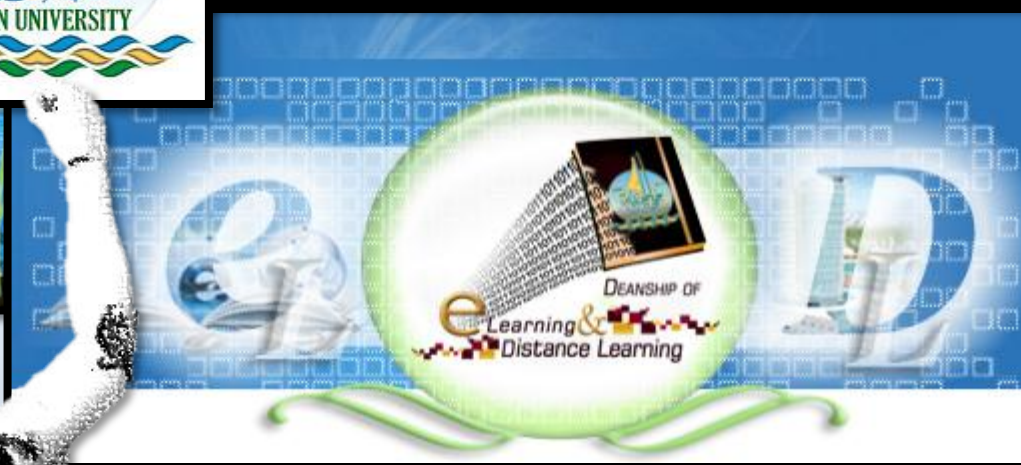
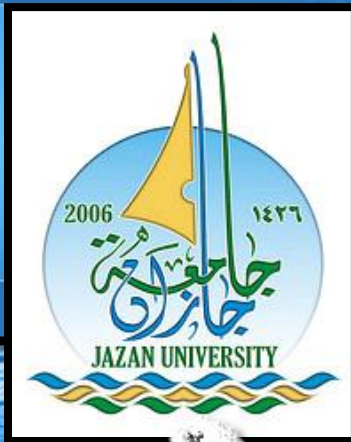




جامعة جازان
JAZAN UNIVERSITY



DNA OF A 21st CENTURY EDUCATOR

Zaid Ali Alsagoff

DNA



21st Century Educator?

CONTENTS

1

21st Century Educator

2

Learning

3

Design

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Empower

5

Assess

6

Reflect

7

Transform

1

21st CENTURY EDUCATOR?

WHAT has been said about the..

21st Century
Educator

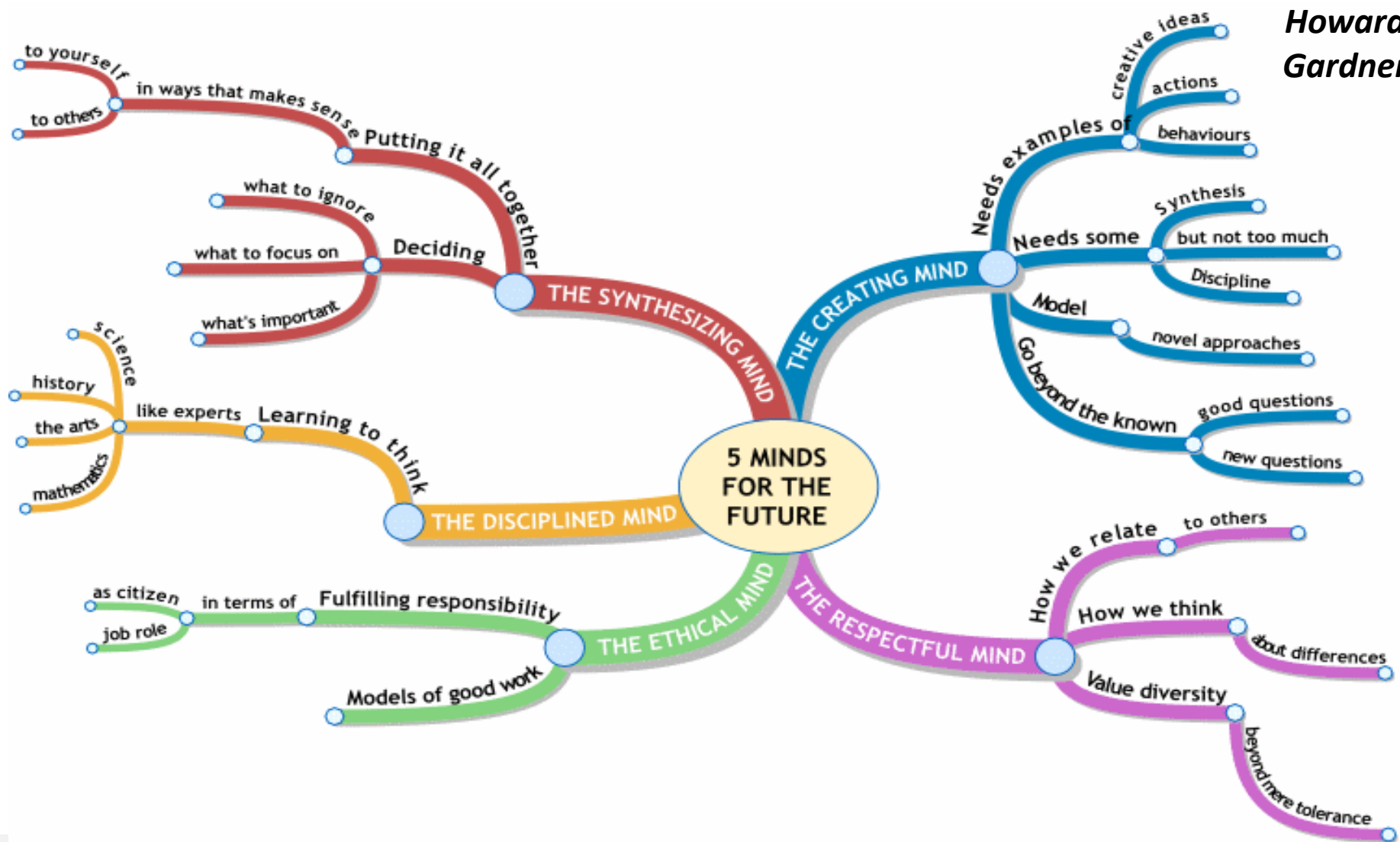
DNA = Ingredients

www.hetemeel.com

5 Minds for the Future



Howard Gardner



5 Characteristics of an Effective...



21st Century Educator

*Meris
Stansbury*



Anticipates the future.



Is a lifelong learner.



Fosters peer relationships.



Can teach and assess *all* levels of learners.



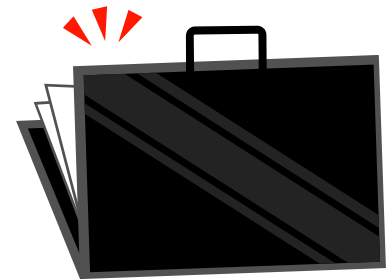
Is able to discern effective vs. non-effective technology.

<http://www.eschoolnews.com/2011/09/09/five-characteristics-of-an-effective-21st-century-educator/>



7 Habits of the Professor of the Future

1. Reviewing New Research and Information
2. Continuous Course Construction
3. Collaboration on a Massive Scale
4. Assessing Competencies
5. Creating New Resources
6. Meeting – Anytime, Anywhere
7. Face-to-Face Teaching and Learning Sessions

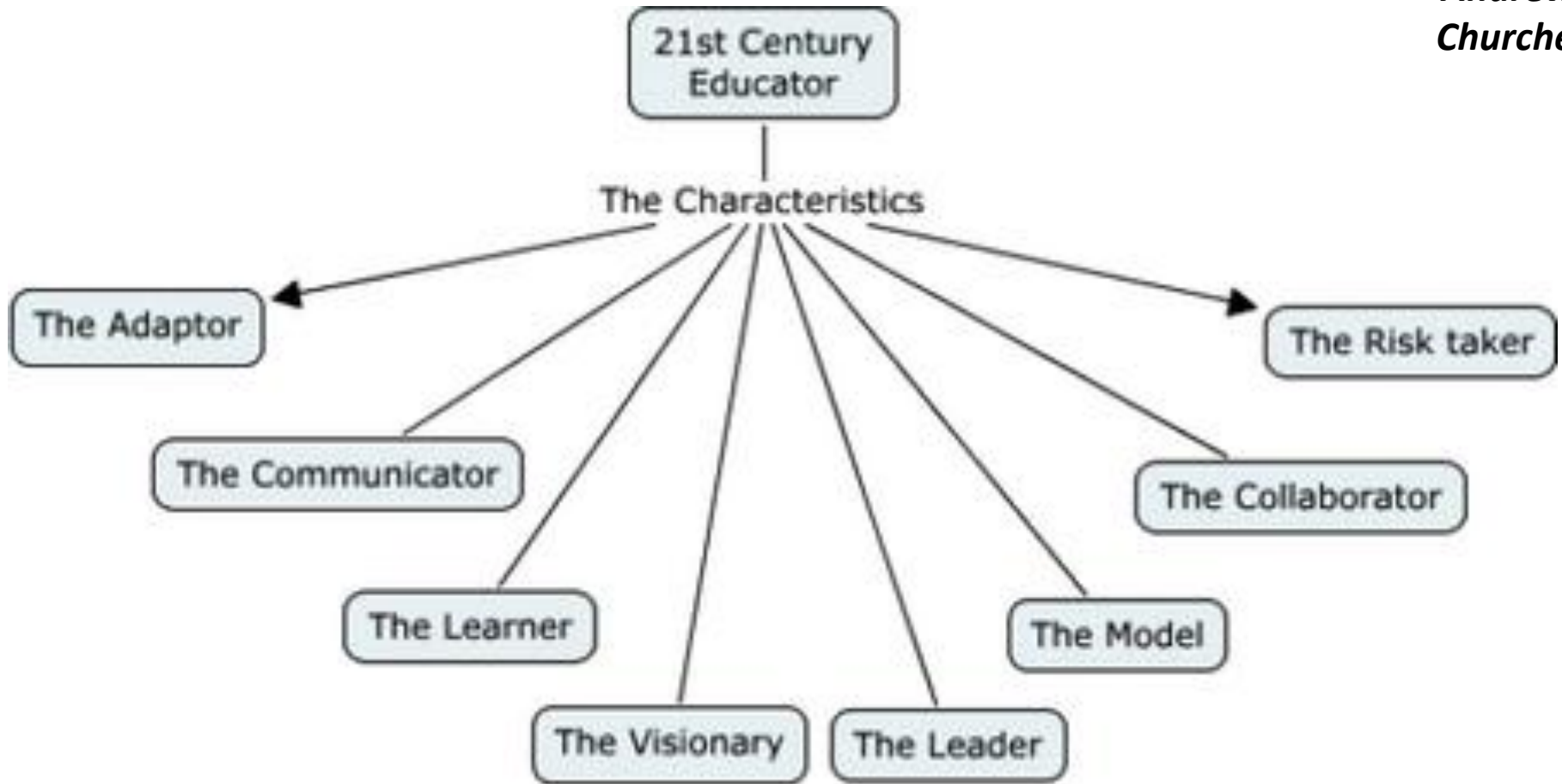


**Dr. Stephen
Murgatroyd**

8 Habits of Highly Effective...



Andrew Churches

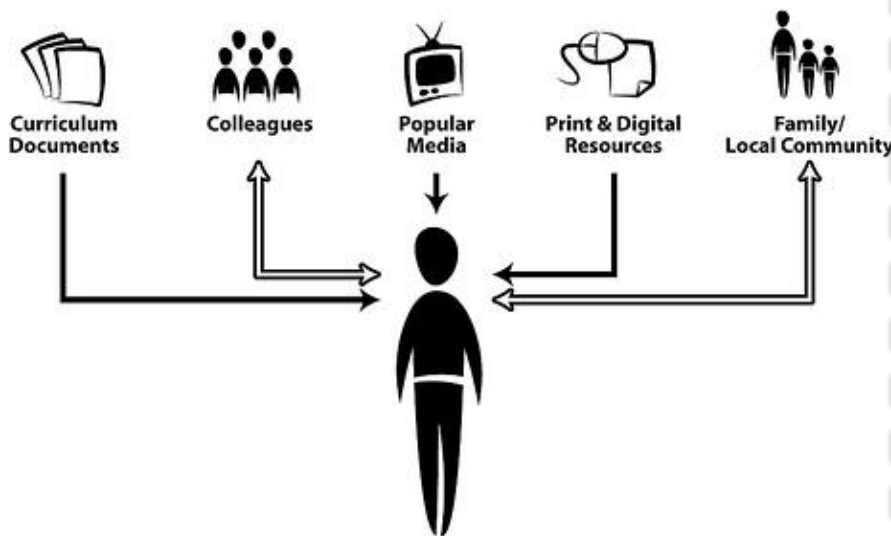


<http://www.masternewmedia.org/teaching-skills-what-21st-century-educators-need-to-learn-to-survive/>

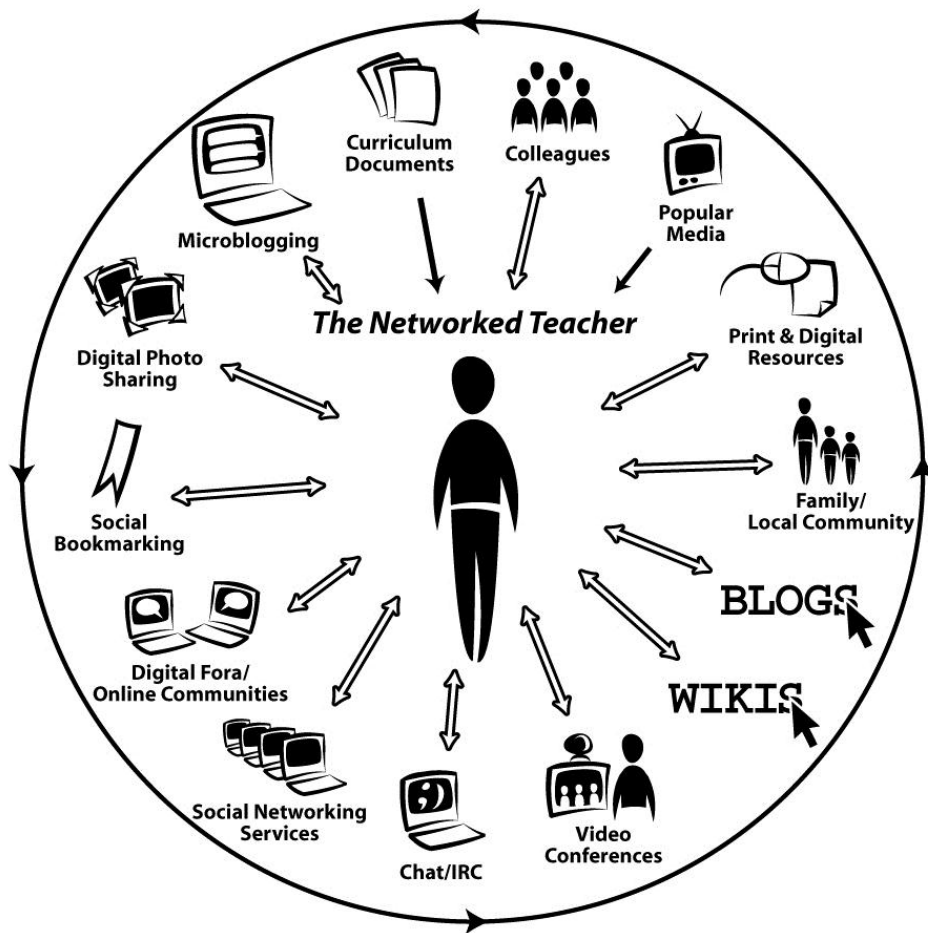


14

The Networked Teacher



Typical Teacher Network



Networked Teacher

<http://cusd2dot0.wikispaces.com/NewOld+Teacher>



23 Roles of an Educator...

Learner

Convener

Lecturer

Coach

Tech Support

Salesperson

Demonstrator



Theorizer

Coordinator

Bureaucrat

Sharer

Designer

Programmer

Agitator

Collector

Facilitator

Alchemist

Moderator

Curator

Evaluator

Mentor

Critic

Connector

http://www.huffingtonpost.com/stephen-downes/the-role-of-the-educator_b_790937.html



33

Digital Skills Every 21st Century Teacher...

