

On the Importance of Technology By Tyler Wantulok

- Students demand it
- Kids are the digital native
- New teachers are demanding it
- Kids can learn at their own pace
- With technology, there are no limitations.
- Technology has the ability to enhance relationships between teachers and students
- Testing has gone online
- Multitude of resources
- Technology keeps kids engaged
- Technology is necessary to succeed outside of primary and secondary education

“By integrating technology into the classroom, teachers are changing the way they used to teach and providing students with the tools that will take them into the 21st century.”

Janelle Cox

The World is Different!

“Today’s children are “growing up digital.” Our children now have at their fingertips a virtual world—with all its promises and pitfalls.”-

enGauge 21st Century Skills: Literacy in the Digital Age

“We are living in a new economy—powered by technology, fueled by information, and driven by knowledge. The influence of technology will go beyond new equipment and faster communications, as work and skills will be redefined and reorganized.” — Secretary’s Commission on Achieving Necessary Skills (SCANS), U.S. Department of Labor

The World is Different!

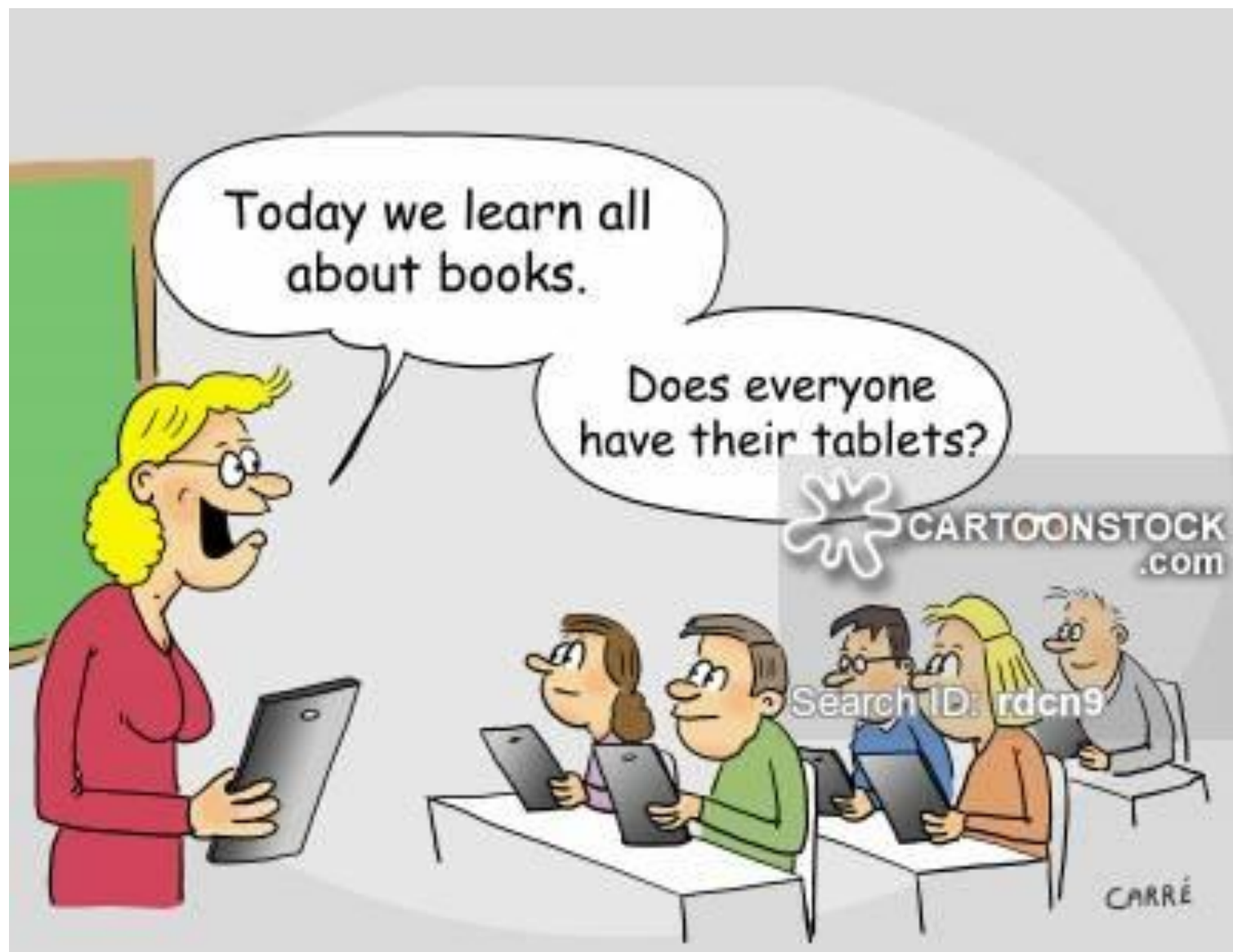
“Information and communication technologies are raising the bar on the competencies needed to succeed in the 21st century.” — 21st Century Literacy Summit

