“A” is for ANIMATION

Using Animation Production to Deepen Understanding in STEM

Global Connections and Digital Learning Conference

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SusanSabella@EarlySTEAMLit #MASSCue16
Scientists & engineers make their thinking visible!
Young scientists & engineers make their thinking visible too!

Were they ready for the next step?

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Which app?

When will they do it?

What do the standards expect?
Why did I choose DoInk Animation and Drawing?

- Brief tutorials shared during snack time
- Begins with a blank canvas
- Easy to use “undo” button
- “Play” button encourages revision while creating
- App-smashing is possible

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Why did I decide to add DoInk Animation and Drawing to our literacy workshop?

★ Students reread a variety of informational texts to clarify understanding in order to **CREATE** an evidence-rich animation
★ Animation naturally requires a **SYNTHESIS** of information
★ When it is a collaborative **DESIGN** process, students are purposefully using speaking and listening skills and content-specific vocabulary
★ Students are better prepared to **ANALYZE** digital media if they are involved in creating digital media

*DOK Level 4

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Why should animation be included in classrooms & teacher prep programs?

NGSS SCIENCE AND ENGINEERING PRACTICES.2
Developing and using models.
K-2 examples: diagrams, physical replica, dramatization, or storyboard.

ISTE 6.C CREATIVE COMMUNICATOR
Students communicate complex ideas clearly and effectively by creating or using a variety of digital objects such as visualizations, models, or simulations.

CCSS.ELA-LITERACY.SL.5 ANCHOR STANDARD
Make strategic use of digital media and visual displays of data to express information and enhance understanding of presentations.
In 1st grade, add drawings or other visual displays to descriptions when appropriate to clarify ideas, thoughts, and feelings. (CCSS.ELA-LITERACY.SL.1.5)

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Wheat Straw Investigation

PLANTS & ANIMALS

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Observations

- Reread Science Notebooks
- Content Vocabulary Use
- Speaking and Listening
- Phonetic Approximations
- Concepts of Print
- Narrative “Writing”
Your Turn!

What happens to water particles when they are heated?

Watch

Have-a-Go

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Endless possibilities...

How can your students use animation to deepen conceptual understanding?

- Cause and Effect
- Cycles
- Observed changes over time
- Systems (& parts of systems)
DoInk Resources

Link to Google Doc...

https://docs.google.com/document/d/1v5UwvtKJfWB56lEgx4gtFW6M3f1tVv2pwlXJWOVwu1c/edit?usp=sharing