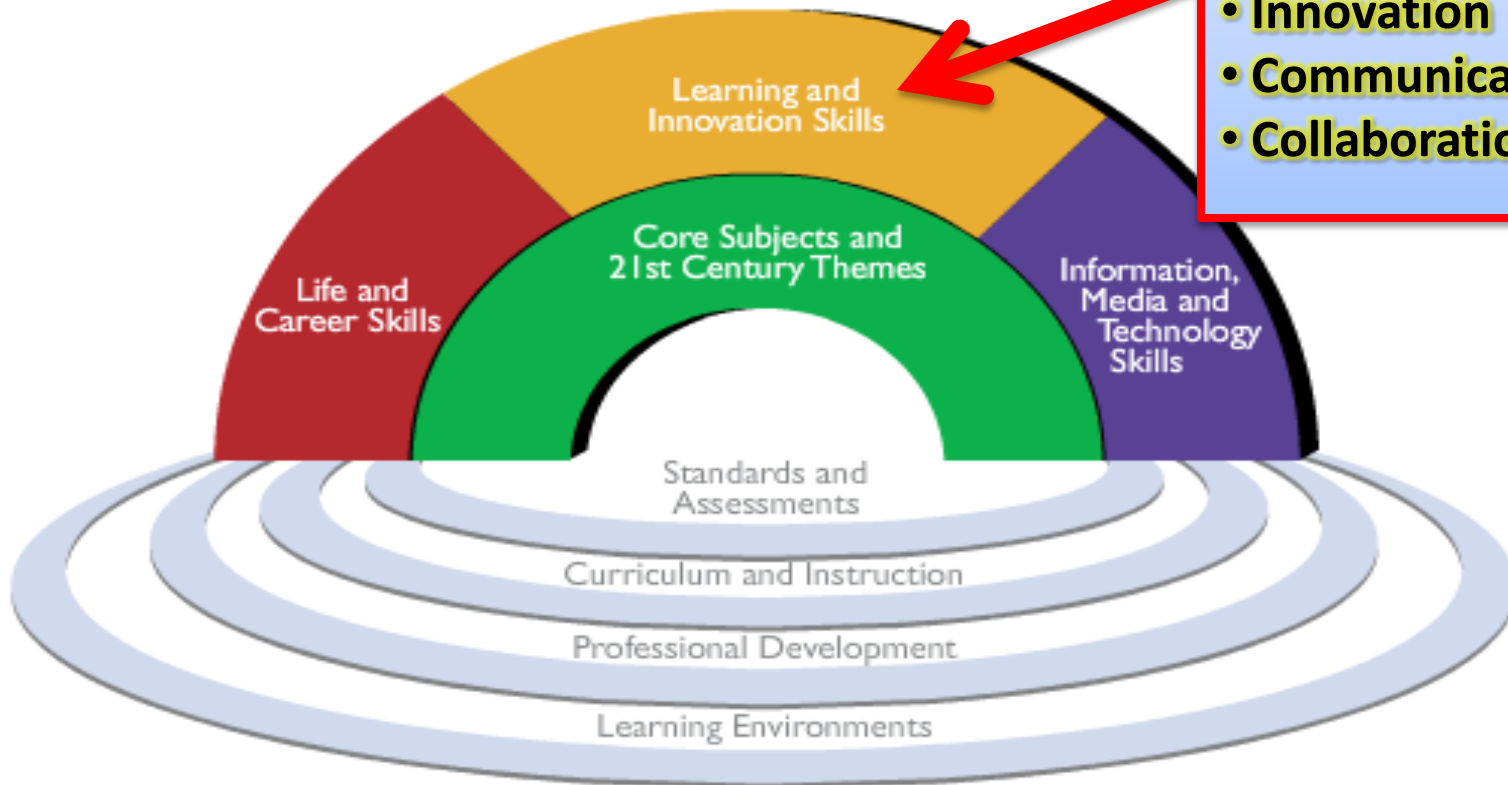
1. Create and edit digital audio
2. Use Social bookmarking to share resources with and between learners
3. Use blogs and wikis to create online platforms for students
4. Exploit digital images for classroom use
5. Use video content to engage students
6. Use infographics to visually stimulate students
7. Use Social networking sites to connect with colleagues and grow professionally
8. Create and deliver asynchronous presentations and training sessions
9. Compile a digital e-portfolio for their own development
10. Have a knowledge about online security
11. Be able to detect plagiarized works in students assignments
12. Create screen capture videos and tutorials
13. Curate web content for classroom learning
14. Use and provide students with task management tools to organize their work and plan their learning
15. Use polling software to create a real-time survey in class
16. Understand issues related to copyright and fair use of online materials
17. Exploit computer games for pedagogical purposes
18. Use digital assessment tools to create quizzes.
19. Use of collaborative tools for text construction and editing
20. Find and evaluate authentic web based content
21. Use of mobile devices like tablets
22. Identify online resources that are safe for students browsing
23. Use digital tools for time management purposes
24. Learn about the different ways to use YouTube in your classroom
25. Use note taking tools to share interesting content with your students
26. Annotate web pages and highlight parts of text to share with your class
27. Use of online graphic organizers and printables
28. Use of online sticky notes to capture interesting ideas
29. Use of screen casting tools to create and share tutorials
30. Exploit group text messaging tools for collaborative project work
31. Conduct an effective search query with the minimum time possible
32. Conduct A Research Paper Using Digital Tools
33. Use file sharing tools to share docs and files with students online

Should Have!



Route 21

- Critical Thinking
- Problem Solving
- Creativity
- Innovation
- Communication
- Collaboration



A Roadmap For 21st Century Learning

<http://www.21stcenturyskills.org/route21/>

**Let's try to make
some sense out of
all this!**



2

LEARNING

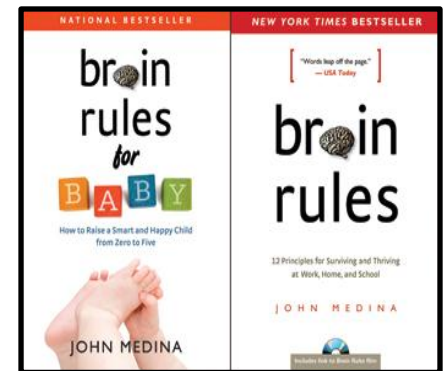
12 Rules

A Crash course on How Our **BRAIN** Learns...

1. **EXERCISE** - Exercise boosts brain power.
2. **SURVIVAL** - The human brain evolved, too.
3. **WIRING** - Every brain is wired differently.
4. **ATTENTION** - We don't pay attention to boring things.
5. **SHORT-TERM MEMORY** - Repeat to remember.
6. **LONG-TERM MEMORY** - Remember to repeat.
7. **SLEEP** - Sleep well, think well.
8. **STRESS** - Stressed brains don't learn the same way.
9. **SENSORY INTEGRATION** - Stimulate more of the senses.
10. **VISION** - Vision trumps all other senses.
11. **GENDER** - Male and female brains are different.
12. **EXPLORATION** - We are powerful and natural explorers.



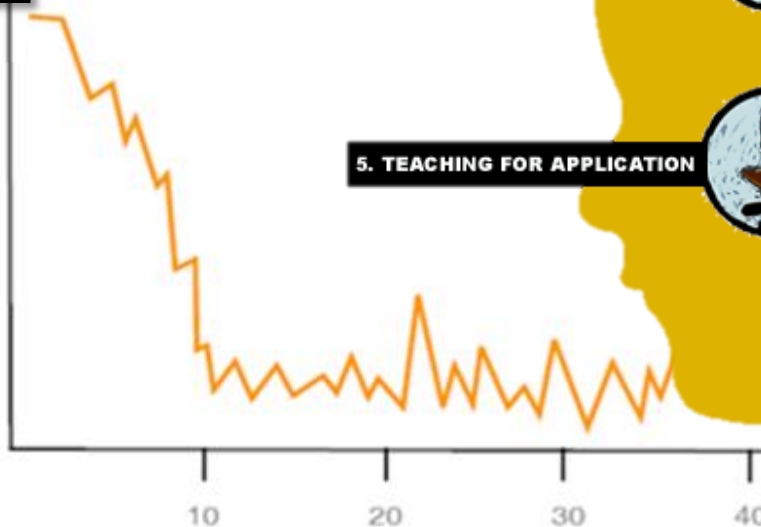
Dr. John Medina



Brain-Designed Learning



High
Attention
Low



6. EVALUATING LEARNING



5. TEACHING FOR APPLICATION



1. EMOTIONAL CLIMATE



2. PHYSICAL ENVIRONMENT



3. LEARNING DESIGN



4. TEACHING FOR MASTERY

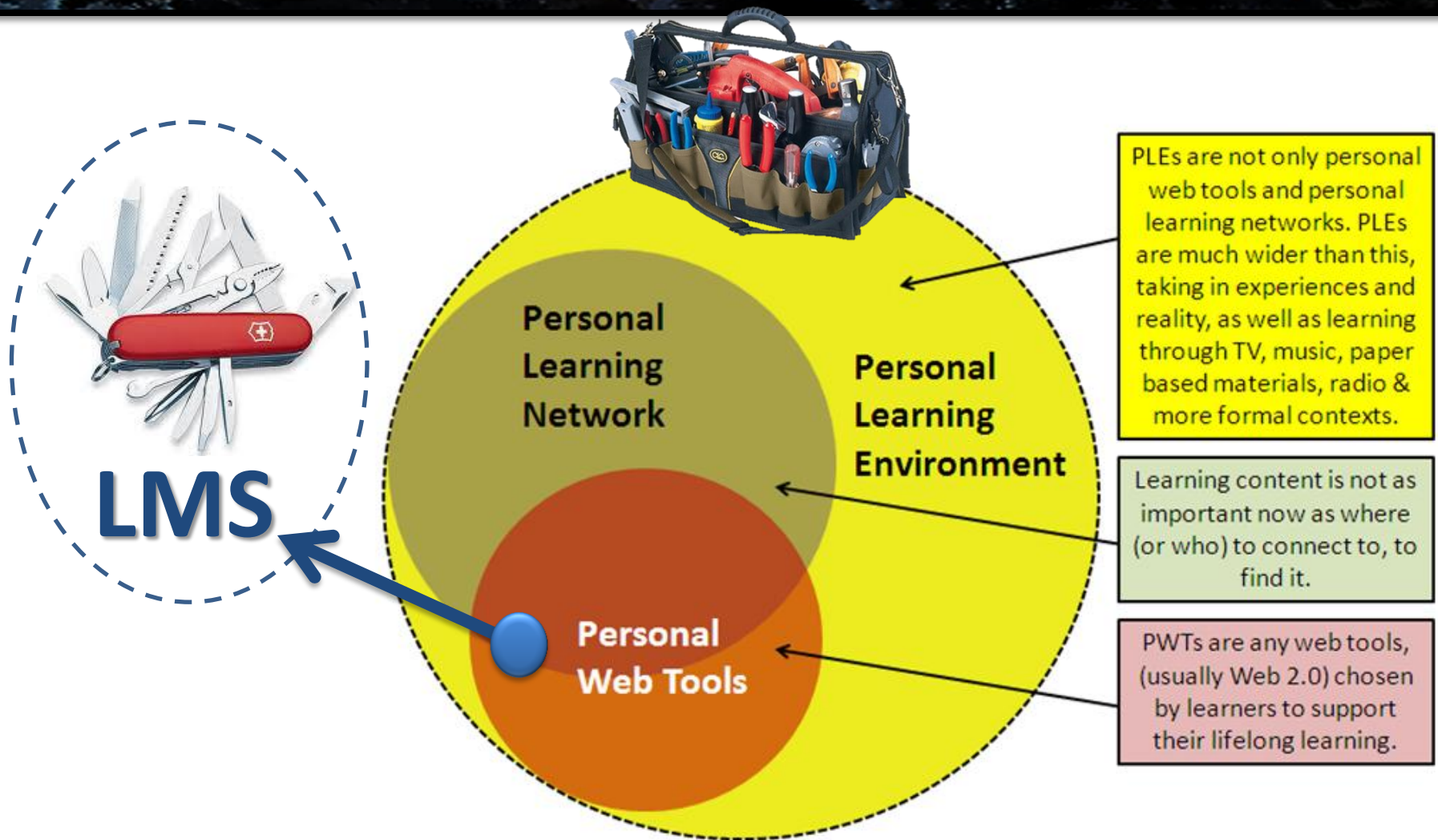
Created by Dr. Mariale M. Hardiman

Minutes of class time

Source: www.brainrules.net/attention

Learning designed to **stimulate the Brain** and maximize your potential.

