Family STEM Snack Boxes

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Housekeeping

• All participants are muted and video is turned off
• Please type questions in the chat box and they will be answered following the presentation
• This webinar is being recorded and will be made available at imsia.edu/events
Center for Teaching and Learning at the Illinois Mathematics and Science Academy

- Offer professional development sessions for STEM and pedagogy
- IMSA’s signature strategy of learning: Inquiry-Based, Problem-Centered, Competency-Driven and Integrative
- On or off-site (and now online!). Can be customized
- To learn more, visit imsae.edu/centers
Objectives

• Introduce weekly Family STEM Snack Box offerings
• Highlight uses and applications STEM Snack Boxes
Activity Properties/Qualities

• Familiar and safe materials
• Rigorous but also accessible
• Can be scaffolded for various grade levels
• Integrates multiple scientific content areas
• Highlights Science and Engineering Practices
Activity Format

• Record detailed observations & drawings while doing activity

• Answer focus questions using CER format
  • **Claim** that answers the question
  • **Evidence** from students' data
  • **Reasoning** that involves a rule or scientific principle that describes why the evidence supports the claim
Snack Box Activity #1: Marbled Paper
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• Questions focus on making observations, drawing connections, thinking about why something occurs
• Questions connect to various scientific concepts and applications
• Question 4 is “the same” for all grade bands
Snack Box Activity #2  Buttery Science

- Buttery Science
- Cream + Agitation (physical force/energy) = Butter
Snack Box Activity #2

• Questions touch upon grade-level NGSS standards:
  • Physical Characteristics
  • Physical Changes
  • Concentration
  • Energy
  • Properties of Lipids in water/ biological relevance
Snack Box Uses

- Science Lab at school
- Science Exploration at home
- Science/STEM Camp
- Parent/Back to School Events
Additional Resources: imsa.edu/e-teaching

- Weekly “Snack Boxes” of STEM activities for PreK-12
- Make 1:1 appointments with a Curriculum/PD specialist
Thank You!

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