Transforming Educational Technology Integration

Thanks to Nick Kwan, Bob Stegner, and
Cheryl Bohn for collaboratively helping me develop
this presentation

All slides, notes, and whatnot are available on www.mackenty.org

Reflect on how you use technology when you are working with your students.

Please think of ONE tech integrated project you currently do in your classroom, or one way technology is embedded in the weekly curriculum.

SAMR Model

........developed a little over 5 years ago by Dr. Ruben Puentedura… in simple terms… SAMR is the acronym summarizing a four-stage model for looking at and understanding one's use of educational technology........
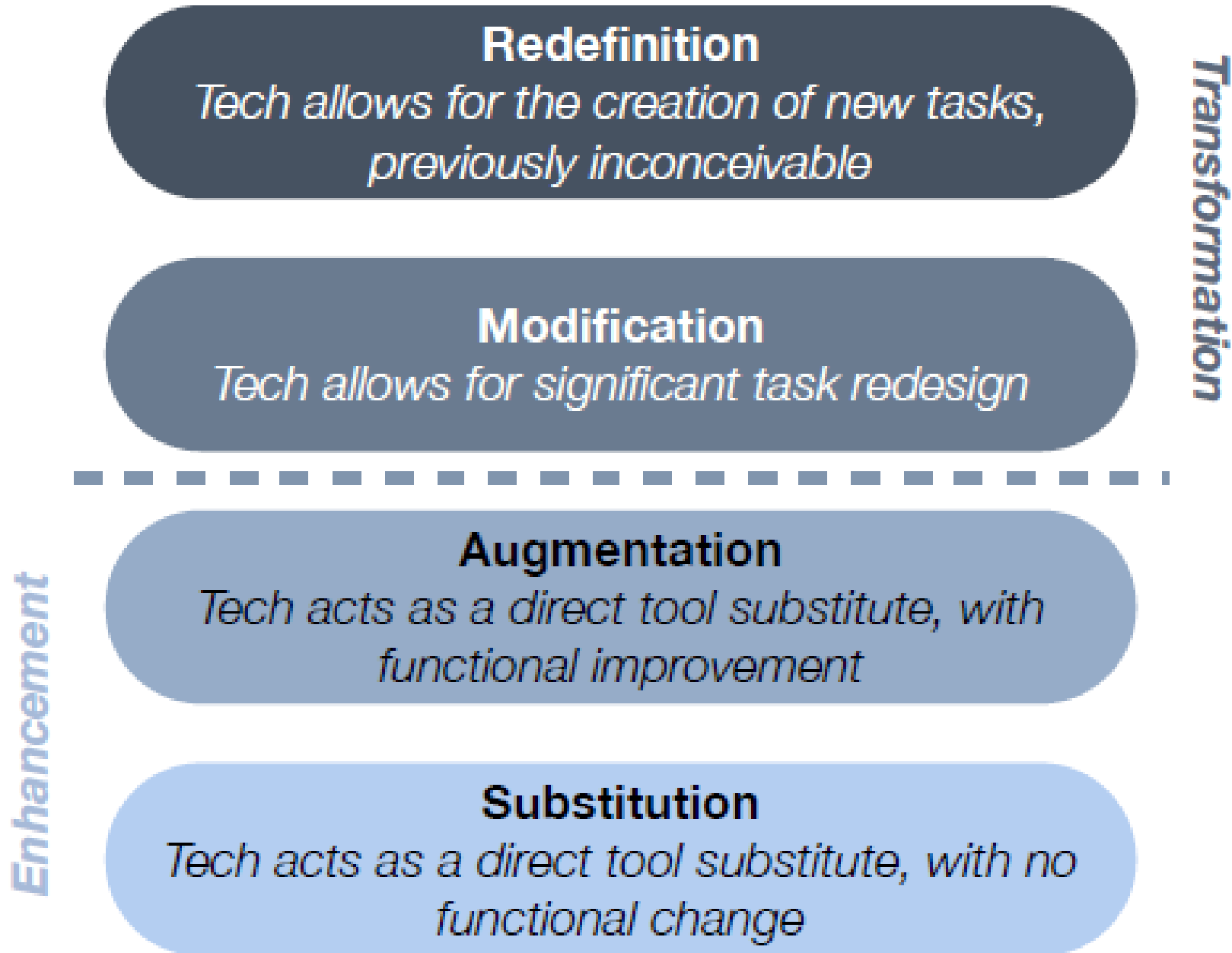
from Gary Akerman's blog http://www.nelms.org/blog/index.php

4 Stages to Integration

1. **S**ubstitution: technology acts as a direct tool substitute with no functional change.

2. **A**ugmentation: technology acts as a direct tool substitute with functional improvement.

3. **M**odification: technology allows for significant task redesign.

4. **R**edefinition: technology allows for the creation of new tasks, previously inconceivable.

from http://www.hippasus.com/rrpweblog/

The four stages of the SAMR model

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

Modification
Tech allows for significant task redesign

Transformation

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

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

Enhancement

http://hippasus.com/resources/actem2009/TechnologyChangeProcess.pdf

An example over time

Previous Practice...

M. Smith is an ASW classroom teacher who teaches writing. Some time ago, the primary mode for writing in class was pencil/pen and paper.

Substitution *is ...*

Students in M. Smith's class use a word processor for their writing. Students can now easily edit and format their writing. Published student work is now printed rather than handwritten. Students can save various drafts of their work and can produce multiple copies of the finished product without using a photocopier.