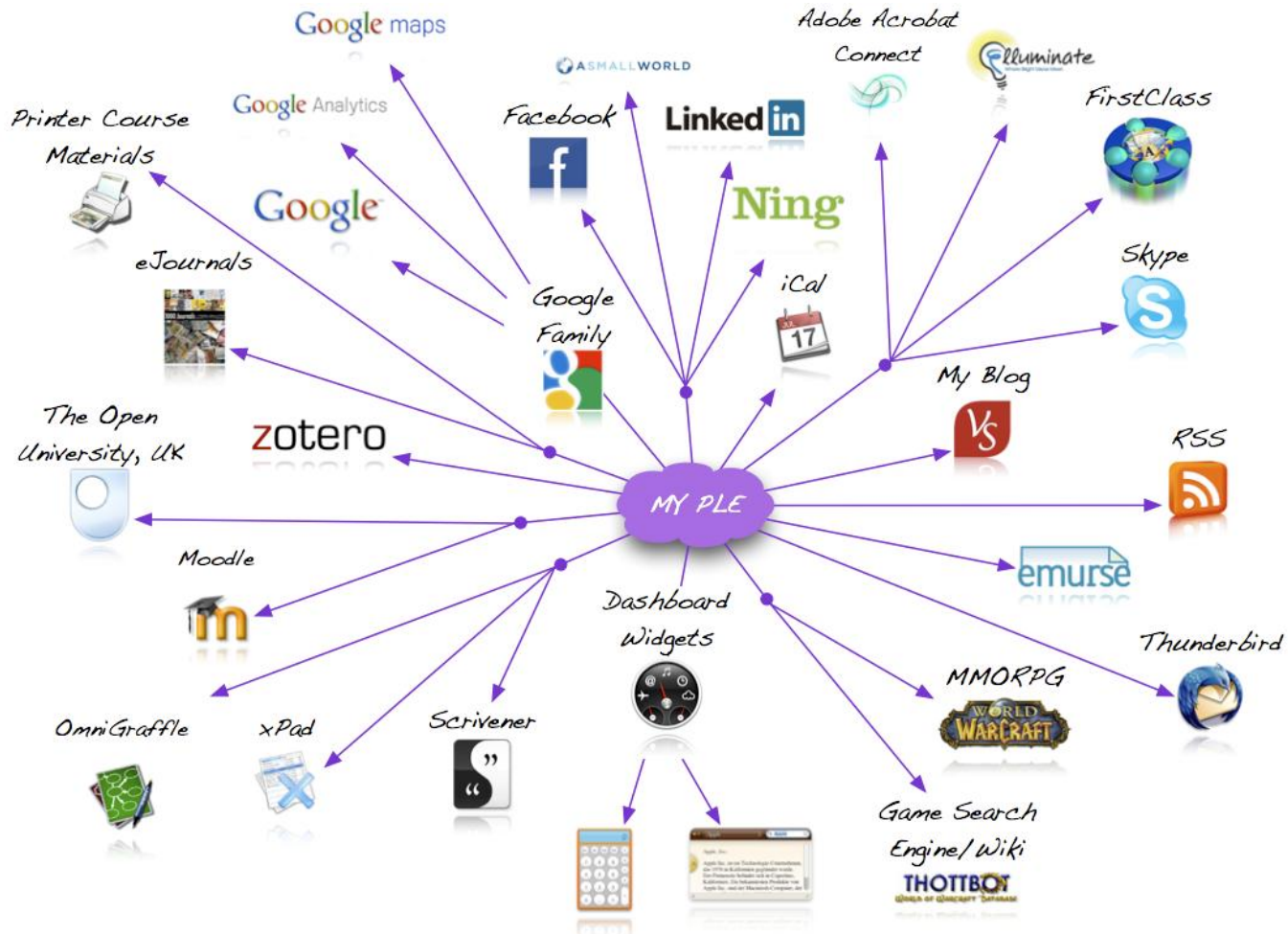
Build Personal Learning Environments!



Remixed version from: <http://steve-wheeler.blogspot.com/2010/07/anatomy-of-ple.html>



PLE Example



A collection of PLEs: <http://edtechpost.wikispaces.com/PLE+Diagrams>

Use Social/Intelligent Curation Tools to...



Make sense of *information overload* in our learning domains and beyond.

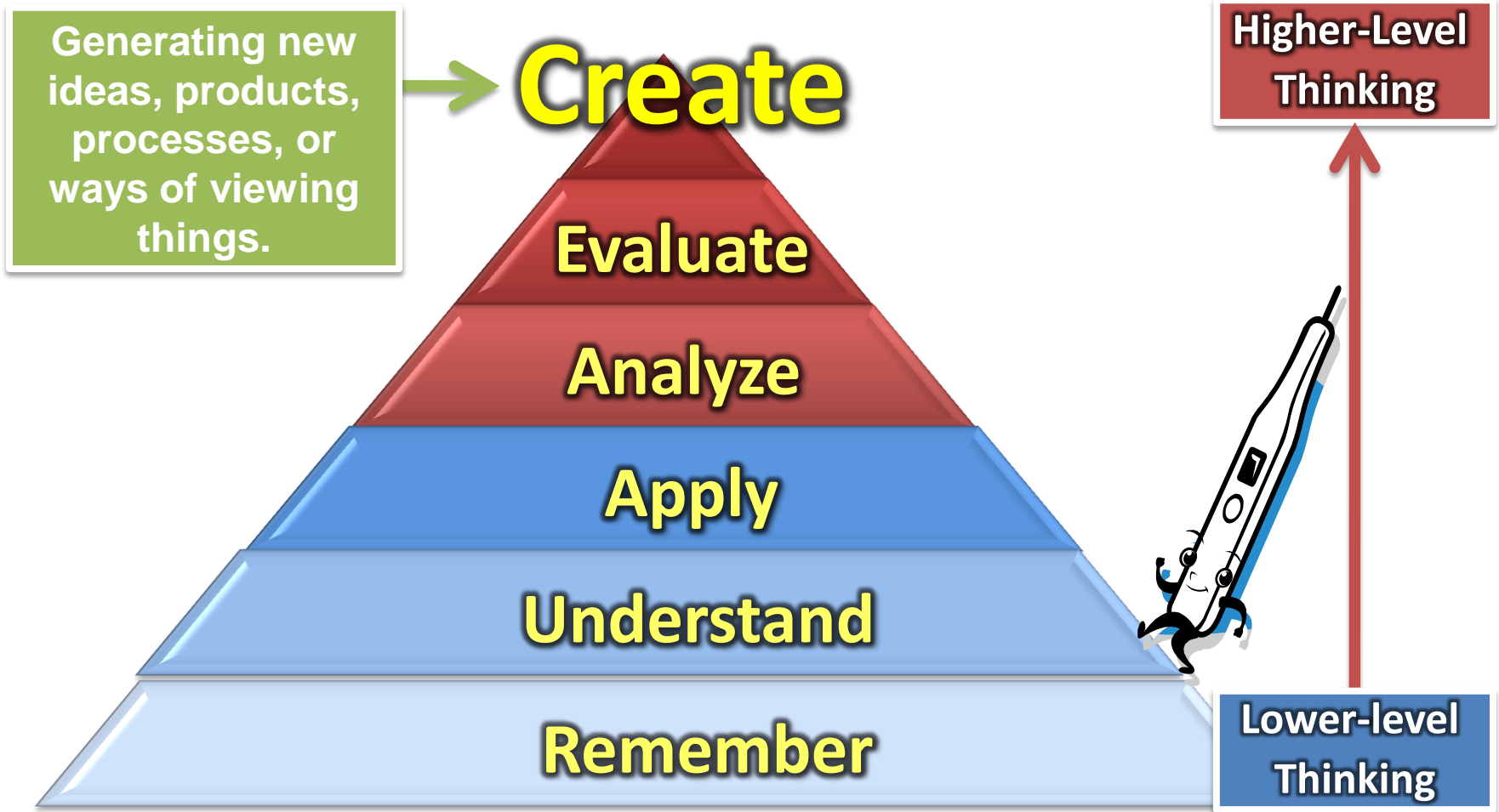
<http://zaidlearn.blogspot.com/2011/01/buzzing-with-social-curation-tools.html>



3

DESIGN

Design to Empower Innovation!



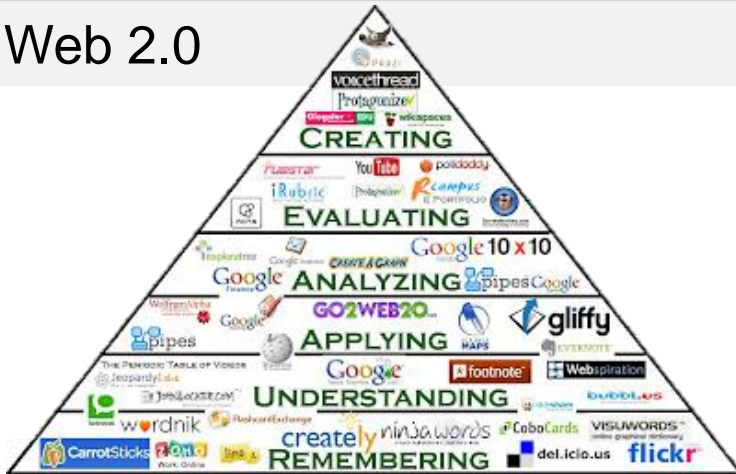
The Revised Bloom's Taxonomy

<http://edorigami.wikispaces.com/Bloom%27s+Digital+Taxonomy>



Bloom's Digital Taxonomies!

Web 2.0



iPAD



Google



MORE

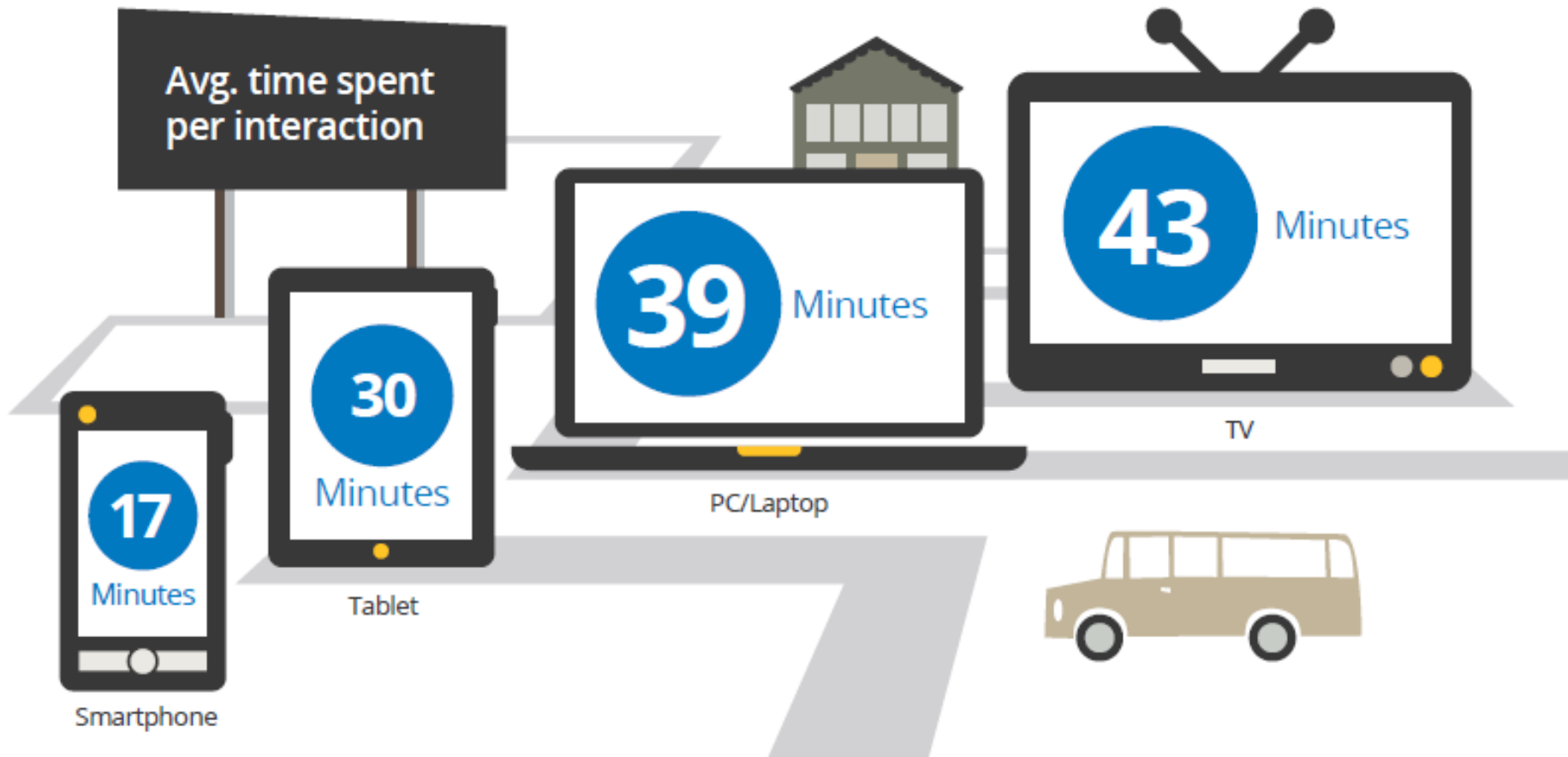
Android



<http://zaidlearn.blogspot.com/2012/10/a-juicy-collection-of-blooms-digital.html>



Our time online is spread between 4 primary media devices



Source (Slide 9): http://services.google.com/fh/files/misc/multiscreenworld_final.pdf

Embrace Multi-Device Learning!

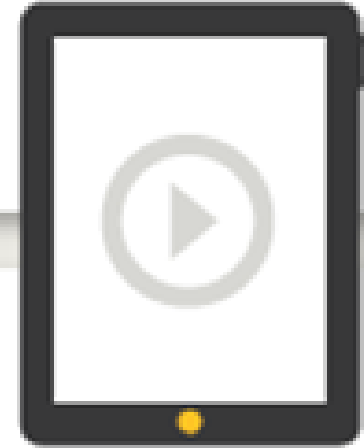
Bring Your Own Devices (BYODs)



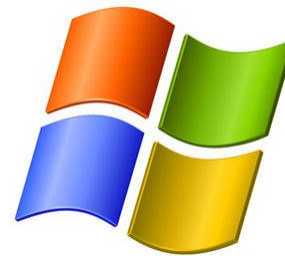
Smartphone



Laptop/PC



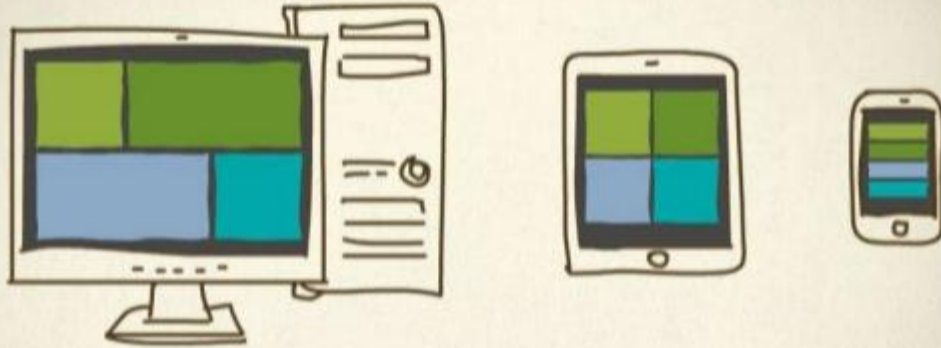
Tablet



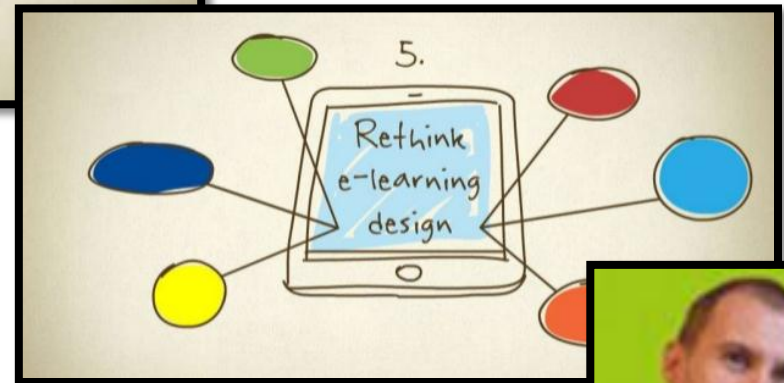
Inspired by: <http://www.slideshare.net/steverayson/kineo-responsive-elearning>



Rethink (Responsive) e-Learning Design!



the ideal solution: a single version that works on all devices



Steve Rayson

Source: <http://www.slideshare.net/steverayson/elearning-insig>



Build e-Learning Content Rapidly &...



