

Hello!

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unchartered

TUTORING

Non-Siloed Education

Background, Why Me?

Science & Art are Childhood Friends

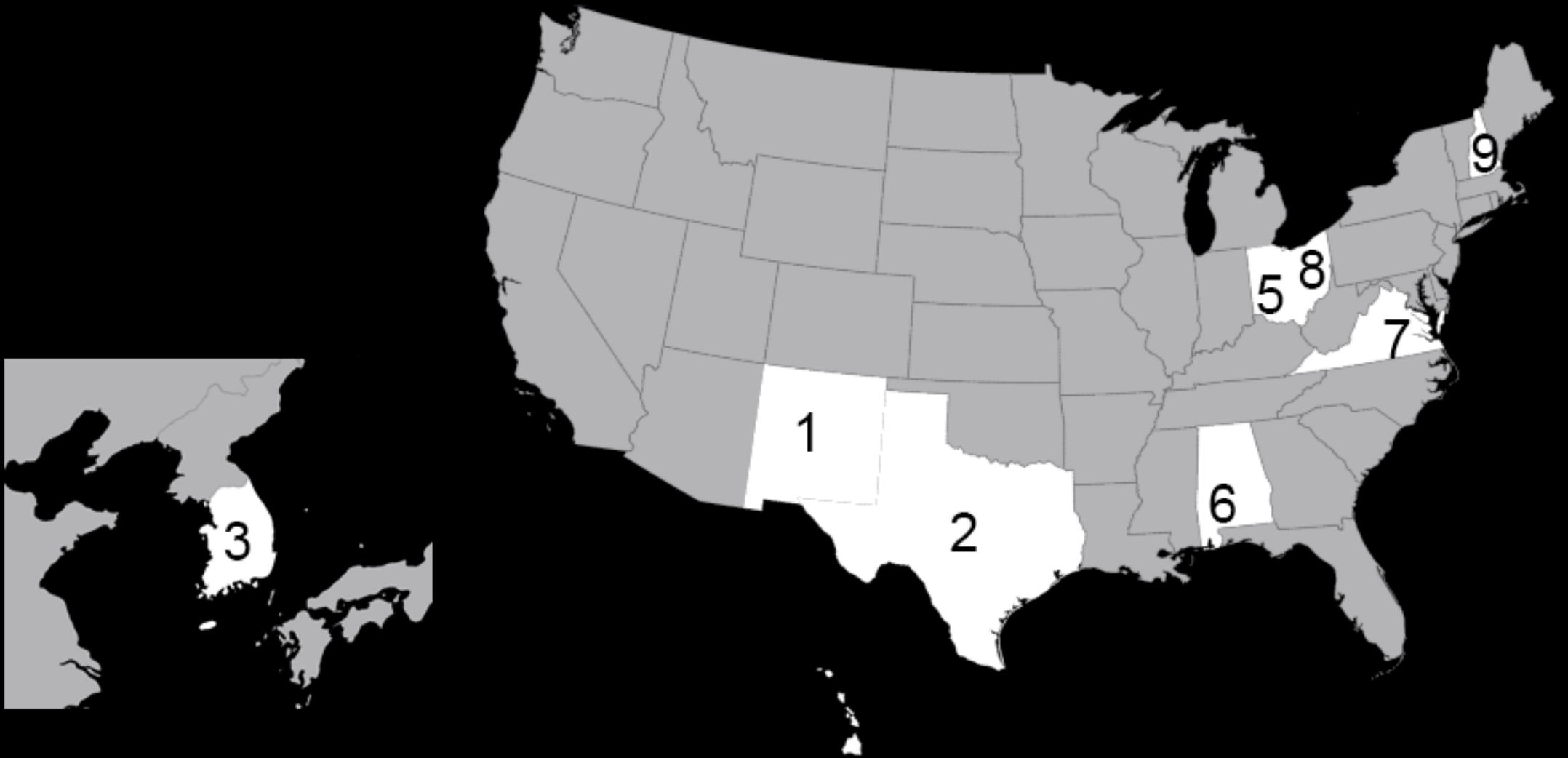
Their Current Relationship

Products

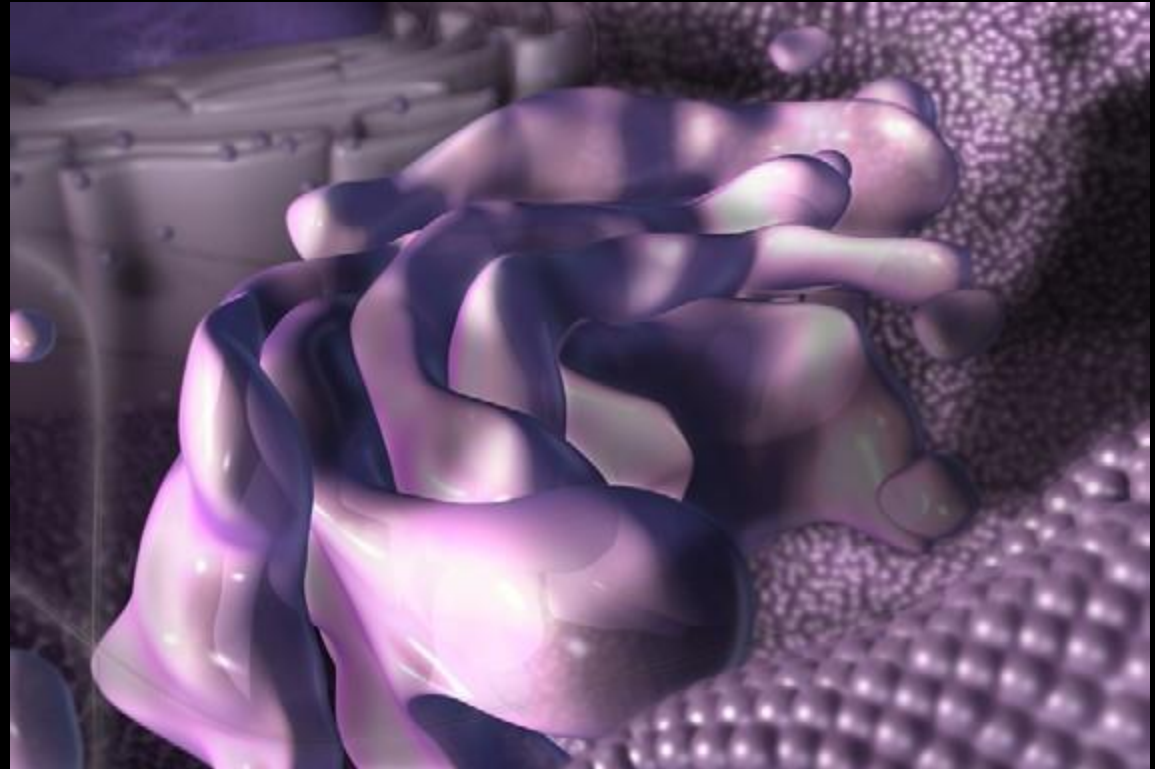
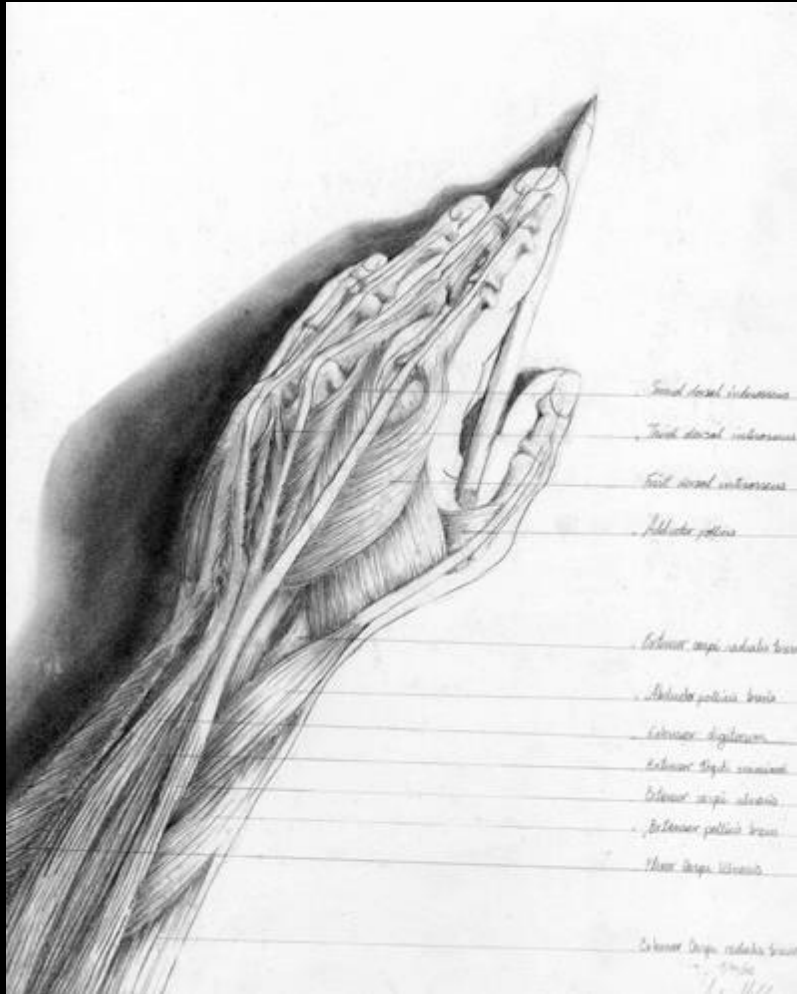
Bring it to The Classroom



