University of Northern Iowa

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Science Education Update Conference Documents

Science Education Update Conference

4-12-2024

Iowa Science Phenomena

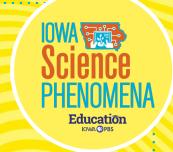
Tiffany Morgan

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lowa Science Phenomena

Tiffany Morgan | Instructional Media Coordinator



Today's Goals

- Introductions
- Explore Iowa Science Phenomena
- Grow our skills for identifying "good" local phenomena





What is it that is happening in the world that we need our science to explain?





Misconception	More like this	
Phenomena has to be flashy to engage students.	It's more important to generate curiosity and provide genuine lines of inquiry.	
If students are interested in it, it's a good phenomenon.	Support deep engagement to investigate and generate explanation.	
Phenomena is a new word for the initial lesson hook.	Should drive instruction and help build coherence.	
Experiments, labs and activities are phenomena.*	Phenomena are events naturally occurring in the world.	
Phenomena are questions created by the teacher.	Student-generated questions for investigation are an outcome of phenomena, but the phenomena itself.	

Are these

(This is a topic)

Not Phermane Loo Chara



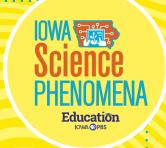
Phenomena!

(Observable community event leading to sense-making through 3D driven investigations.)

	omena :	1 Heriomena.
5-ESS2-1: Develop a mod and/or atmosphere inte	del using an example to describe ways the geo	sphere, biosphere, hydrosphere,
Dirt	Erosion	Houses near a stream in our community are in danger of collapsing.
(This is a topic)	(Observerval, but closer to a content topic, doesn't lead to sense-making and 3D investigation)	(Observable community event leading to sense-making through 3D driven investigations.)
2-LS2-2: Develop a simp plants	le model that mimics the function of an animal	in dispersing seeds or pollinating
Plants	Classroom potted plant grown from seed.	A burr was stuck to a student during recess.

(Observerval, but isolated. Doesn't lead to

sense-making and 3D investigation)

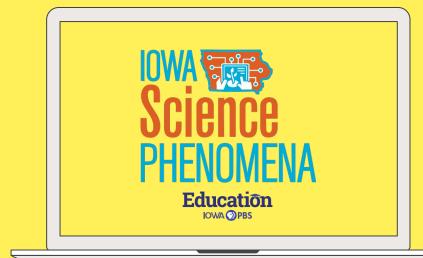


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Putting it Together

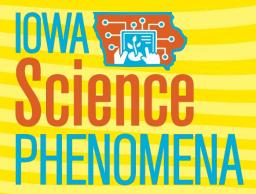
- Task #1: Work at tables to add one phenomena to one sticky note. Fill as many sticky notes as possible in time allotted
- Task #2: Organize your sticky notes into the three columns (Topic, Getting There, Phenomenon!)
- Task #3: Gallery Walk/feedback

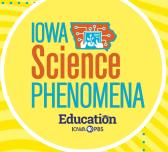
Wrappin git Uppin

- Successes
- Challenges
- Next Steps
- Evaluation
- <u>lowa Science Phenomena</u>
 <u>Teacher Workshop Feedback</u>









Education

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Want to connect?

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