Continuously update them!



Co-Creates Interactive e-Books with...



.docstoc

Scribd.

issuu™



my **ebook**
get it out there

simplebooklet

 **YUDU**®

 **youblisher**

Students!

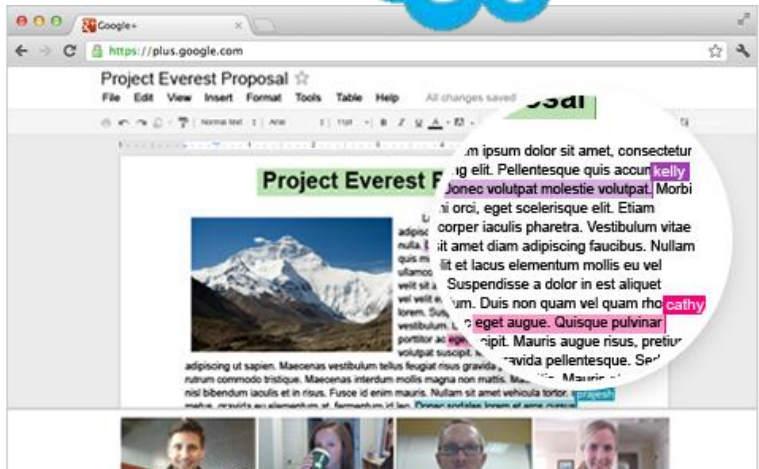




Interacts & Collaborates Online (Live) Using...



I will coach you!
Admit, Reflect,
Practice, Feedback
Reflect, Practice...

Too Loud! Too fast!
Too much me, myself
and I! Annoying!



Project Everest Proposal

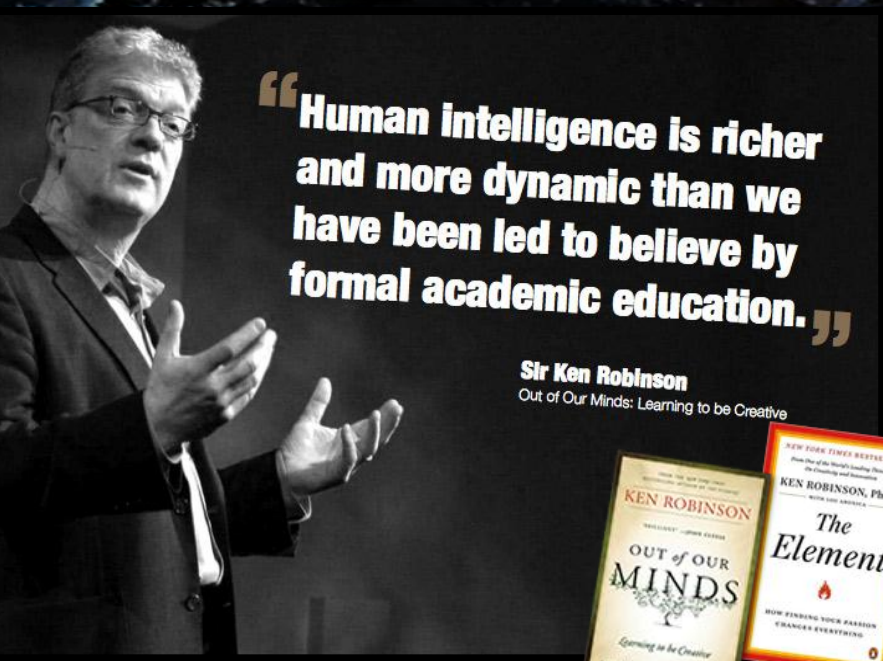
Project Everest F...
... ipsum dolor sit amet, consectetur
... elit. Pellentesque quis accu...
... Jones volutpat molestie volutpat. Morbi
... ni orci, eget scelerisque elit. Etiam
... corper iaculis pharetra. Vestibulum vitae
... it amet diam adipiscing faucibus. Nullam
... lit et lacus elementum mollis eu vel
... Suspensidisse a dolor in est aliquet
... um. Duis non quam vel quam rho...
... eget augue. Quisque pulvinar
... ripit. Mauris augue nisis, pretiur
... volutpat suscipit. ...
... avida pellentesque. Se...



IMU Webinar Series (example): <http://imuelearning.blogspot.com/p/imu-learning-webinar-series-2012.html>

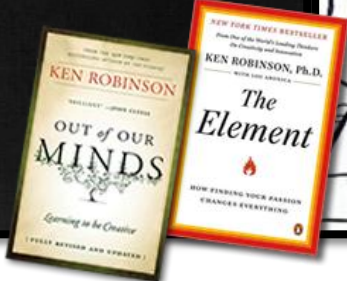


Infuse Creativity & STORIFY Learning!



“Human intelligence is richer and more dynamic than we have been led to believe by formal academic education.”

Sir Ken Robinson
Out of Our Minds: Learning to be Creative



“**BULLETS** stick for exams,
STORIES stick for life”
– Zaid Ali Alsagoff!

“If you're not prepared to be wrong, you'll never come up with anything original.”



<http://sirkenrobinson.com/skr/watch>



Practical, real-world
tips for e-learning
success!

-TOM

The Rapid E-Learning Blog

21st Century Educators

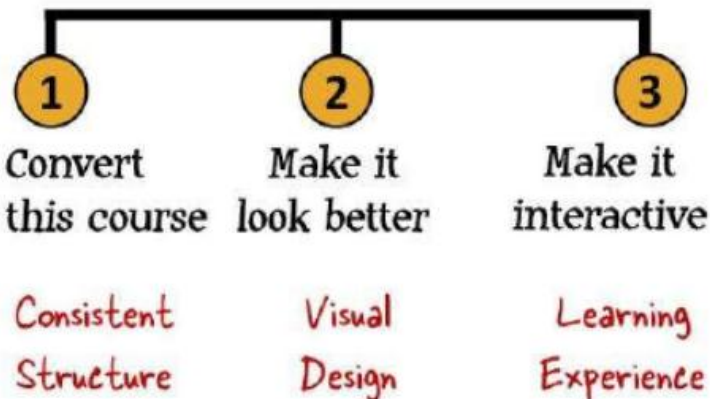
SIMPLIFY COMPLEXITY



into engaging learning experiences...

(Re)Using:

- Open Educational Resources*
- Rapid e-Learning Tools*
- Social Media*



<http://zaidlearn.blogspot.com/2012/01/imu-ls-03-how-to-become-rapid-e.html>



4

EMPOWER

Today's Students?

Always on Facebook!

Googling is Thinking!

Disengaged!

Demotivated!

Sleeping in Class!

No Time to Study!

No Patience!

Expects us to Reply in a Nanosecond!

STUDENTS



Purpose of a Lecture?

Lectures should be:

- L**ively
- E**ducative
- C**reative
- T**hought (provoking)
- U**nderstandable
- R**elevant
- E**njoyable

- I**nspire
- I**nfluence
- I**nform



<http://zaidlearn.blogspot.com/2010/06/vanishing-art-of-lecturing-prof-k.html>

How Long Does MIT Professor Walter Lewin...

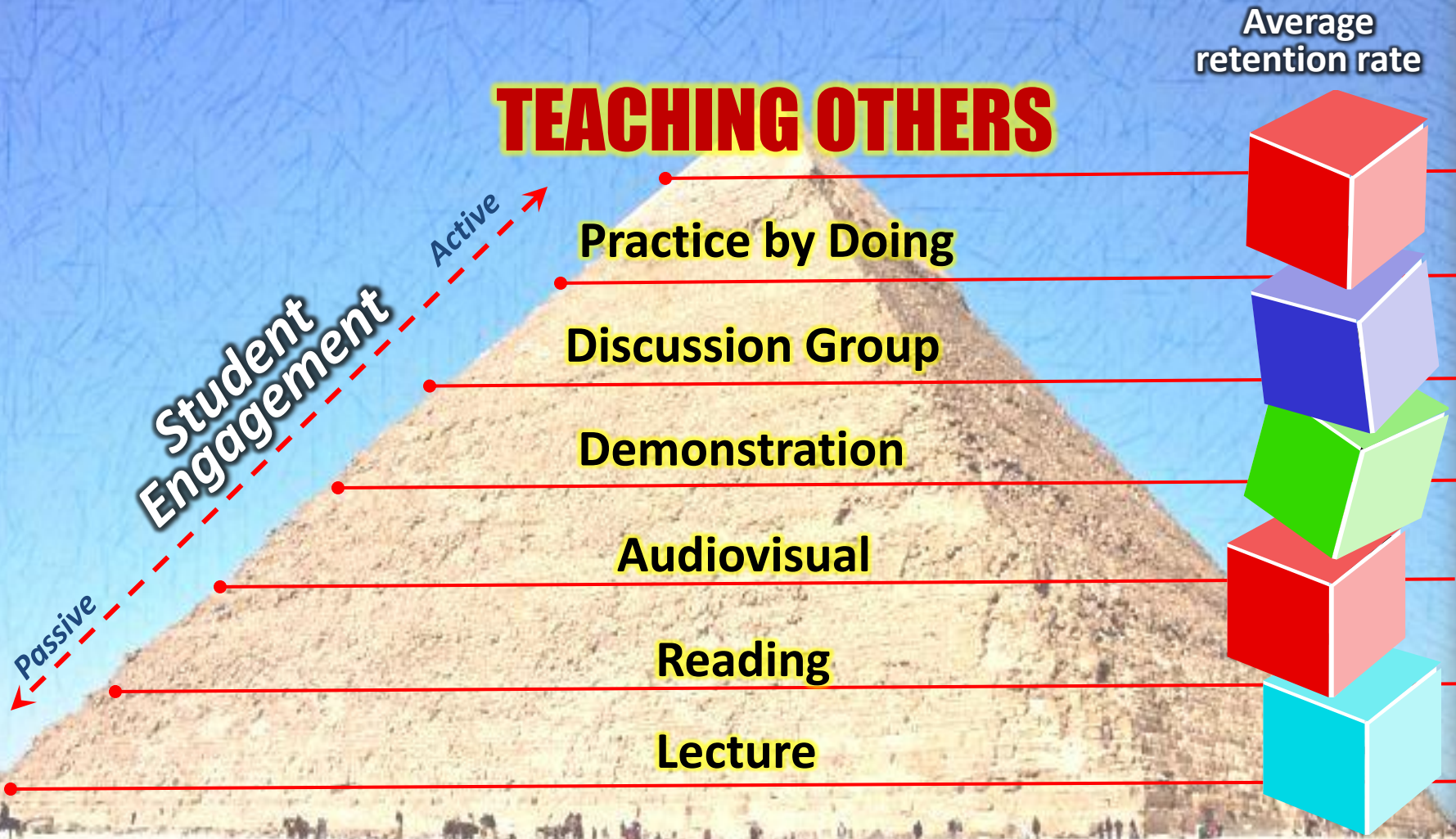
Take to Prepare one Lecture?



<http://youtu.be/97oTDANuZco>

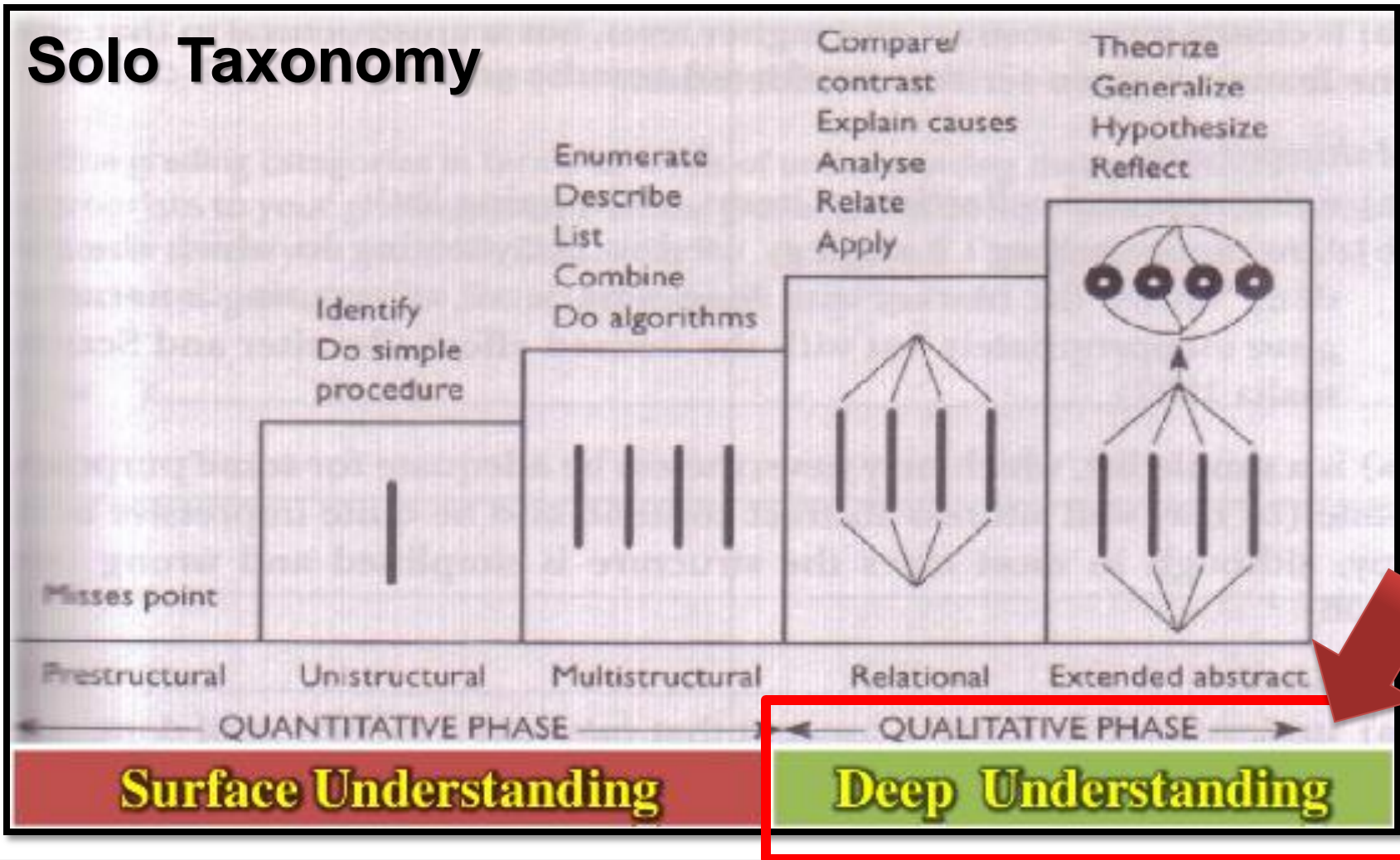


Engage Students to Learn!



