

STEM, not S-T-E-M

A Workshop on Integrative Teaching

Session Goals:

- *Explore the terms: “Integrative” and “STEM”*
- *Introduce tool: Topic Wheel*
- *Examples:*
 - *K-3 Card Sort*
 - *4-5 Patterns and Observations*
 - *6-8+ Plague*
 - *5-12 Genetics and Probability*
- *(If time: Development)*
- *Debrief/ Questions*

Integrative, defined:

Integrative learning experiences are those which forge meaningful connections of concepts, constructs, and principles within and across academic subjects and real-world situations

What are some of the roadblocks to implementing Integrative lessons in the classroom?

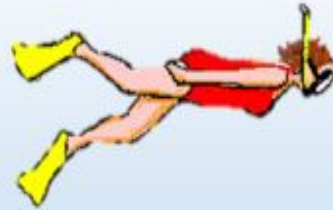
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Multidisciplinary

- *Based on standards*
- *Theme focused*
- *Parallel Disciplines – Learning Centers*



Intradisciplinary

- *Within Disciplines*
- *Skills focused*

Interdisciplinary

- *Organized around common concepts*
- *“interdisciplinary”*
- *Themes/Skills*
- *Disciplines identifiable but less focused upon*



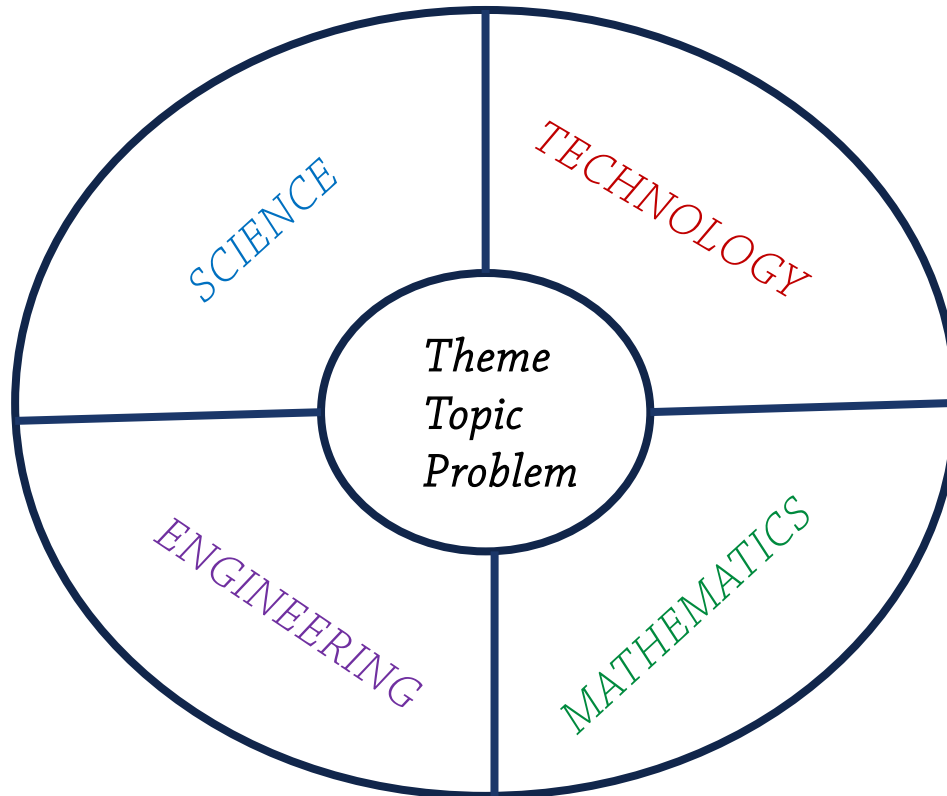
Transdisciplinary

- *Student-lead*
- *Problem-Centered*
- *Open-ended*

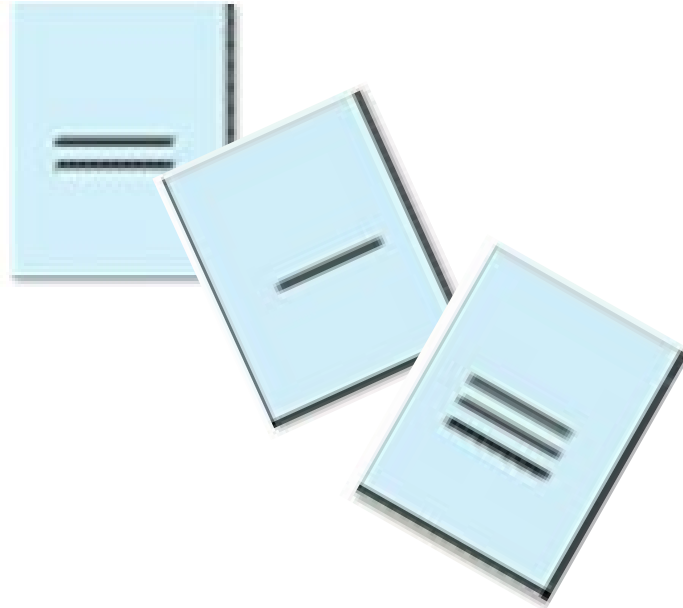
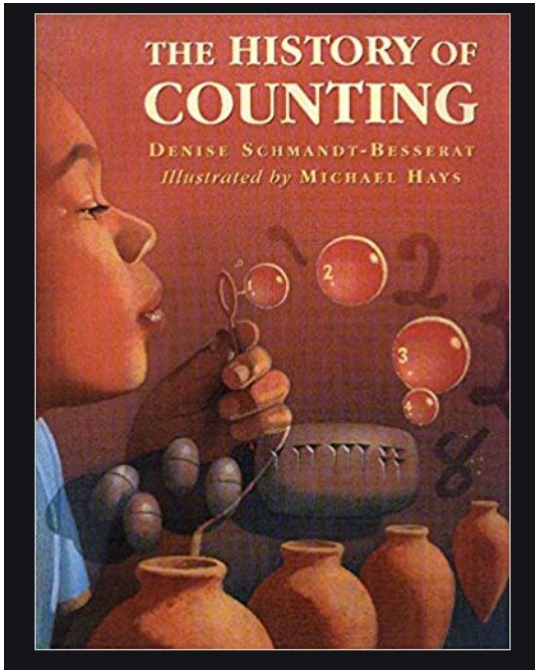


STEM and Integrative Teaching:

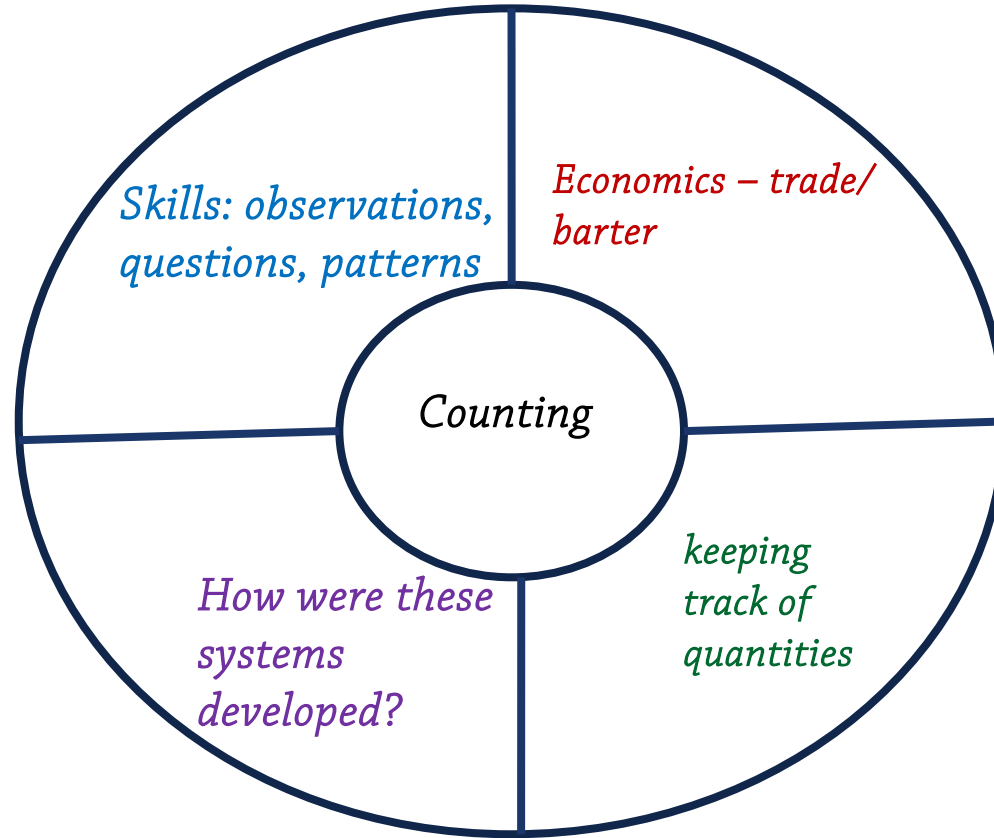
- *Designed to prepare students for future technology careers.*
- *Build skills, collaboration, integrative – “out of the box thinking”*
- *Connect to real-world applications*