“Today’s definition of literacy is the ability to use “digital technology, communications tools, and/or networks to access, manage, integrate, evaluate, and create information in order to function in a knowledge society” - (International ICT Literacy Panel, 2002

THE BIG QUESTION!

**HOW ARE THESE
AFFECTING
EDUCATION?**

NEED TO MOVE BEYOND...



Today we learn all about books.

Does everyone have their tablets?

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CARRÉ

TECHNOLOGY CHANGES
HOW WE TEACH AND
WHAT WE TEACH

TECHNOLOGY CHANGES **HOW**
WE TEACH

TECHNOLOGY CHANGES
PEDAGOGY

TECHNOLOGY CHANGES **WHAT**
WE TEACH

TECHNOLOGY CHANGES
CONTENT

**WHERE DOES THIS ALL
HAPPEN?**

CONTEXT

TECHNOLOGY CHANGES **HOW** WE
TEACH (**PEDAGOGY**)

WHAT WE TEACH (**CONTENT**)

AND THE **CONTEXTS** WITHIN WHICH
TEACHING/LEARNING HAPPENS

**WHAT DO TEACHERS NEED
TO KNOW?**

Content Knowledge

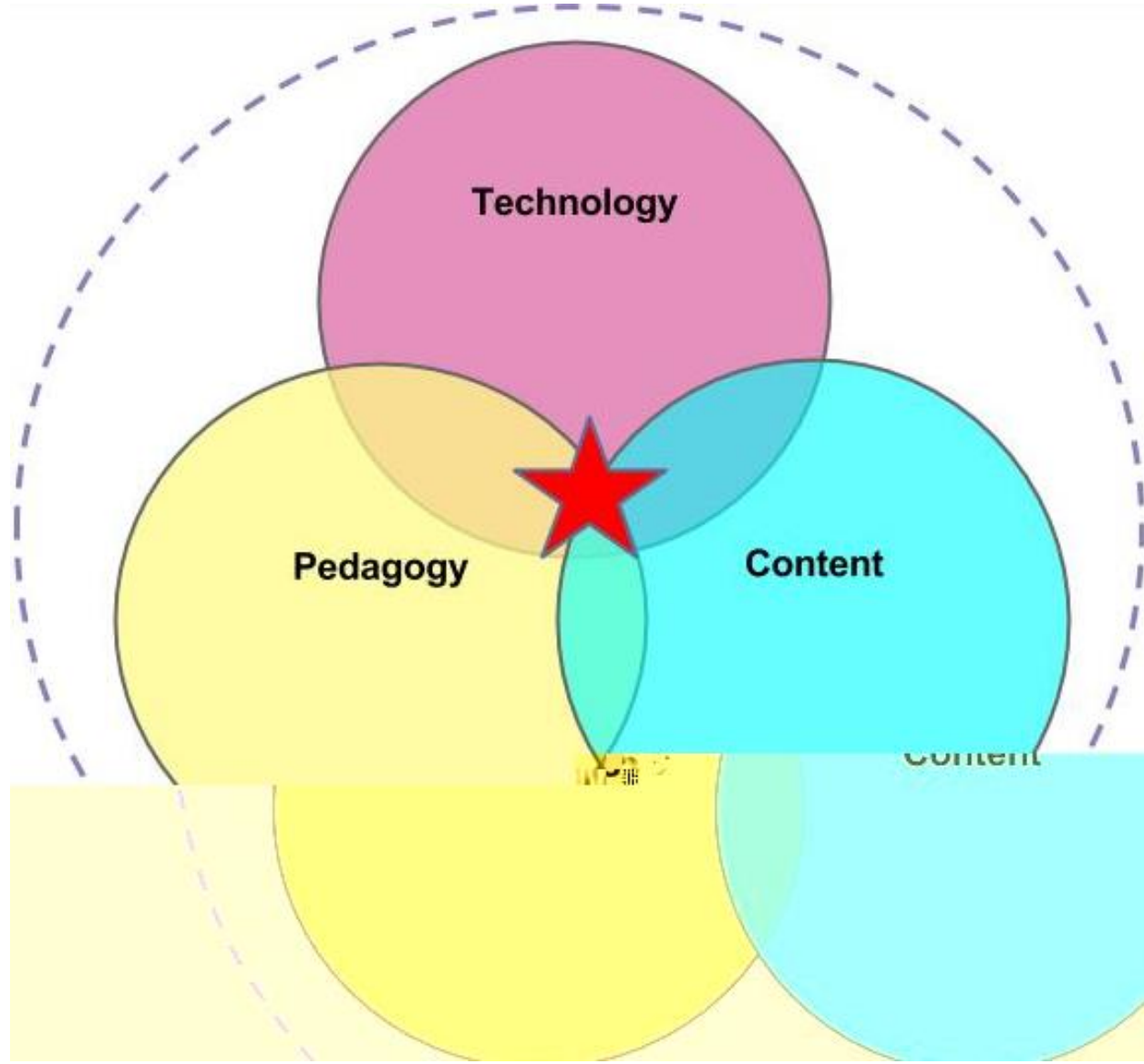
What content standard are you teaching?

Pedagogical Knowledge

How will you engage your students?

Technological Knowledge

What tools will allow you to accomplish your goals?



TECHNOLOGICAL PEDAGOGICAL
AND CONTENT KNOWLEDGE (TPACK)
FRAMEWORK

- **Creating** –To produce new or original work. *Tools* – Animating, blogging, filming, podcasting, publishing, simulating, wiki building, video blogging, programming, directing