Inspire Deeper Questions to Infuse...

Solo Taxonomy



Construct Learning Spaces that...

Inspire students to connect, collaborate, think and learn!

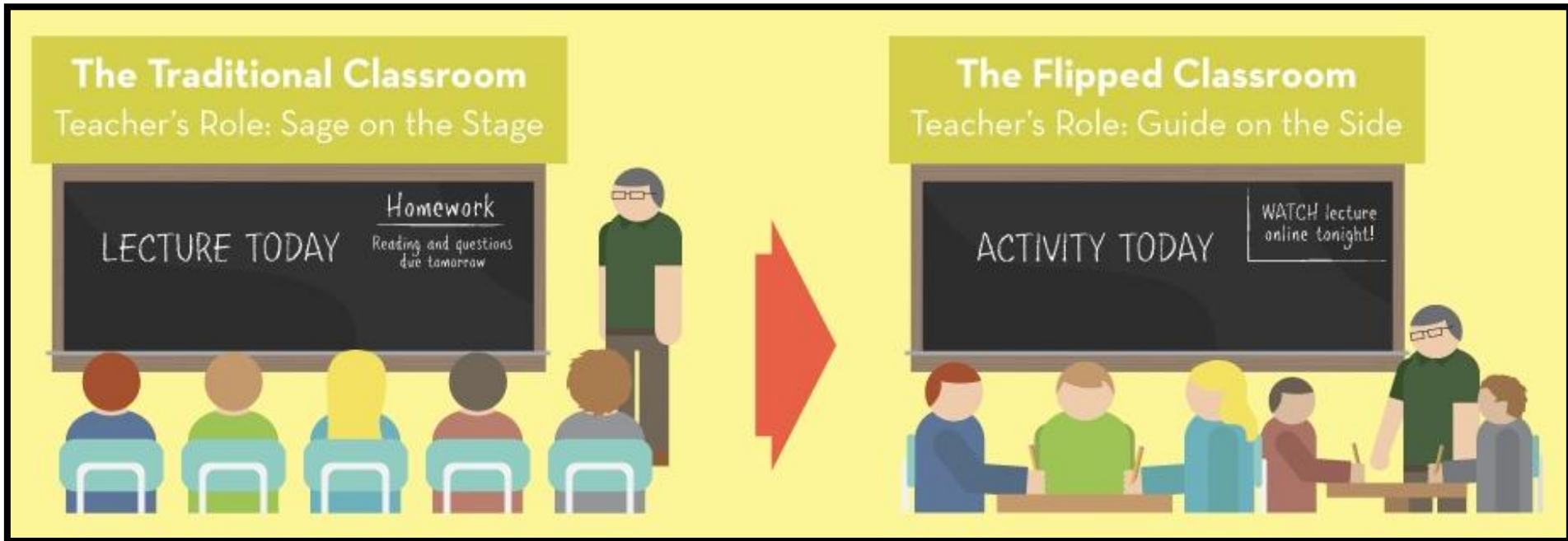


<http://www.educause.edu/research-and-publications/books/learning-spaces>



RETHINK Classroom Learning!

FLIPPED CLASSROOM



Infographic: <http://www.knewton.com/flipped-classroom/>

Introduction Video: http://youtu.be/26pxh_qMppE



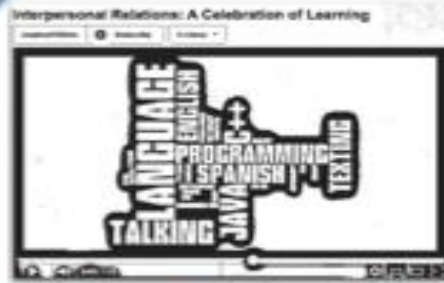
Now What

Experience

Creative, Personalized Projects Presentations

Games, Simulations Interactives

Experiments



Community Project

Arts Activities

Demonstration & Application

Experiential Engagement

Flipped Classroom Model for Higher Education

Meaning Making

Concept Exploration

Blogging

Reflective Podcasts



Reflective Vodcasts



Content-Rich Websites

Video Lectures

Audio Lectures

What

So What

Tests

Online Chats



Jackie Gerstein

Engage Students via Mobile Devices!



InfuseLearning



Poll Everywhere



socrative



A screenshot of the InfuseLearning web interface. On the left is a navigation menu with categories: INTERACTIVE TOOLS (InfuseDraw, InfuseLink), QUIZ MANAGEMENT (My Quizzes, Quiz Results), CLASS SETUP (Classes/Students, Connected Students), and SYSTEM UTILITIES (Preferences, Infuse Community, Log Off). The main content area shows a 'Start Class/Attendance' button and a 'QUICK ASSESSMENT' section with options: Draw Response, True/False, Multiple Choice, Sort & Order, Open Ended Text Answer, Numeric, and Likert Scale (1-5). A note at the bottom states '* optimized for iOS, Android and desktop/laptop computers.'

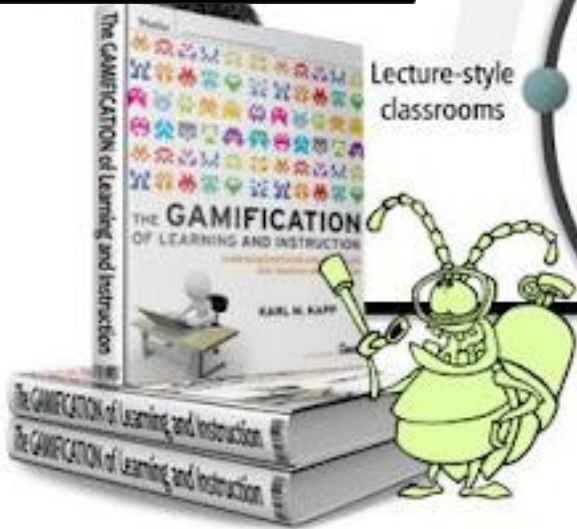


Student Response Systems (SRS) that empower teachers to engage their students via smartphones, laptops, and tablets.

<http://zaidlearn.blogspot.com/2013/01/the-ipad-for-learning-teaching-workshop.html>



Gamify Learning to...



GAMIFY TO AMPLIFY THE LEARNING EXPERIENCE!

<http://zaidlearn.blogspot.com/2012/09/from-flipped-to-gamified-classroom.html>



Use Augmented Reality to ...



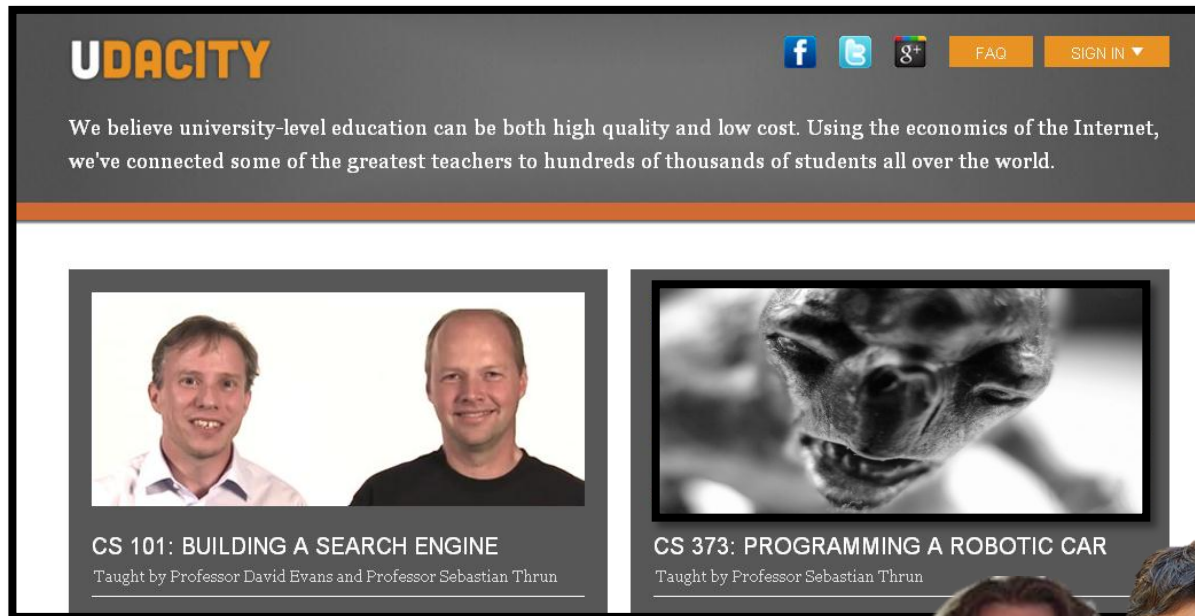
Connect the physical and digital worlds!

<http://pinterest.com/twahlert/augmented-reality-in-education/>



Always Explore New Ways to Learn!


Massive Open Online Courses (MOOCs)




UDACITY

[f](#) [t](#) [g+](#) [FAQ](#) [SIGN IN ▾](#)

We believe university-level education can be both high quality and low cost. Using the economics of the Internet, we've connected some of the greatest teachers to hundreds of thousands of students all over the world.



CS 101: BUILDING A SEARCH ENGINE
Taught by Professor David Evans and Professor Sebastian Thrun



CS 373: PROGRAMMING A ROBOTIC CAR
Taught by Professor Sebastian Thrun



A type of online course aimed at *large-scale participation* and *open access* via the web.

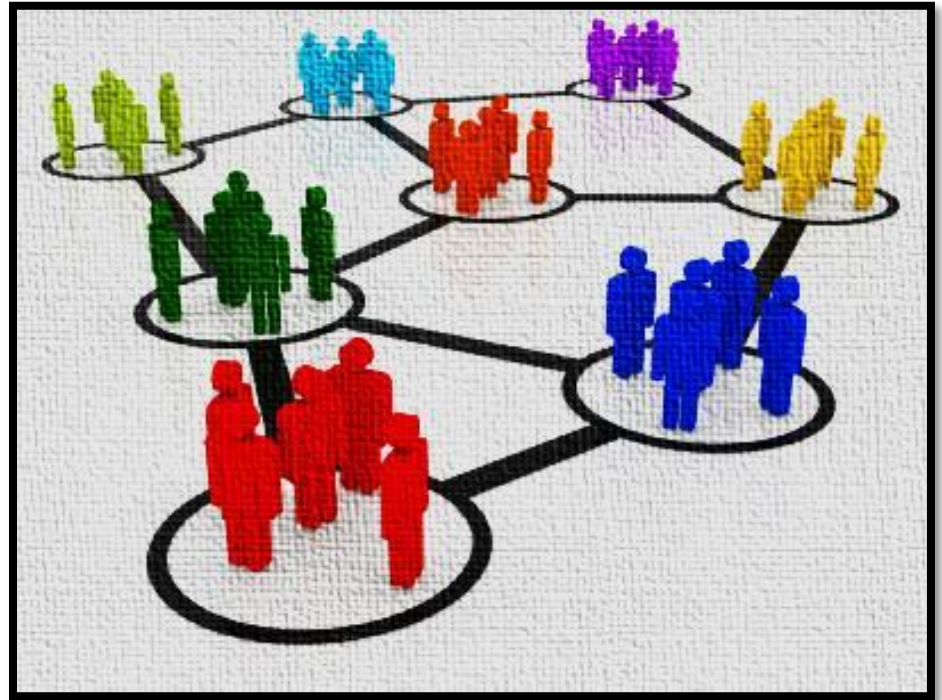


5

ASSESS

21st Century Educators Don't Say...

Hand It In!



They say, **Publish It!**

<http://theinnovativeeducator.blogspot.com/2009/11/21st-century-educators-dont-say-hand-it.html>



Example?

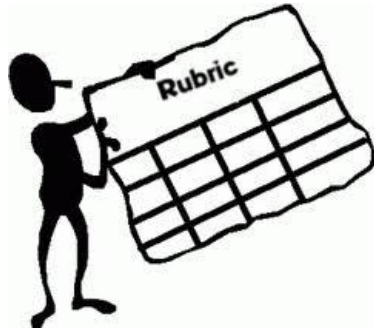
IMU Student Blogging Project to Promote a Healthy Lifestyle!



<http://zaidlearn.blogspot.com/2011/01/student-blogging-project-to-promote.html>



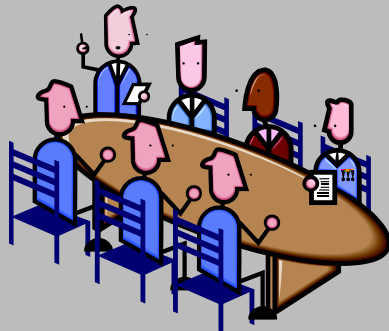
Use a Variety of Methods to...



Rubrics



E-Portfolio



Peer-Assessment



Learning Analytics

Assess more **AUTHENTIC LEARNING!**

<http://web.me.com/janherrington/AuthenticLearning/Home.html>

TIN CAN API



CONNECTING LEARNING EXPERIENCES

<http://tincanapi.com/>



6

REFLECT

21st Century Educators are Open Scholars!

The Open Scholar, as I'm defining this person, is not simply someone who agrees to allow free access and reuse of his or her traditional scholarly articles and books; no, the Open Scholar is someone who makes their intellectual projects and processes digitally visible and who invites and encourages ongoing criticism of their work and secondary uses of any or all parts of it--at any stage of its development.

Gideon Burton, www.academicrevolution.org

The screenshot shows a blog page with a header that reads "RANDOM Int'l politics Open access" and "Stuff THAT Matters" with sub-headers "China Asia", "TechSociety Culture", and "Libraries Int'l development". The main title is "Introduction: MIT courses and Chinese open courses". The text begins with "I start my MA thesis with the example of a Chinese open course which looks deceptively similar to an MIT OpenCourseWare course, or an OpenCourseWare course in Japan, or Israel." It continues with a paragraph: "In 2003, Massachusetts Institute of Technology (MIT) launched its OpenCourseWare website, which eventually came to contain online resources for virtually every course taught at the institution. This received much media attention, and gradually a number of other institutions joined in by publishing their own courses. In 2006, the OpenCourseWare Consortium was formed, and it became independent in 2007. The consortium members from 24 different countries use similar software and organizing principles for their materials. If you look at a course in Japan, or in Saudi Arabia, you are likely to find the same elements: a course outline, a reading list, lecture slides and in some cases lecture recordings, and sometimes sample exams, or samples of student work." The right sidebar includes a search bar, "Pages" (About me, Publications and presentations, Tools and hacks), a "P2PU" logo, "OPEN BLOGS", "Twitter" (@houshuang), and "Categories" (academia/research (1), africa (4), asia (30), books (18), canada (15)).

