of that.

The value of the contract

How to distinguish credible websites.

I learned so much about exoplanets which made me interested enough want to continue with Astronomy.

I was fascinated by the many different ways that we, humans, can view the universe through many different types of electromagnetic radiation, and it interested me to learn about the ways that technology allows researchers to achieve those visualizations and data that allows us to understand our universe.

I found that for me the wiki project made me want to know more about the different robotic missions. I'm really interested in the surface conditions of other planets so it was neat to find information on our own!

Feedback/Improvements

- Deadlines/Timeline
- Clarity – More examples
- Technology support

Modification

How is the original task being modified?

How does this modification contribute to the learning design?



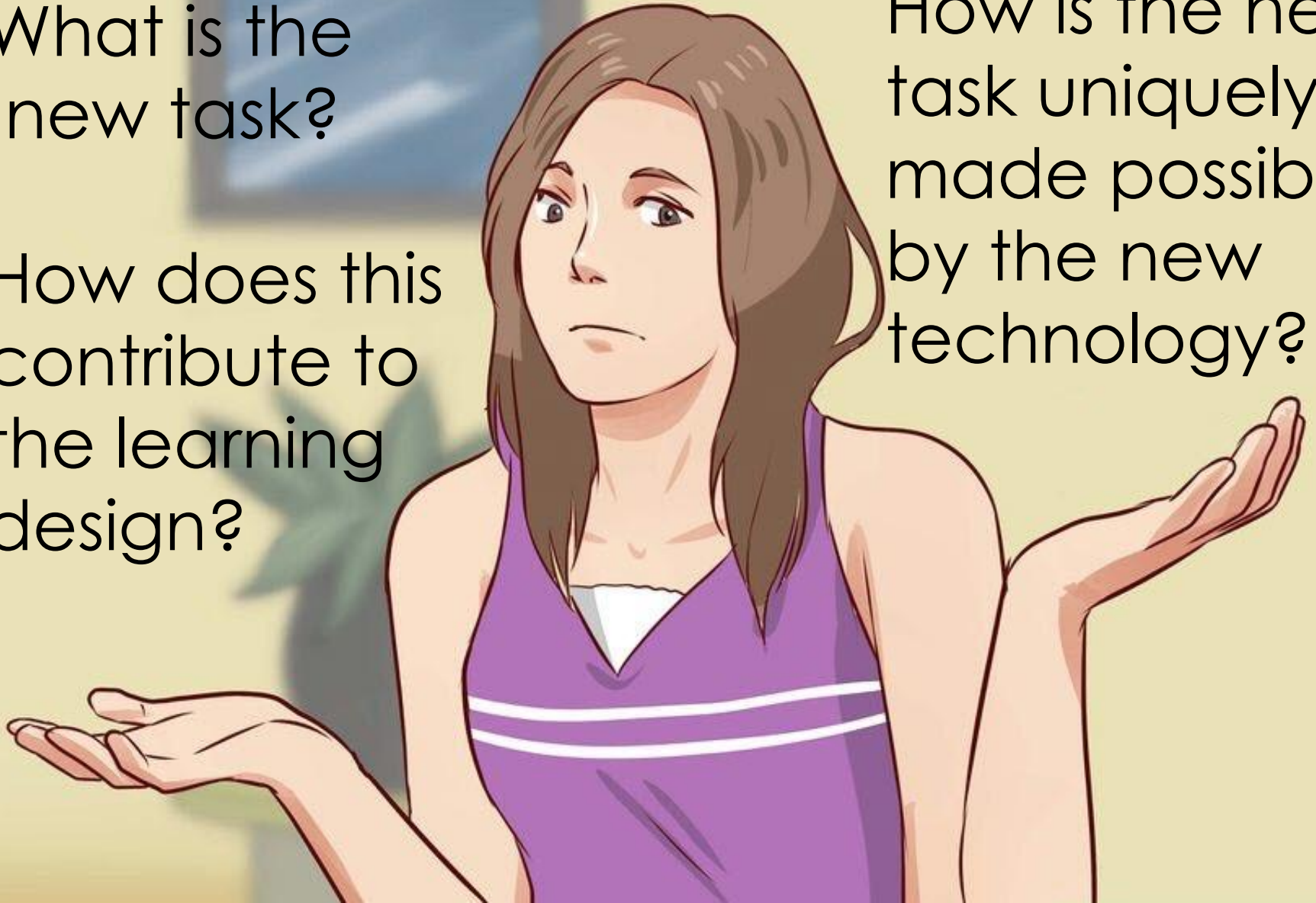
Does this modification fundamentally depend upon the new technology?

Redefinition

What is the new task?

How does this contribute to the learning design?

How is the new task uniquely made possible by the new technology?



Nursing 424 – High Priority Populations

Professor Mona Haimour

UN SDG's with pictochart, biteable video & twitter



Quality Education @SDGeducation - Jan 31

It's Global Awareness Day!! Bringing light to current issues. #SDGmove @JustinTrudeau @RachelNotley @doniveson @cblackst @CityofEdmonton



water4CAN @water4CAN - Jan 31

It's complete! Check out 6: Canada's Indigenous youtu.be/oyKbOi8DtGo #WaterForCAN2017 #SI #bethechange



Sustainable Develop

Made with <http://biteable.com>



2



1



Do you think what you learned about your topic and the SDG's be useful to you as a nurse?

Yes, because of it's impact on the lives of many individuals I will eventually serve.

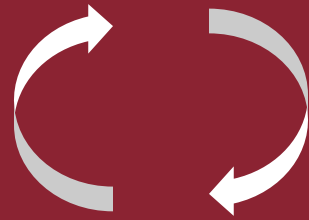
Do you think what you learned about making videos/infographics and using twitter will be useful to you as a nurse?

I don't think it will be helpful because I don't think there is any relevance to what I plan on going into as a career path, for my nursing career.

I greatly appreciate this fun project more than writing a paper! It was a thoughtful choice!

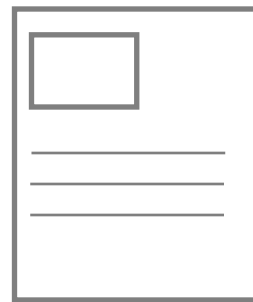
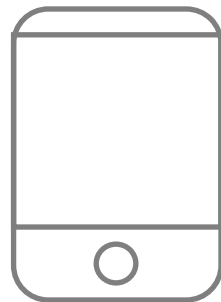
Unintended Consequences

- Hidden competencies and required learning areas that distracted from main learning objectives
- Students did more work than was required
- Students worked ahead of our schedule



Process

Product



it's not the
tool, the
task, or
product, it is
how



How will you use it?

Is there something
you do that you
would like to use
this model to reflect
on or improve?

Find out more:
<http://bit.ly/SAMRLTC2017>

Contact:
Martina King
kingm10@macewan.ca