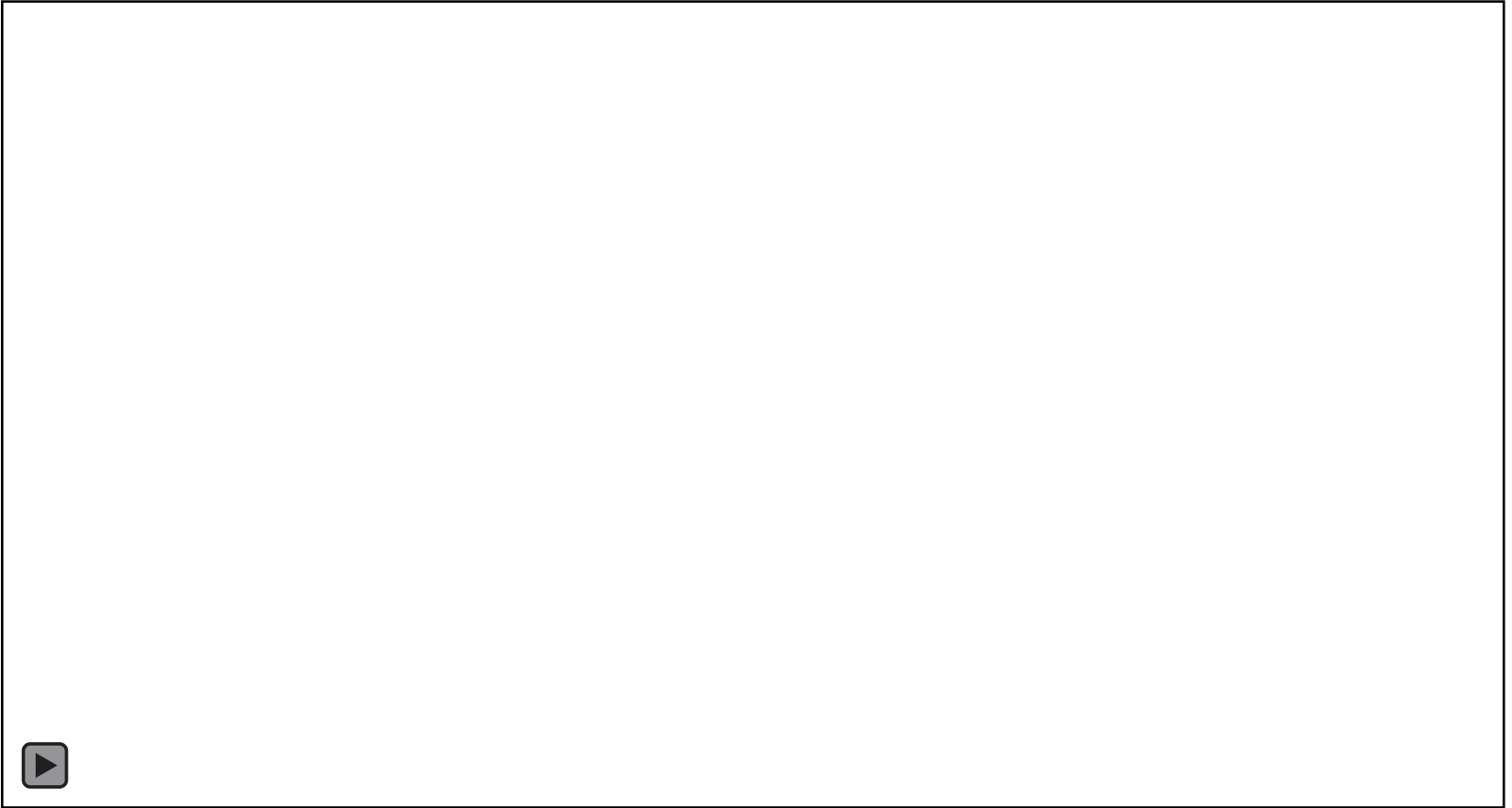
K-3 Card Sort:



K-3 Card Sort:



Grades 4-5 Patterns and Observations:

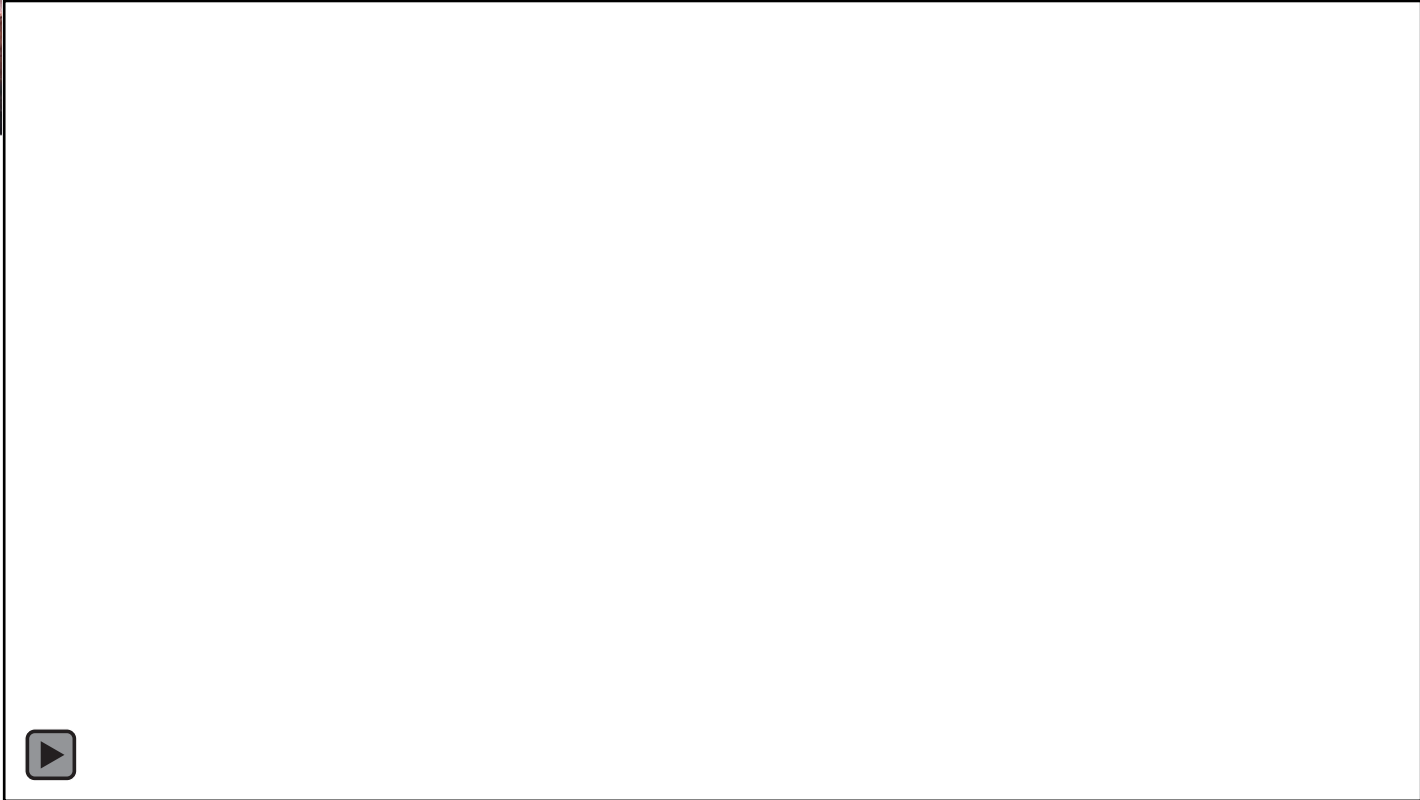


<https://musiclab.chromeexperiments.com/Kandinsky/>

*Grades 4-5 Patterns and
Observations:*

Where is the technology link?

Grades 6-8+ Plague:



Grades 5-12 Genetics and Probability



Thank you for participating!

Any Questions?

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