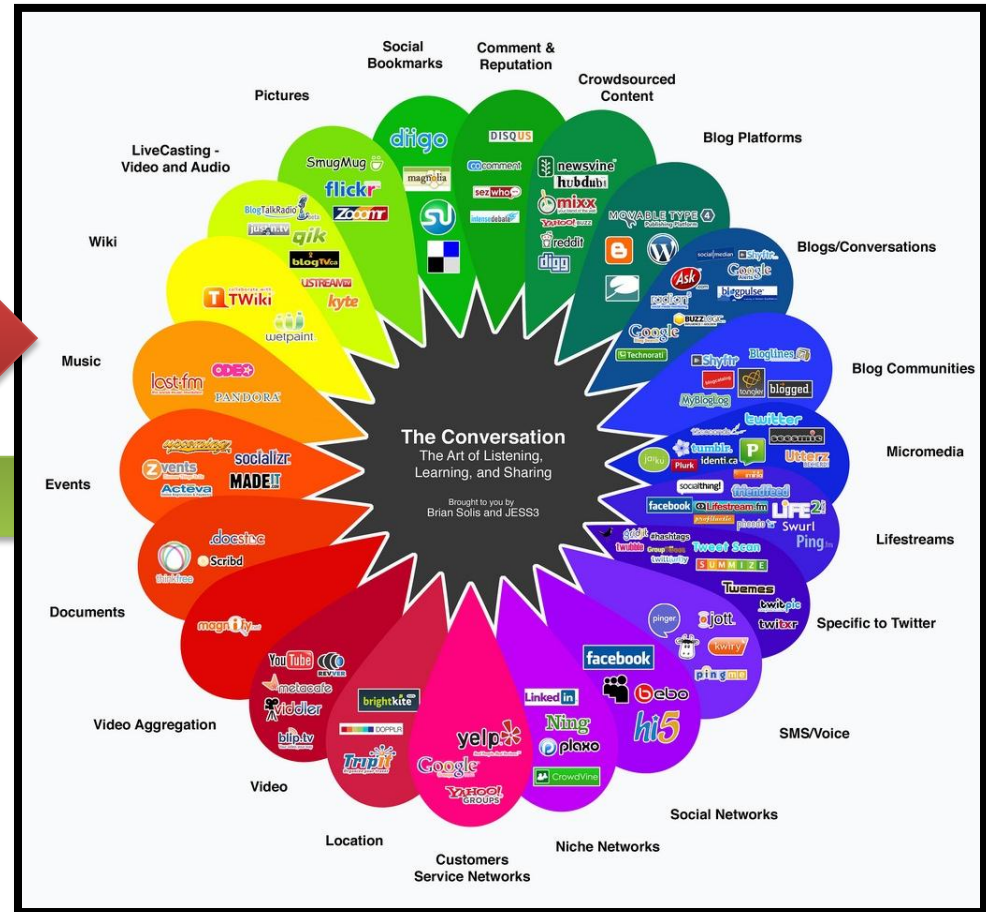
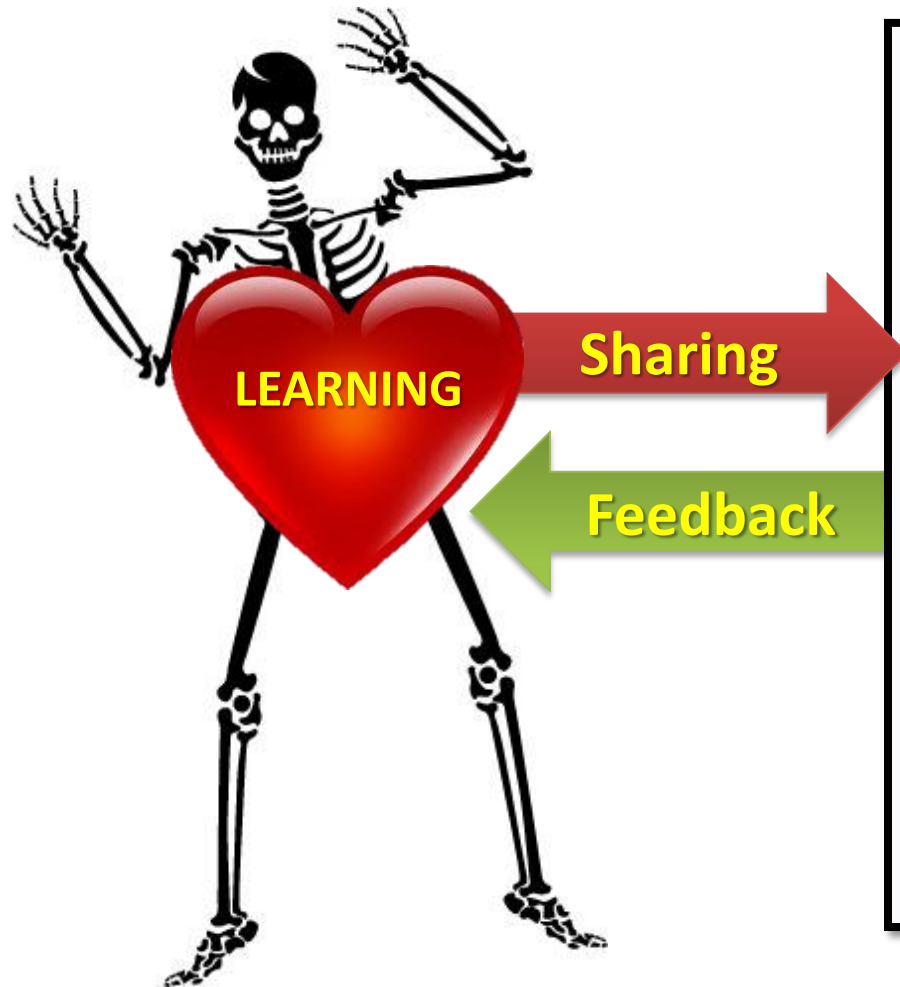


Stian Håklef

<http://www.slideshare.net/houshuang/what-it-means-to-be-an-open-scholar-and-the-future-of-scholarly-publishing>



Continuously Reflect their Learning & Teaching!



7

TRANSFORM

How can we use Technology to **TRANSFORM** Learning?



4



Frameworks

CA

Constructive Alignment



- John Biggs

<http://daimi.au.dk/~brabrand/short-film/>

SETT

S Student	
E Environment	
T Tasks	
T Tools	

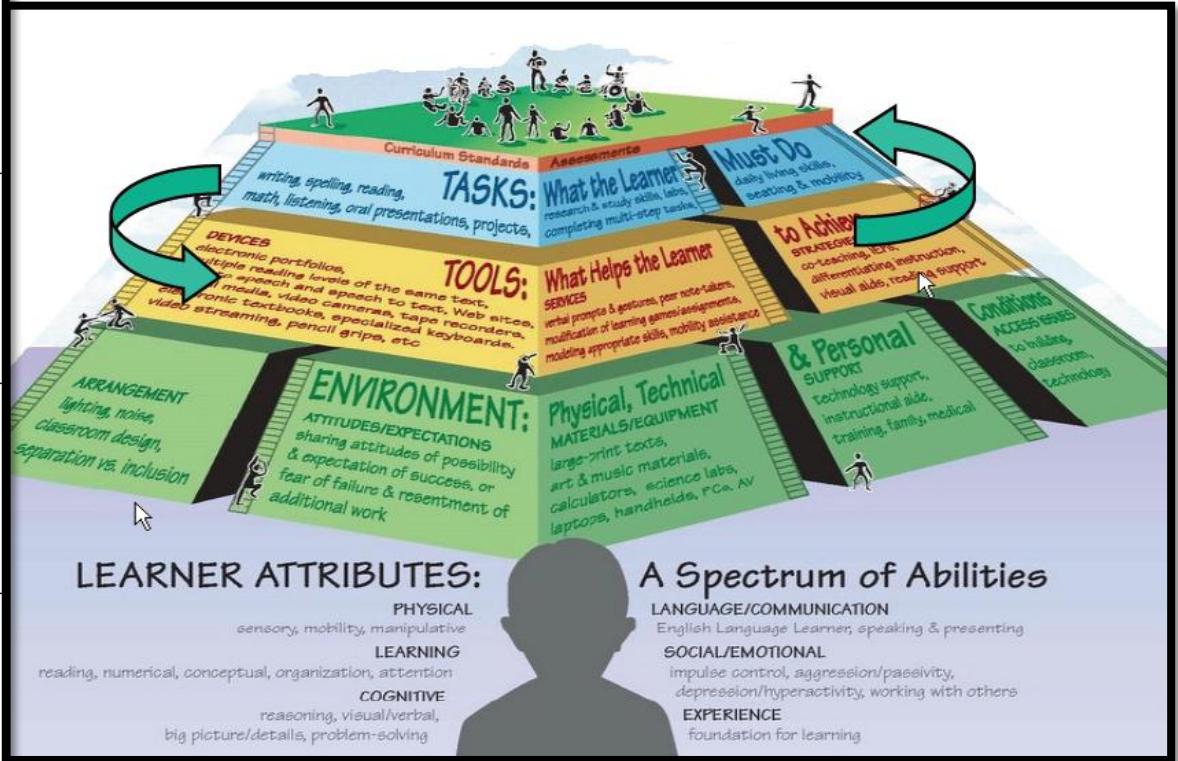
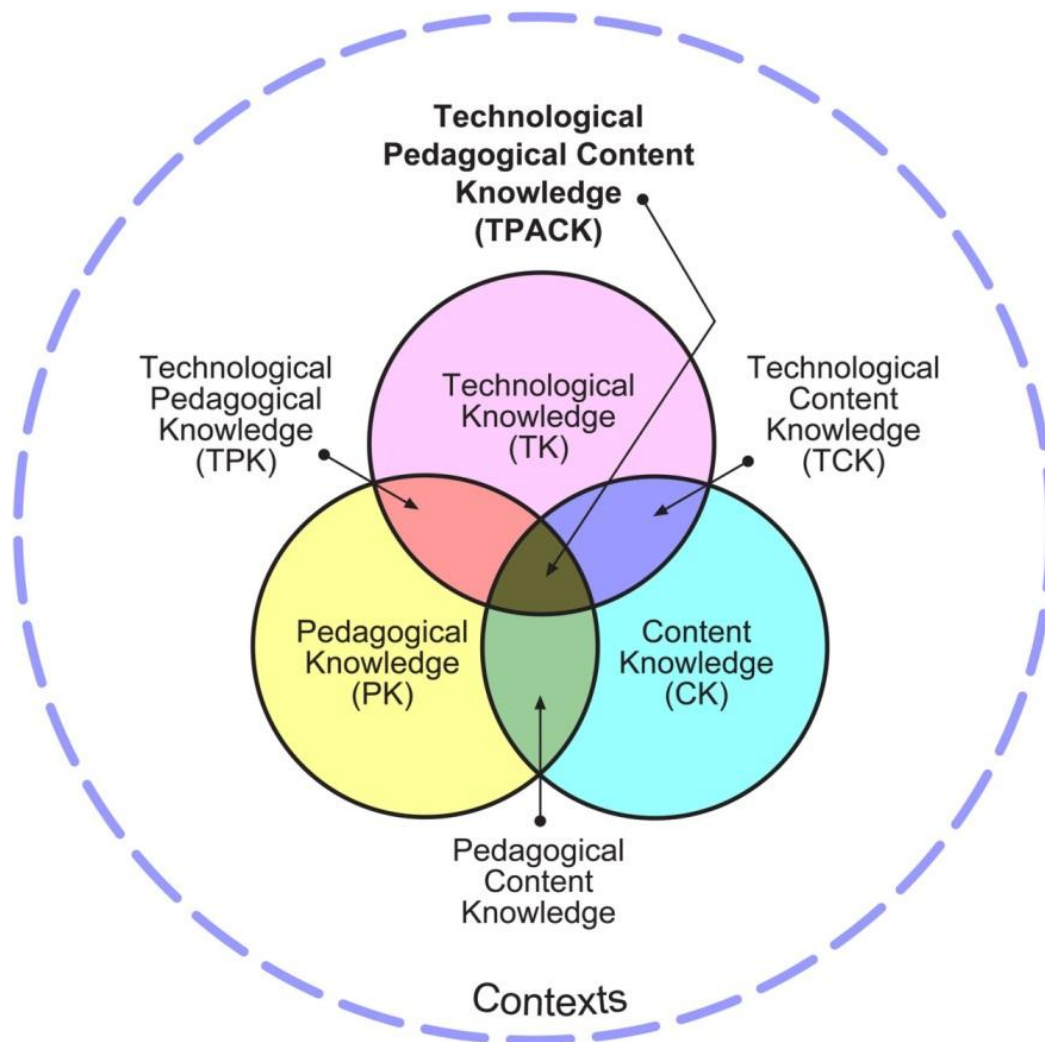


Image source (Slide 15): http://www.joyzabala.com/uploads/CA_Kananaskis_SETT_Horses_Mouth.pdf