Where am I from?



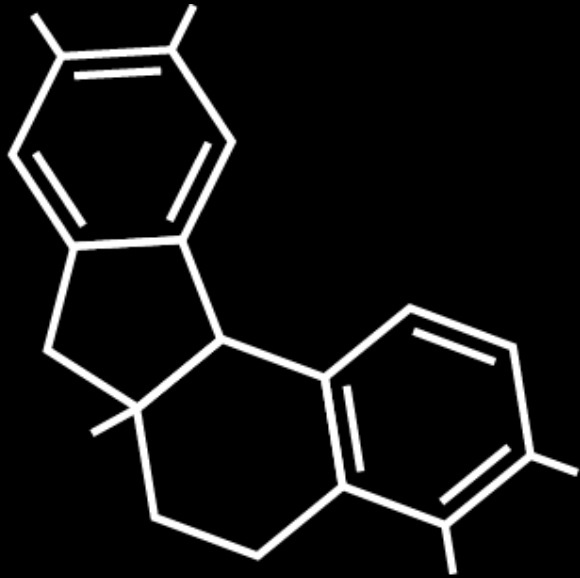
College Work



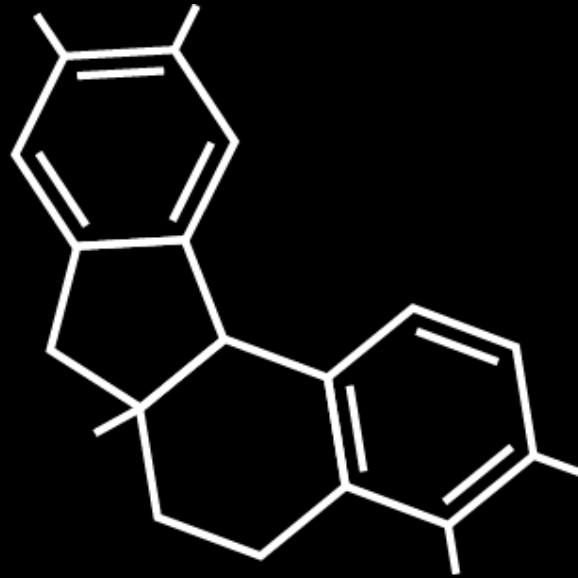
Traditional Biomed Art



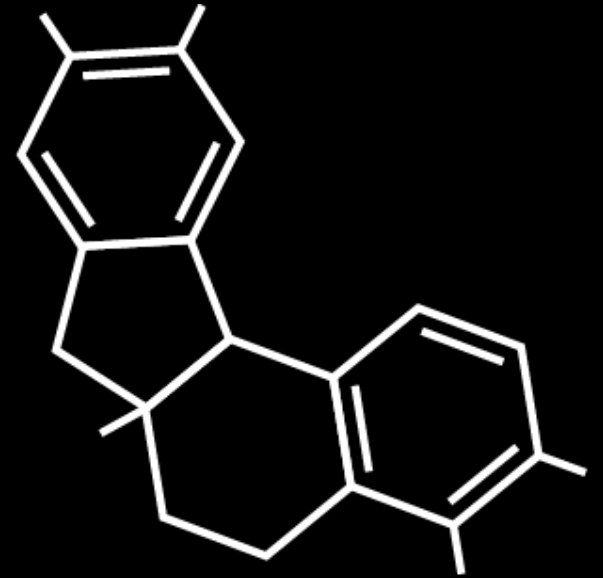
No, thank you.