- **Evaluating** – To justify a stand or decision; to make judgements based on criteria and standards through checking and critiquing. *Tools* – Grading, networking, rating, testing, reflecting, reviewing, blog commenting, posting, moderating

How can TPACK be used in the classroom?

- First, choose the learning outcomes that we will be working on that day or during that class session. The learning outcomes are the content.
- The second step they propose is choosing an activity type. The activity type is the pedagogy or how are the students going to learn the content.
- Finally, we can choose technologies that will support the activity type and aid the students in learning.

SAMPLE TPAC LESSONS

SUGGESTED TEMPLATE FOR TPACK LESSONS

CONTENT KNOWLEDGE (KNOWLEDGE AND SKILLS OF A CONCEPT)	PEDAGOGICAL KNOWLEDGE (HOW TO TEACH THE KNOWLEDGE AND SKILLS)	TECHNOLOGICAL KNOWLEDGE (AVAILABLE TECHNOLOGY)
1.		
2.		
3.		

“To be a great teacher, we have to combine our knowledge of the subject with our knowledge of how to teach. With the increasing focus on technology, we need to also learn how to combine technology with our content and pedagogy to create an effective learning environment.”

McGraw-Hill Education

SOURCES:

- GOOGLE
- YOUTUBE (PUNYA MISHRA)
- MCGRAW HILL EDUCATION
- <https://www.technokids.com/blog/technology-integration/lesson-planning-for-teachers/>

Thank you . . .