- Joy Zabala

<http://www.joyzabala.com/>

TPACK



- Matthew Koehler & Punya Mishra

<http://tpack.org/>

SAMR

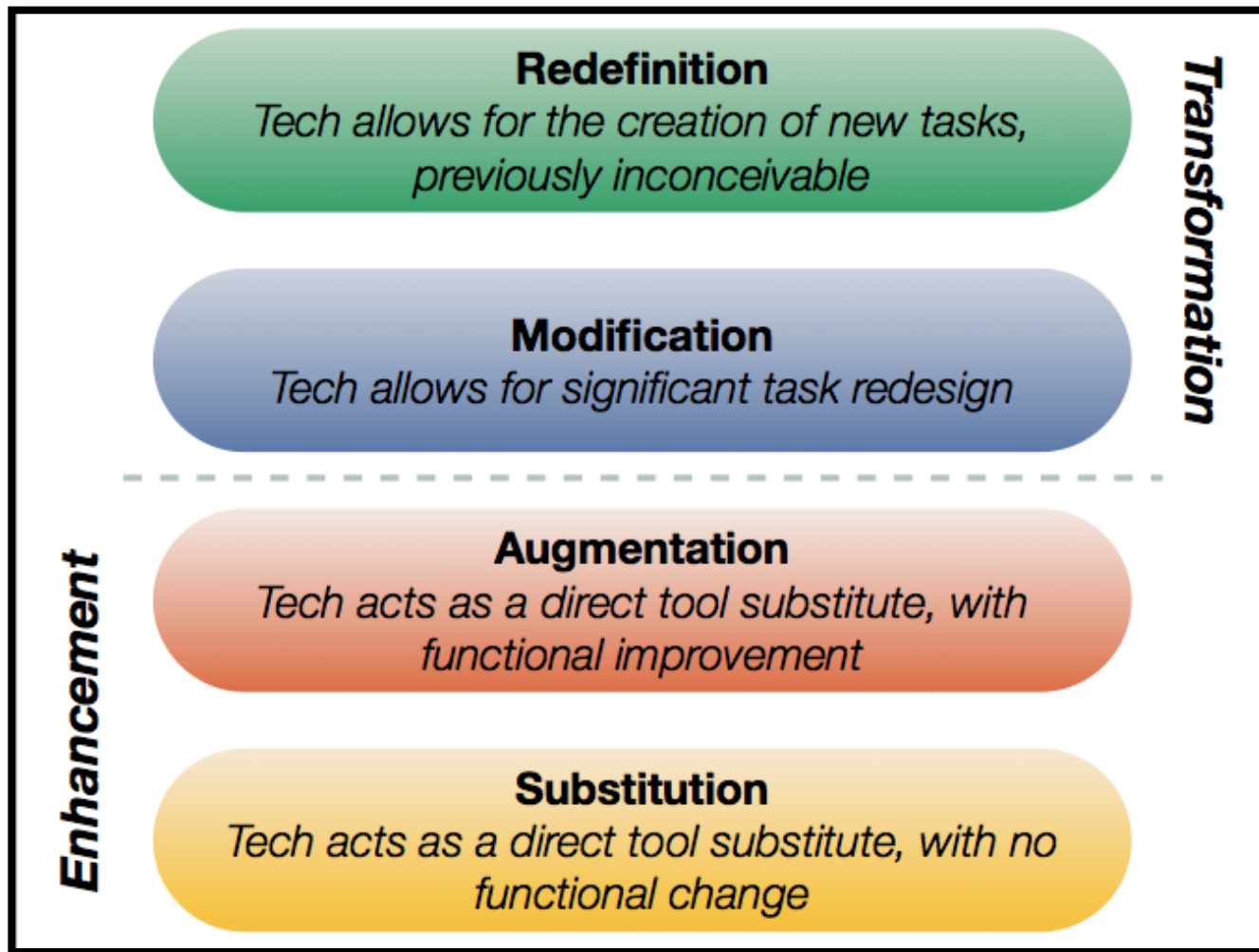


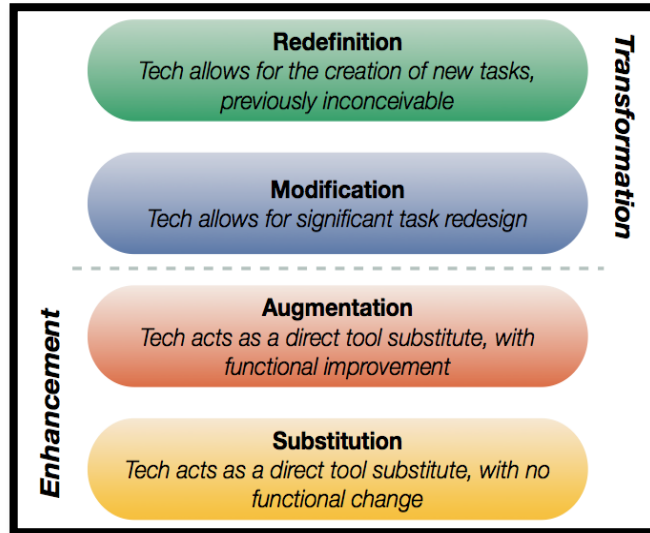
Image source: http://polareducationblog.ca/wp-content/uploads/2012/11/SAMR_model1.png