BioSci
creative

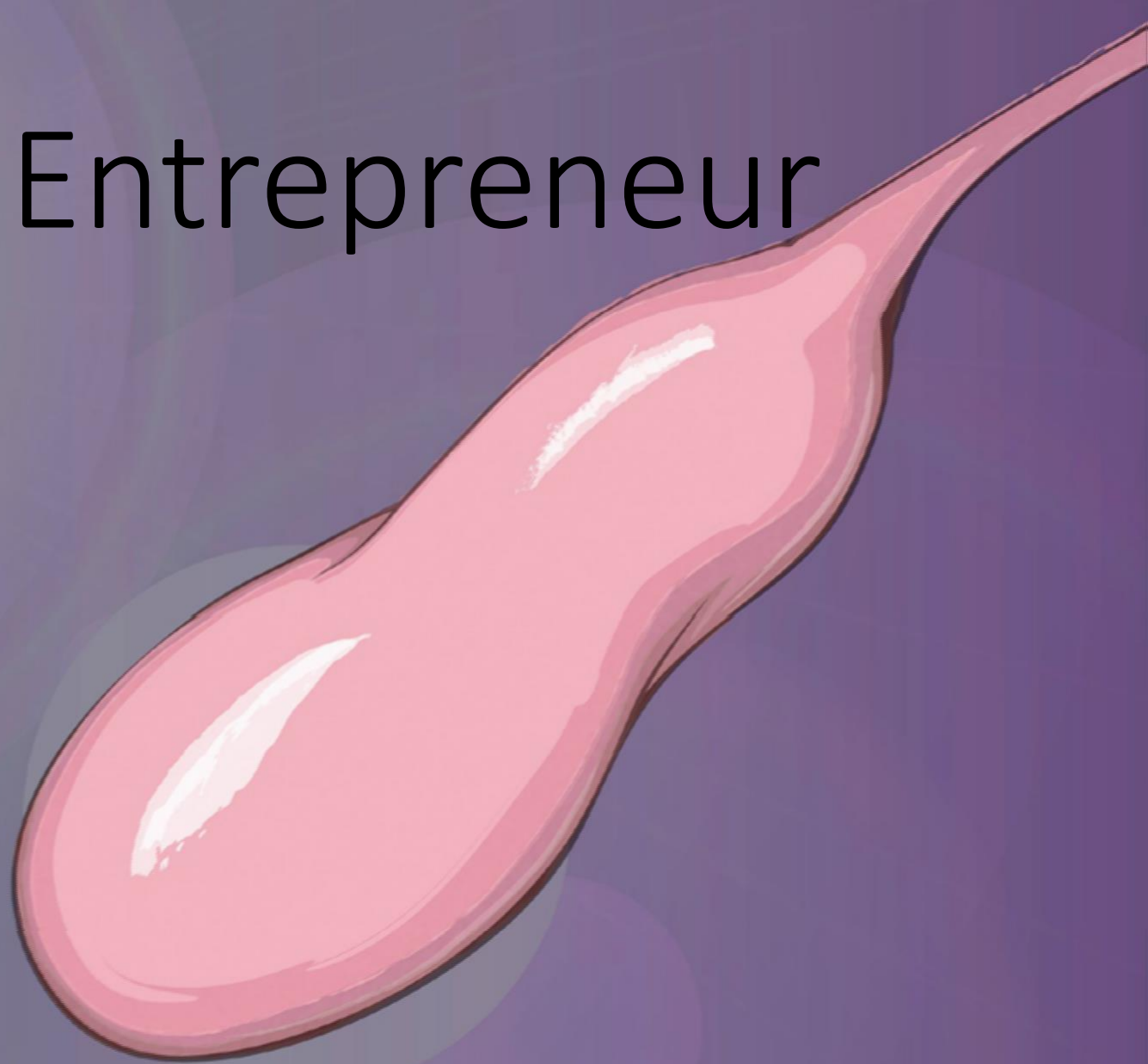


BioSci
creative



BioSci
creative