An example over time

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Augmentation *is ...*

Students improve their writing through utilizing the embedded tools in the word processor such as the spelling and grammar check, and the built-in thesaurus. Images, digital photographs and graphics are now easily incorporated into the overall document design. Students can choose easily from multiple page layouts and alternate page designs to enhance their product.

An example over time

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Modification *is ...*

M. Smith shifts the focus of some of the class writing assignments to be collaborative. Students utilize online wikis to write in small groups, conduct peer editing and feedback, and to comment on each group's final products. Work on the projects can be done synchronously in class time, as well as asynchronously out of class. The final writing projects are shared electronically with the wider school community through the class website/blog.
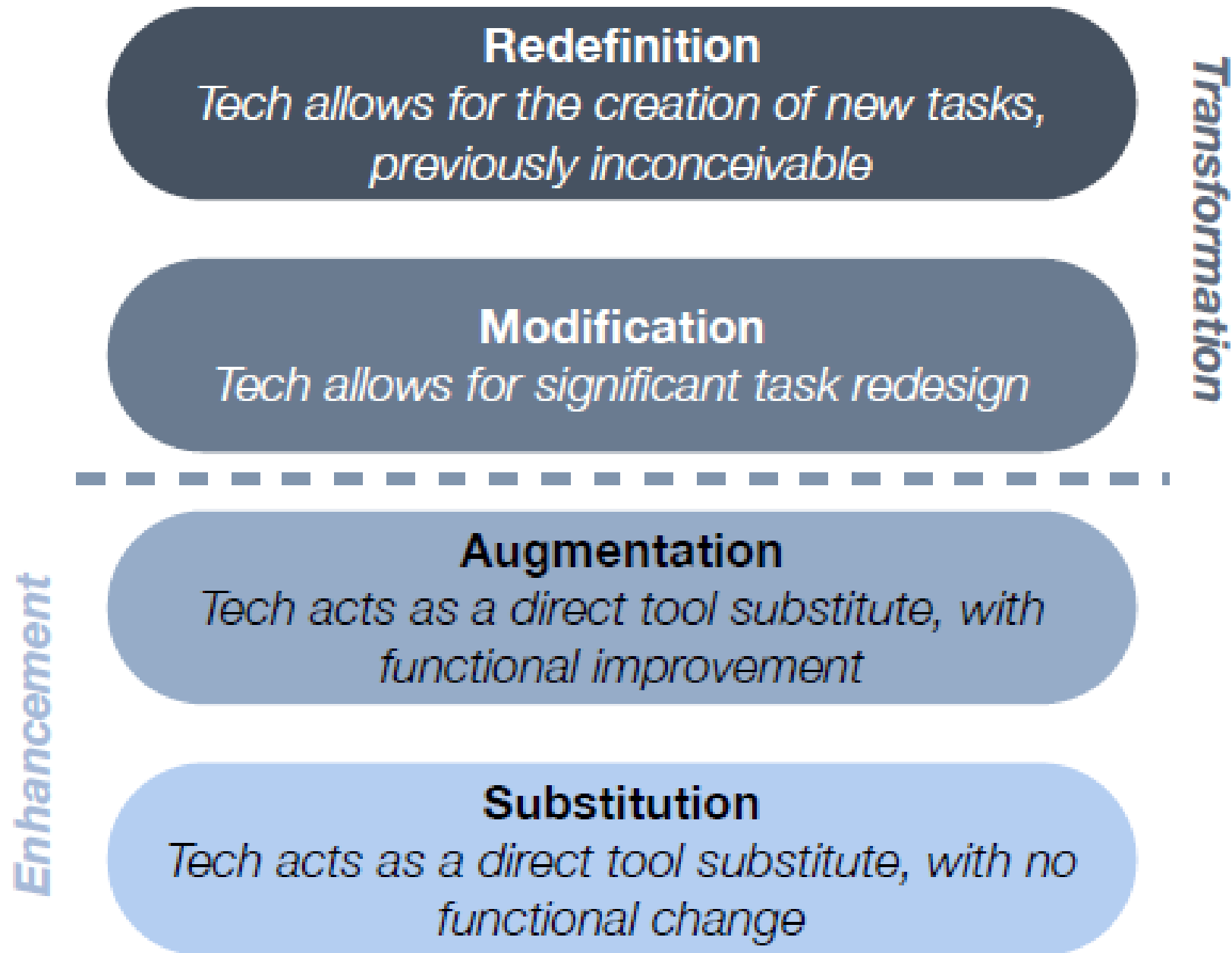
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Redefinition *is ...*

M. Smith's class collaborates with other classes locally or globally on a common issue or problem. Students research and share their findings in order to find a common solution. The project has grown to be cross-curricular and multidisciplinary, utilizing the strengths of the students in the different classes. Students use a variety of multimedia to collect, communicate and distribute their findings and conclusions. Various technologies are used to communicate and share information between the various school groups.

The four stages of the SAMR model -> Where does your current technology use fit in the SAMR model?

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Breakout Activity

- **On your own** - identify your most favorite Tech integrated student activity
- Think about whether the activity has changed/developed over time with technology
- Use the SAMR model to identify various stages the activity has fit into over time
- Share your activity with your team/department members
- **With your group** - choose one of the activities from your team that falls under Enhancement; collaboratively identify ways in which the activity could be moved up into Transformation

Questions?
Comments?

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