Pedagogy
Past and Present

Nevada Library Association Annual Conference - November 4, 2019
Terry Lee Wells Nevada Discovery Museum: Meghan Schiedel

Put a Spin on It!

Use the materials and instructions at your tables to complete the challenge as a group
The Discovery’s CORE MISSION

We seek to inspire
by reaching more people, more often
with exciting ways to experience science.

VISITOR INFORMATION

- The Discovery has welcomed more than 1,000,000 visitors since opening on September 10, 2011
- 195,485 visitors engaged at the museum in 2017 alone
- Approximately 4,200 households hold an annual membership
- 15% of museum visitors come from outside Nevada
EDUCATIONAL IMPACT

- Nearly 17,000 K–8th grade students visited The Discovery on a field trip during the 2018/19 school year.
- 31% of the students who participated in field trips attend WCSD schools with 50 percent or higher Free and Reduced Lunch Program enrollment.
Put a Spin on It!

**Direct Instruction**
- Followed the instructions provided.
- Used the materials provided to create a spinning top.
- Directed any questions you have to the facilitator.

**Inquiry Based Instruction**
- Followed the steps of the Design Thinking Process.
- Used the materials provided to create a spinning top.
- Discussed any questions you have with the members in your group. The facilitator checked in with your group periodically.
A Balancing Act

Past Pedagogy
Direct Instruction: Teacher-driven
- Education is delivered through recitation and memorization techniques. Standards are addressed sequentially.

Present Pedagogy
Inquiry Based Instruction: Student-driven
- Education is activity based, using questioning, explanation, demonstration and collaboration techniques. Multiple standards are addressed through skill practice.
Design Thinking Process

Empathize
Define
Ideate
Prototype
Test

Problem Finders and Solution Designers

What happens when students embrace design thinking?
By John Spence @spencerideas
Moving Forward
Next Generation Science Standards
Physical Science Progression K-12

https://www.nextgenscience.org

The LAUNCH Cycle and CREATE Framework

The LAUNCH Cycle
http://thelaunchcycle.com

The CREATE Framework
https://centerforchildhoodcreativity.org
The 5E Model and IDEO Design

The 5E Model of Instruction
https://renewinspires.wordpress.com

IDEO Design Thinking for Educators
https://designthinkingforeducators.com

1) Suggestions for implementation

2) Challenges or issues you’d like to discuss

3) Any other questions
Thank you for all that you do!

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