Freelance = Entrepreneur



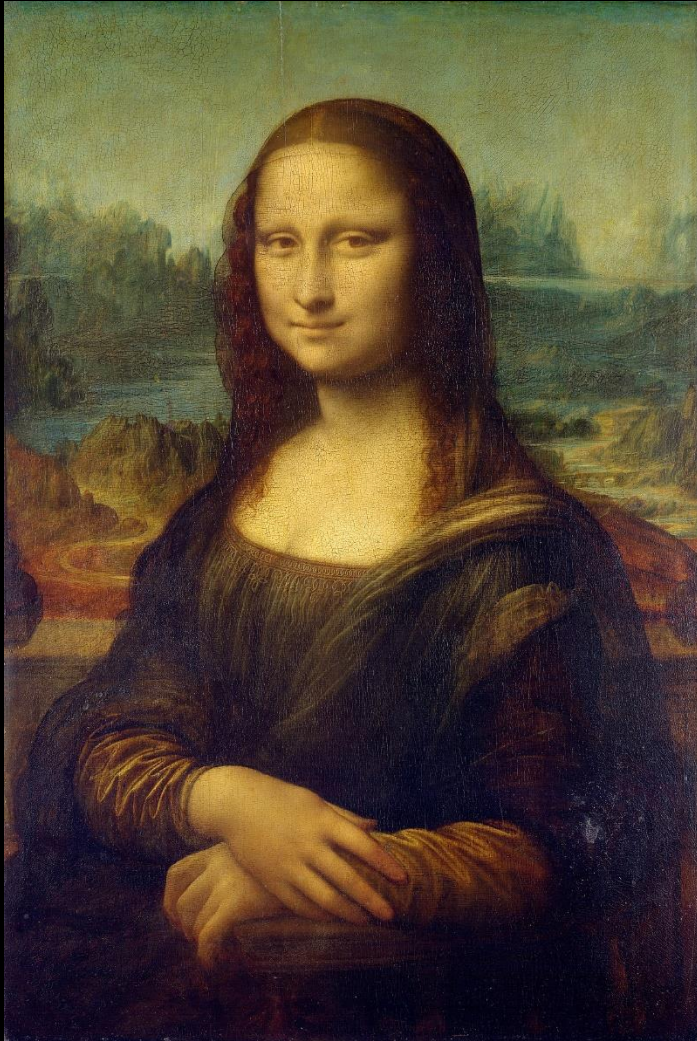
Freelance = Entrepreneur



