

# VELS Institute

Learning About Our World: Mathematics, Science and Social Studies

October 23 and 24, 2017

Killington Grand Hotel, Killington, VT



PRESENTERS	<b>Sally Anderson</b> Executive Director Vermont Center for the Book <a href="mailto:sally@mothergooseprograms.org">sally@mothergooseprograms.org</a>	<b>Greg DeFrancis</b> Director of Education Montshire Museum, Norwich VT <a href="mailto:greg.defrancis@montshire.org">greg.defrancis@montshire.org</a>
RESOURCES	Handouts, PowerPoints, and Materials from this Institute <a href="http://www.puentesculturales.com/projects/vermont-workshop/learning-about-our-world/">http://www.puentesculturales.com/projects/vermont-workshop/learning-about-our-world/</a> Agenda: <a href="http://www.puentesculturales.com/projects/vermont-workshop/learning-about-our-world/agenda/">http://www.puentesculturales.com/projects/vermont-workshop/learning-about-our-world/agenda/</a> Presentation: <a href="http://www.puentesculturales.com/projects/vermont-workshop/learning-about-our-world/presentation">http://www.puentesculturales.com/projects/vermont-workshop/learning-about-our-world/presentation</a> Handouts: <a href="http://www.mothergooseprograms.org/vels-institute-2/">http://www.mothergooseprograms.org/vels-institute-2/</a> Resources: <a href="http://www.puentesculturales.com/projects/vermont-workshop/learning-about-our-world/Resources/">http://www.puentesculturales.com/projects/vermont-workshop/learning-about-our-world/Resources/</a>	

## Agenda: Day 1

- 9:00 – 12:00 Welcome  
Orientation to the VELS ~ Introduction Video with Camille  
Learning About Our World  
Case Study 1: Force & Motion – Deconstruction of Principles  
Literature Links  
Resources/Gumdrops
- 12:00 – 1:00 **LUNCH (provided)**
- 1:00 - 4:00 Case Study II: Building a Town – Physical Science, Engineering, Math  
Deconstruct Case with VELS and Persona, “Montgomery”  
Individualization for Different Age groups  
Resources/Gumdrops  
Wrap - Up of Day

## Agenda: Day 2

- 9:00 – 12:00 Case Study III: Create a Classroom/School Business – Economics and Inquiry Project  
Mathematics, Numbers and Operations  
Deconstruction of Principles  
Literature Links  
Resources/Gumdrops
- 12:00 – 1:00 **LUNCH (provided)**
- 1:00 - 4:00 Case Study IV: One-Year Study of One Tree – Life Science, Math, Measurement & Inquiry  
Deconstruction with VELS  
Age Group Planning Work  
Resources/Gumdrops  
Thank you and Quick Feedback Survey

## **Institute Learning Outcomes and Expectations ~ Participants will:**

1. Build awareness, understanding, and comfort in using the VELS sections and domains, and especially the Learning About the World section.
2. Create more inclusive learning experiences for infant through Grade 3 children.
3. Apply Institute learnings to classroom practices and translate research to practice.
4. Learn to develop and implement learning experiences that cross VELS sections and learning domains.

**What are your learning expectations?**

## **Institute Handouts** <http://www.puentesculturales.com/projects/vermont-workshop/learning-about-our-world/>

- Vermont Personas
- The Vermont Early Learning Standards – A Resource for Families
- Using the Vermont Early Learning Standards to Support Each and Every Child’s Full Participation

## **Vermont Early Learning Standards (VELS) Resources**

<http://education.vermont.gov/sites/aoe/files/documents/edu-early-education-early-learning-standards.pdf>

Vermont Early Learning Standards Introduction video <https://youtu.be/U3zsHsE8pNU>

## **VELS Shorthand Guide & Resources**

<http://www.puentesculturales.com/projects/vermont-workshop/learning-about-our-world/Resources/>

## **VELS Institute~ Learning About Our World – Resources & Bibliography**

<http://www.mothersgooseprograms.org/vels-institute-2/>

## **Science Resources**

<http://www.puentesculturales.com/projects/vermont-workshop/learning-about-our-world/Resources/>

- Neil deGrasse Tyson: Want Scientifically Literate Children? Get Out of Their Way  
<https://www.youtube.com/watch?v=AIEJjpVIZu0>
- Beyond Bouncing the Ball: Toddlers and Teachers Investigate Physics  
<http://www.naeyc.org/yc/article/bouncing-ball-physics>
- Hypothesizing About Bugs <https://www.teachingchannel.org/videos/pre-k-science-lesson>
- Unlocking Learning: Science as a Lever for English Learner Equity  
<https://west.edtrust.org/resource/unlocking-learning-science-lever-english-learner-equity/>
- This is Your Brain on Engineering <https://www.youtube.com/watch?v=ArNAB9GFDog>
- Making Butter [https://www.youtube.com/watch?v=LMEJY6zvY\\_w](https://www.youtube.com/watch?v=LMEJY6zvY_w)

## **Social Studies Resources**

<http://www.puentesculturales.com/projects/vermont-workshop/learning-about-our-world/Resources/>

- Children Draw People Doing Different Jobs <https://www.youtube.com/watch?v=qv8VZVP5csA>

- Calendar Time for Young Children: Good Intentions Gone Awry  
<http://www.naeyc.org/files/tyc/file/CalendarTime.pdf>
- Exploring Social Studies through Children's Books  
<https://www.naeyc.org/files/yc/file/200509/SocialStudiesBooksBTJ905.pdf>
- Social Studies in Preschool? Yes!  
[https://www.mbaea.org/documents/resources/Young\\_Children\\_\\_March\\_2014\\_Social\\_S\\_F240BFB7A4BAC.pdf](https://www.mbaea.org/documents/resources/Young_Children__March_2014_Social_S_F240BFB7A4BAC.pdf)

## Math Resources

<http://www.puentesculturales.com/projects/vermont-workshop/learning-about-our-world/Resources/>

- What is the Best Number?  
<https://www.youtube.com/watch?v=TIYMmbHik08&list=PLxyTknhJkmTMPcC-y4zeNzBF4V555eBFW>
- Help! They Still Don't Understand Counting <http://files.eric.ed.gov/fulltext/EJ875422.pdf>
- More, All Gone, Empty, Full: Math Talk Every Day in Every Way  
[http://www.naeyc.org/yc/files/yc/file/201205/RockingAndRolling\\_YC0512.pdf](http://www.naeyc.org/yc/files/yc/file/201205/RockingAndRolling_YC0512.pdf)
- Early Math Collaborative <http://earlymath.erikson.edu/>
- Math Through Songs and Music  
<https://eclkc.ohs.acf.hhs.gov/hslc/tta-system/teaching/docs/math-do-tools-songs-music.pdf>
- Long Division Rap <https://www.youtube.com/watch?v=y3F0SItM-os>
- Formula for Success: Engaging Families in Early Math Learning  
<https://globalfrp.org/content/download/83/561/file/Early%20Math%20FINE.pdf>

## Closing

Creativity Takes Time <https://www.youtube.com/watch?v=VPbjSnZnWPO>