- **Ruben Puentedura**

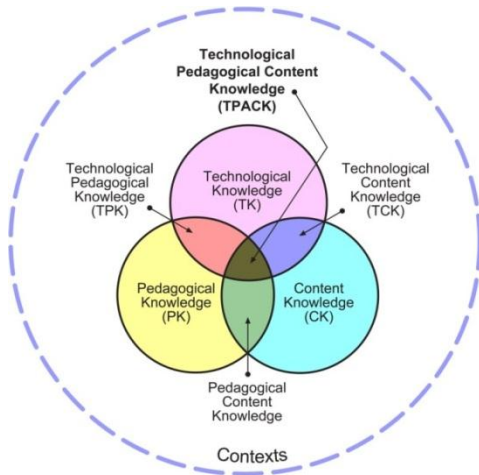


S Student	
E Environment	
T Tasks	
T Tools	

SETT



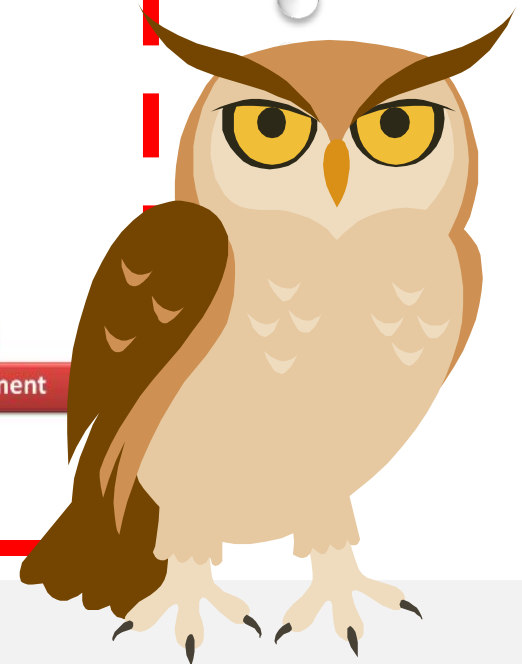
SAMR



TPACK



CA



RETHINKING

$$4^F + i =$$

L2T3SEA

L²T³SEA

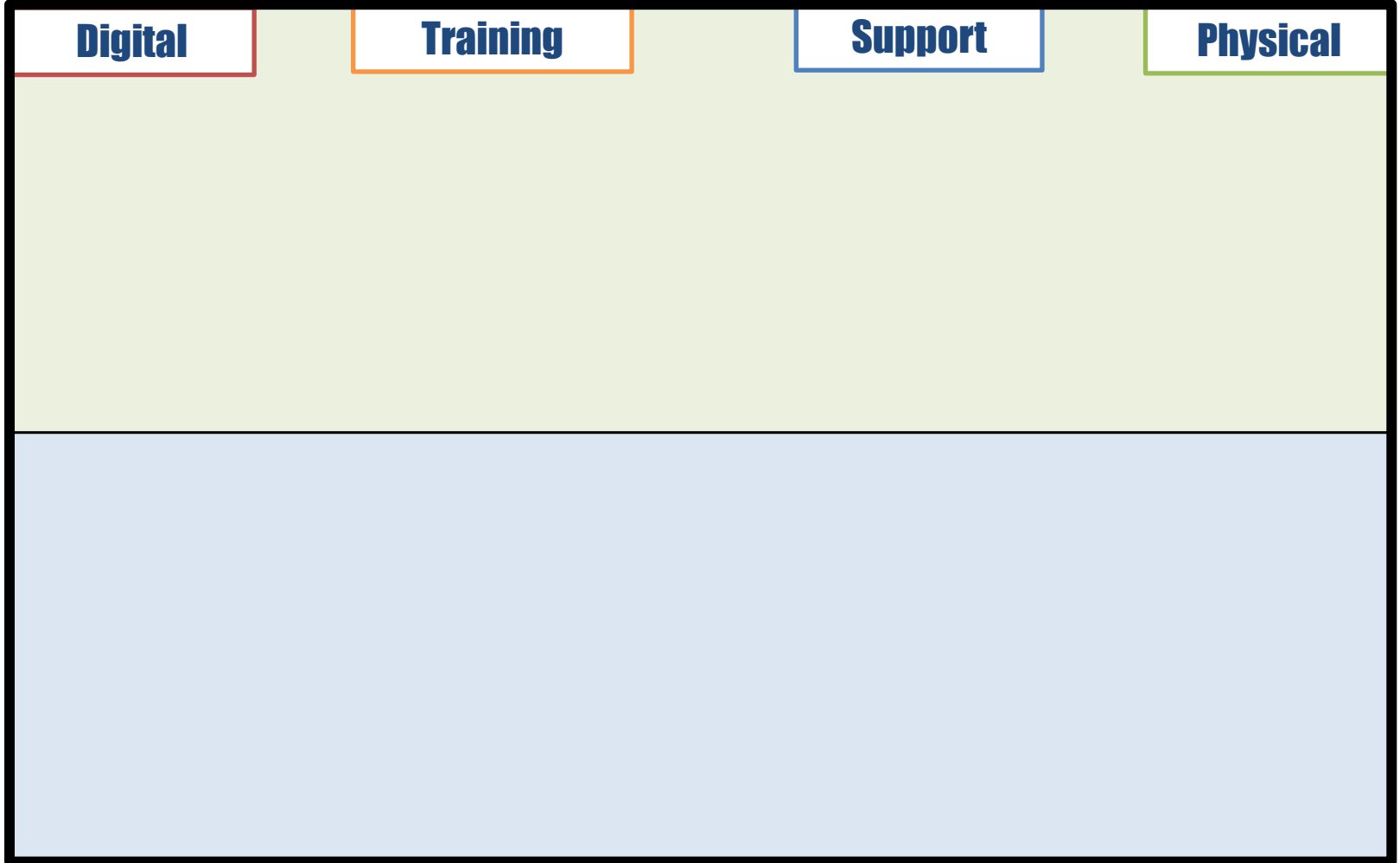
ENVIRONMENT

Digital

Training

Support

Physical



- Zaid Ali Alsagoff

L²T³SEA

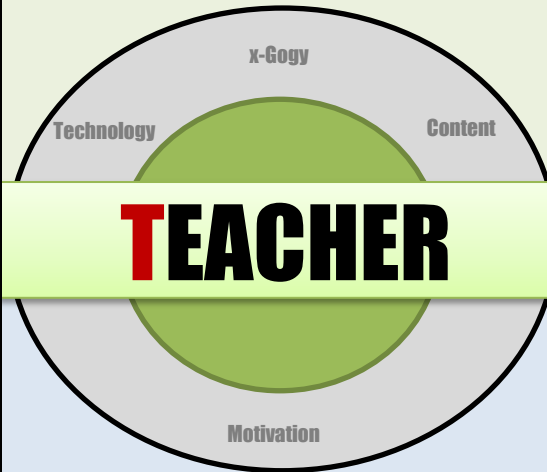
ENVIRONMENT

Digital

Training

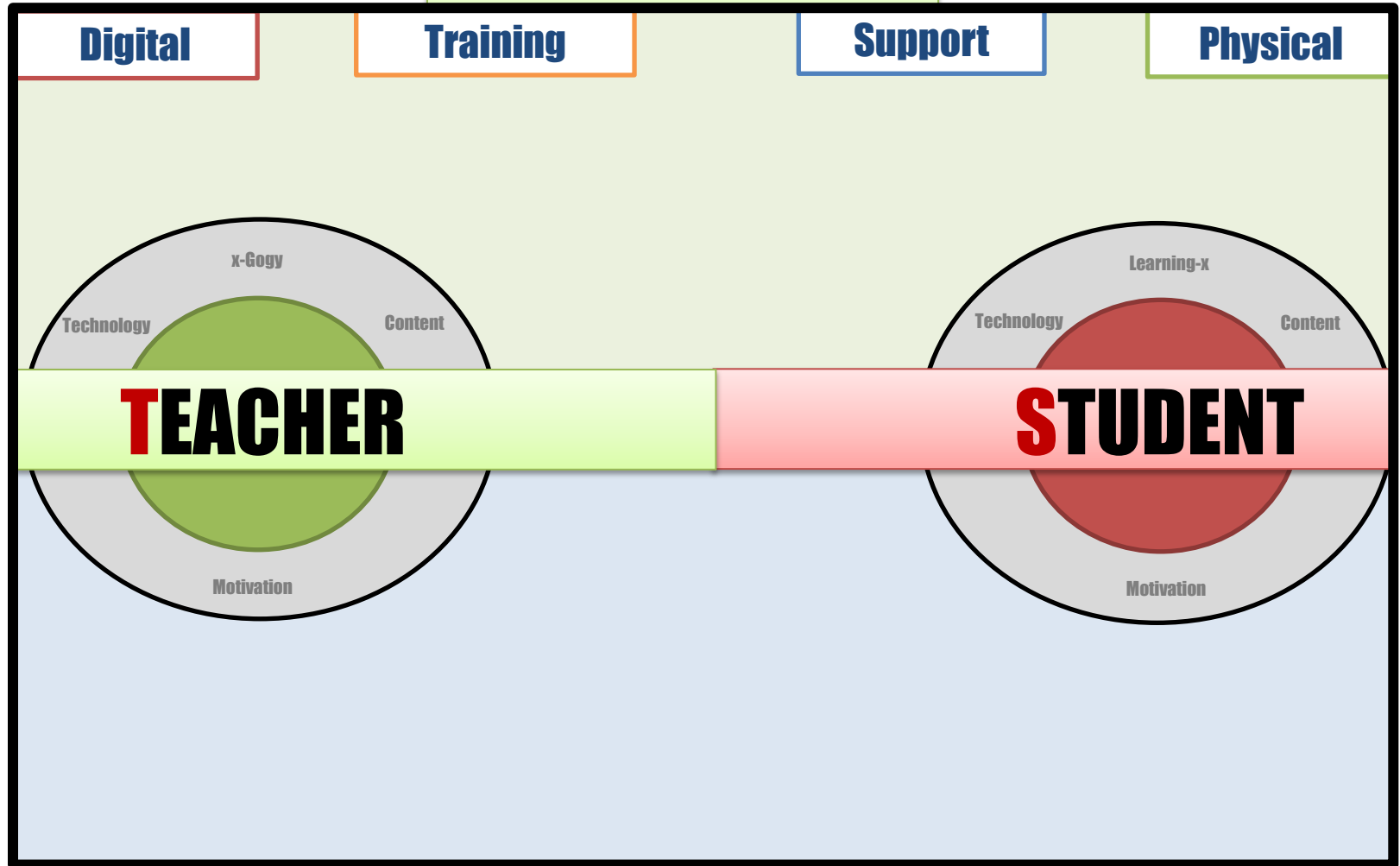
Support

Physical



L²T³SEA

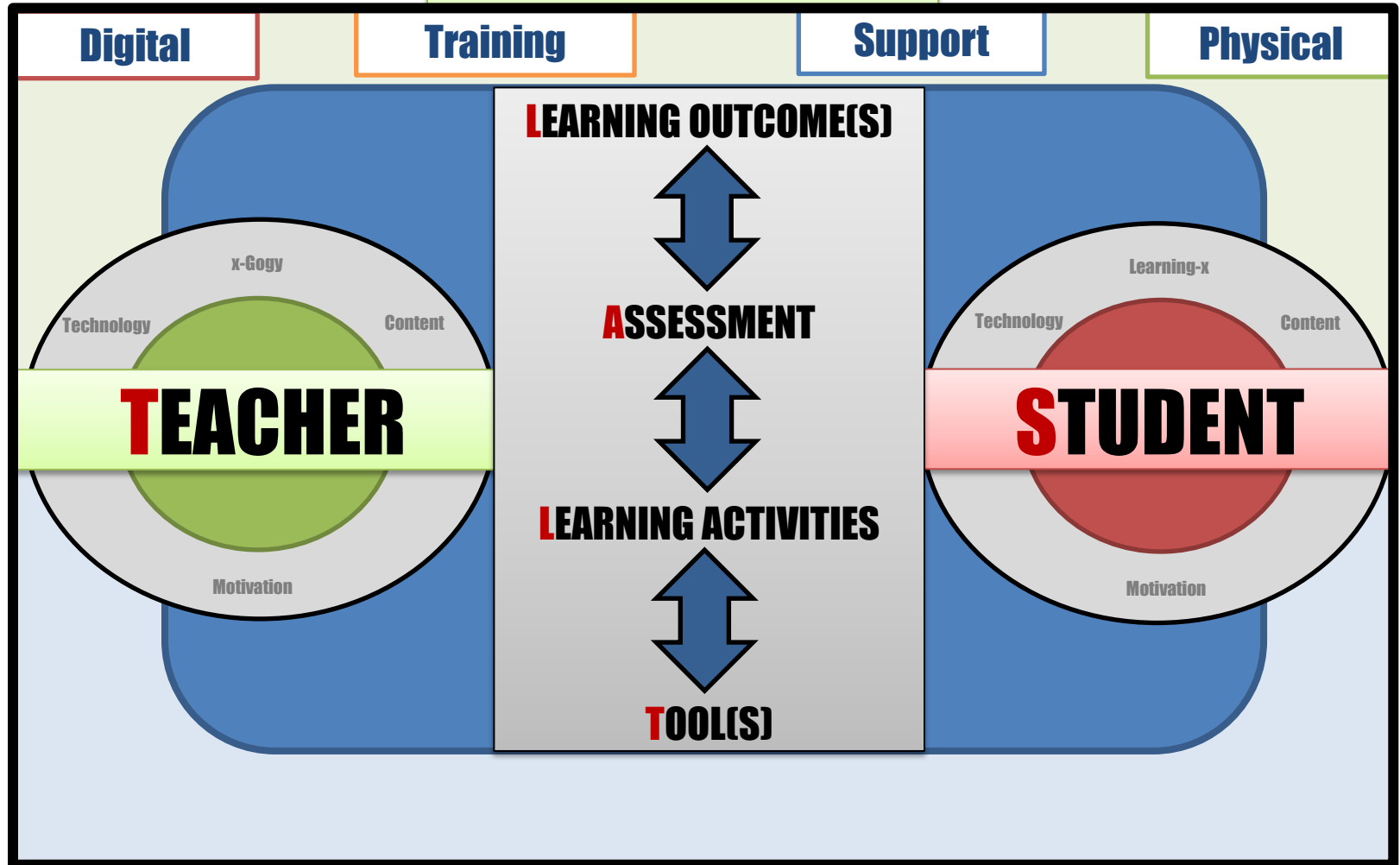
ENVIRONMENT



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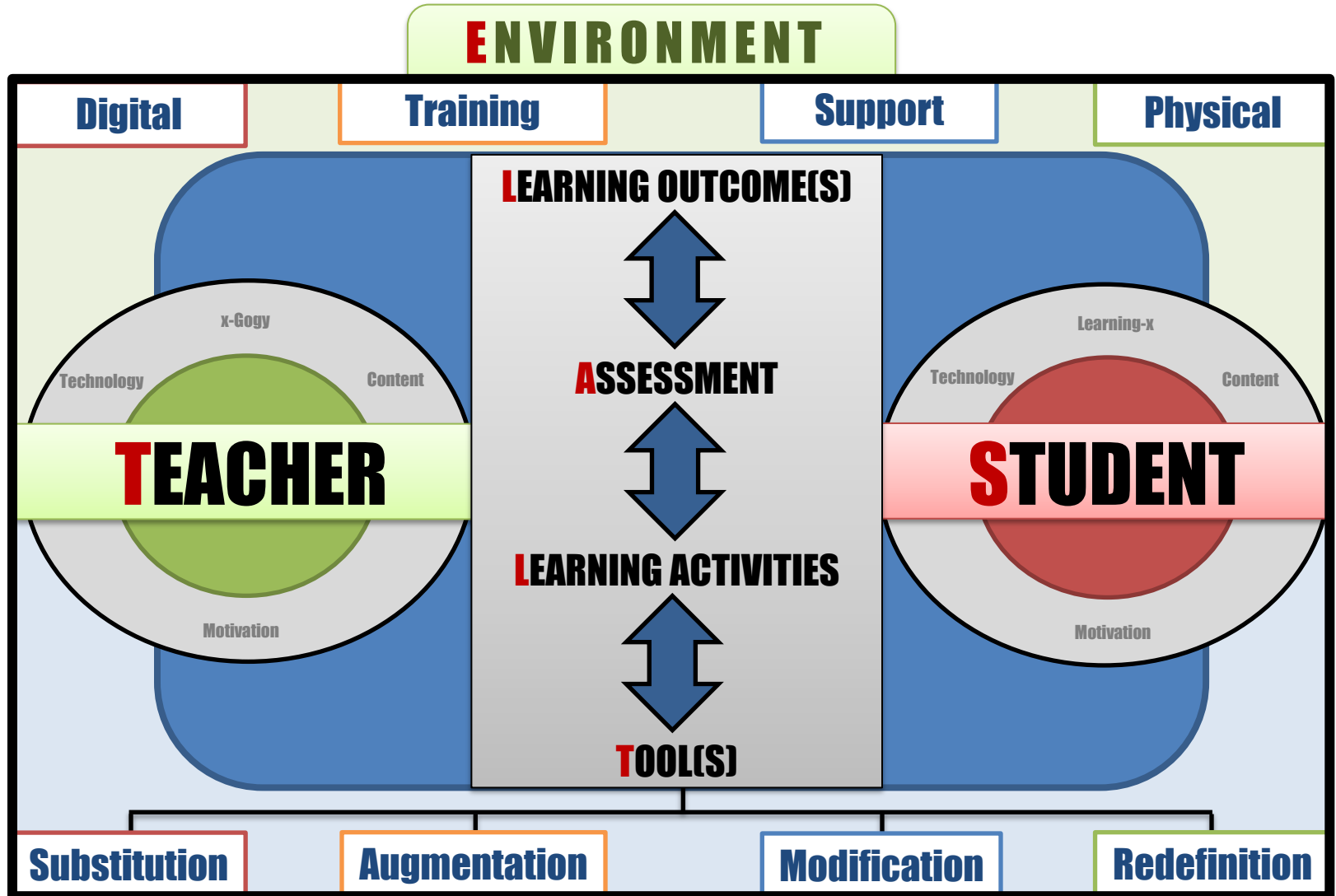
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ENVIRONMENT



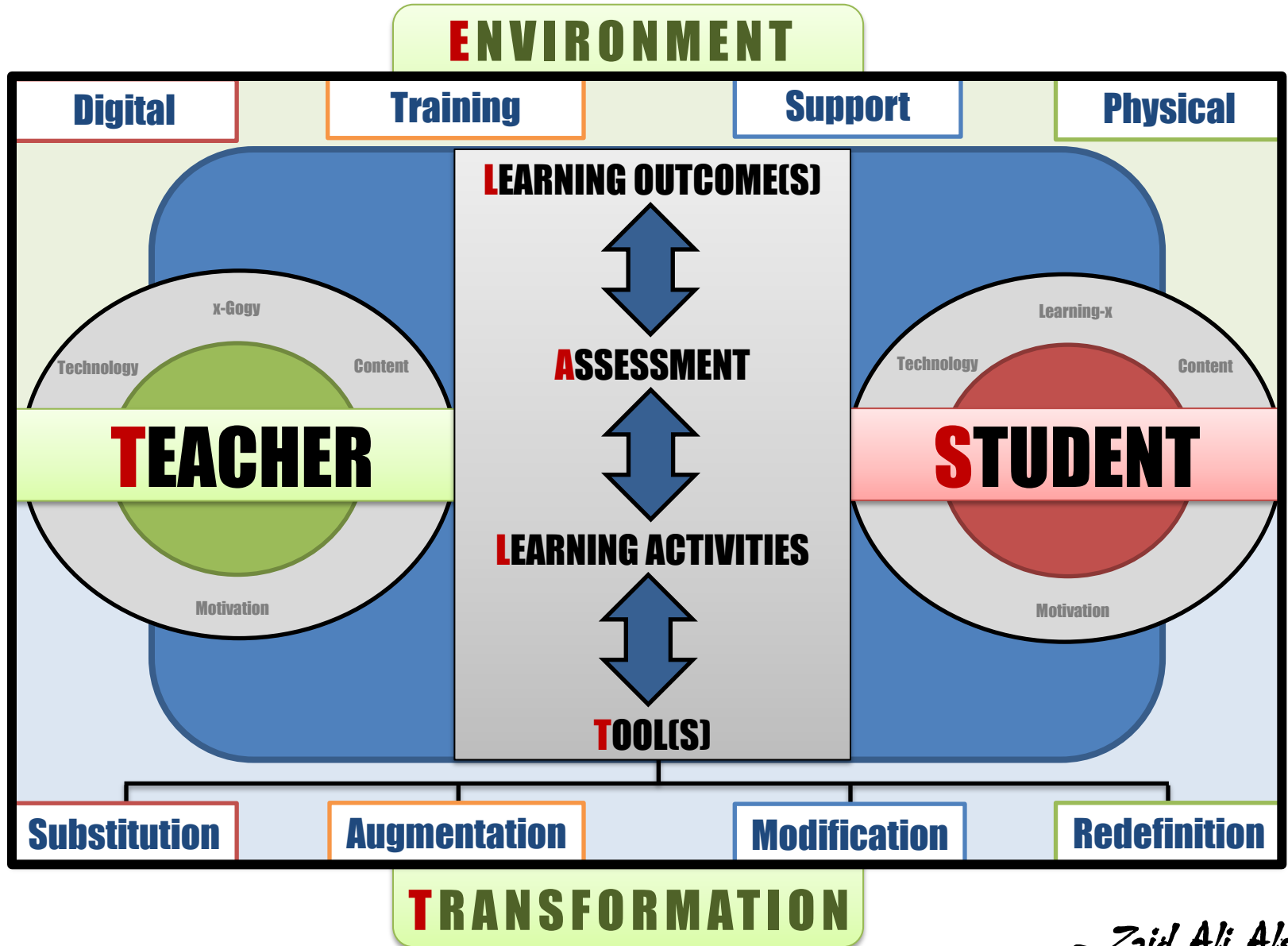
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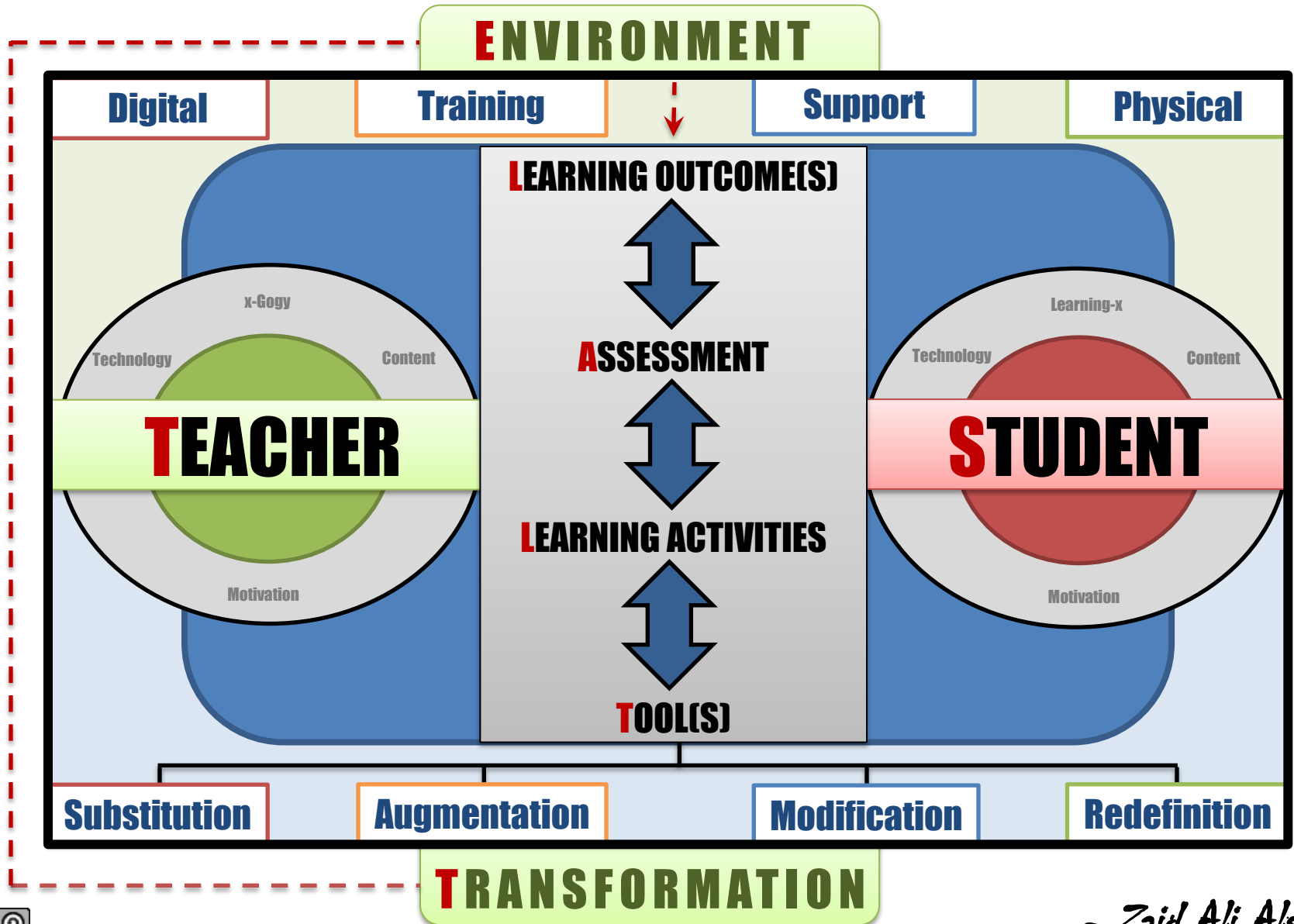
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Let's Recap! 21st Century Educators...

- ❑ **Learn** using a variety of tools to empower their Personal Learning Environment (PLE).
- ❑ **Design** interactive and engaging learning experiences using/ remixing/ reusing OER content, rapid e-learning and social media tools wherever possible.
- ❑ **Empower** learning environments that inspire students to think deeper and learn more effectively.
- ❑ **Assess** learning using a variety of methods to measure more authentic learning.
- ❑ **Reflect** learning and teaching online to gain more feedback and be part of the global learning conversation.
- ❑ **Transform** to become better educators proactively by always embracing change and exploring possibilities.



Q&A





INTERNATIONAL MEDICAL UNIVERSITY
MALAYSIA

Zaid Ali Alsagoff

E-Learning Manager

E-mail : zaid.alsagoff@gmail.com

Blog : <http://zaidlearn.blogspot.com/>

Twitter: <http://twitter.com/zaidlearn>

IMU : <http://imu.edu.my>

DID : +603-2731 7327

Ext. : 3115