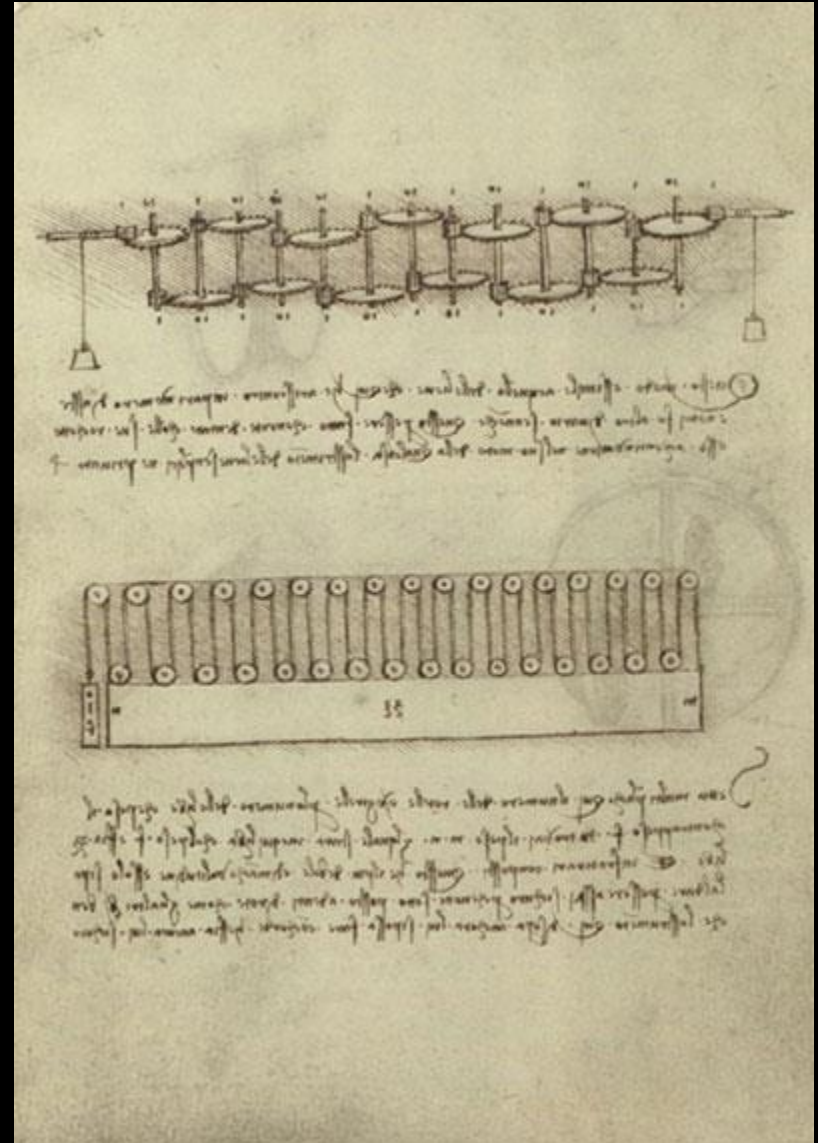
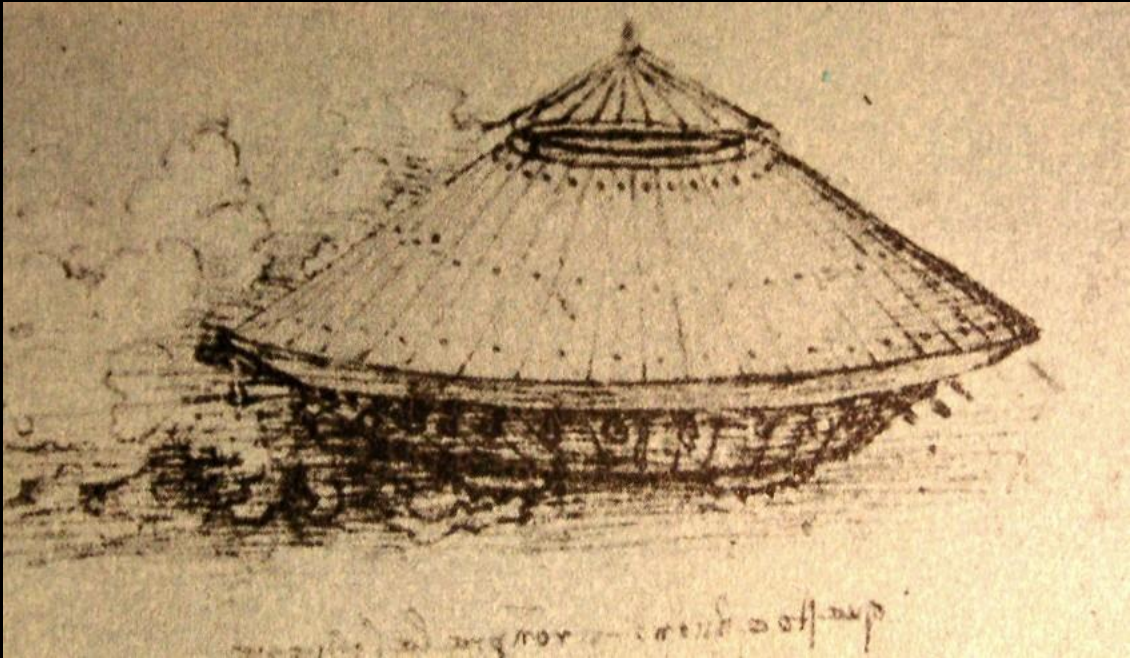
Adjunct at NHIA



Da Vinci



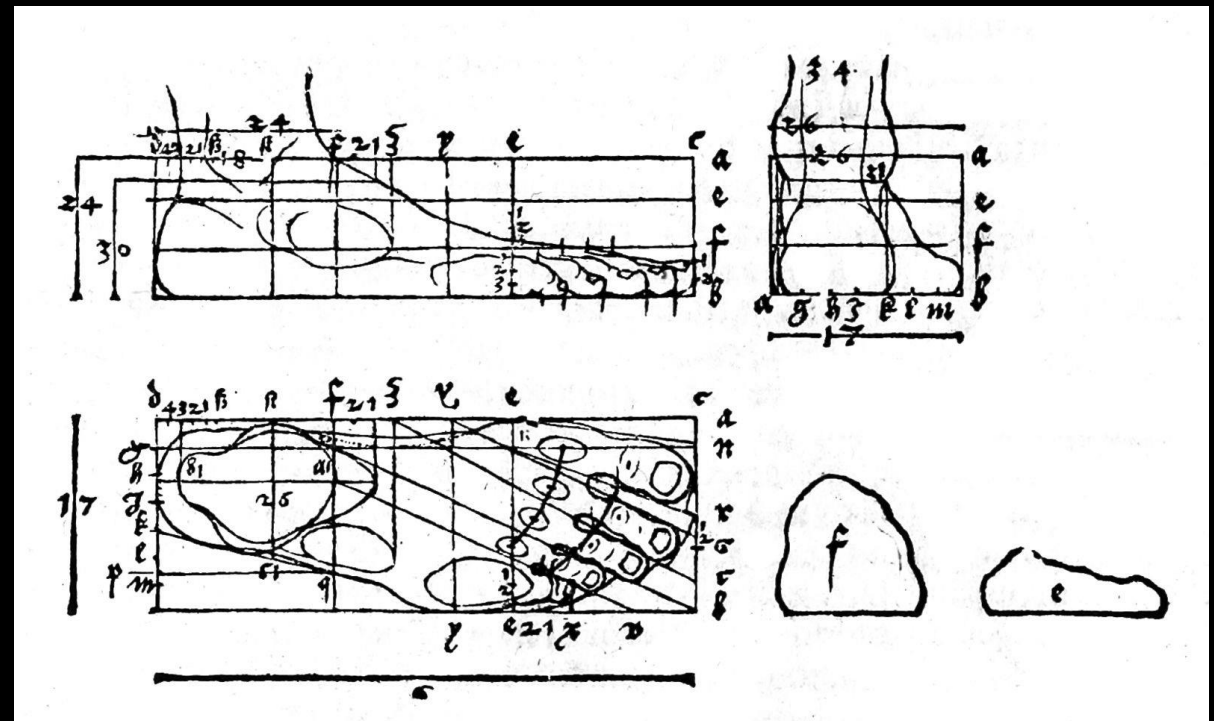
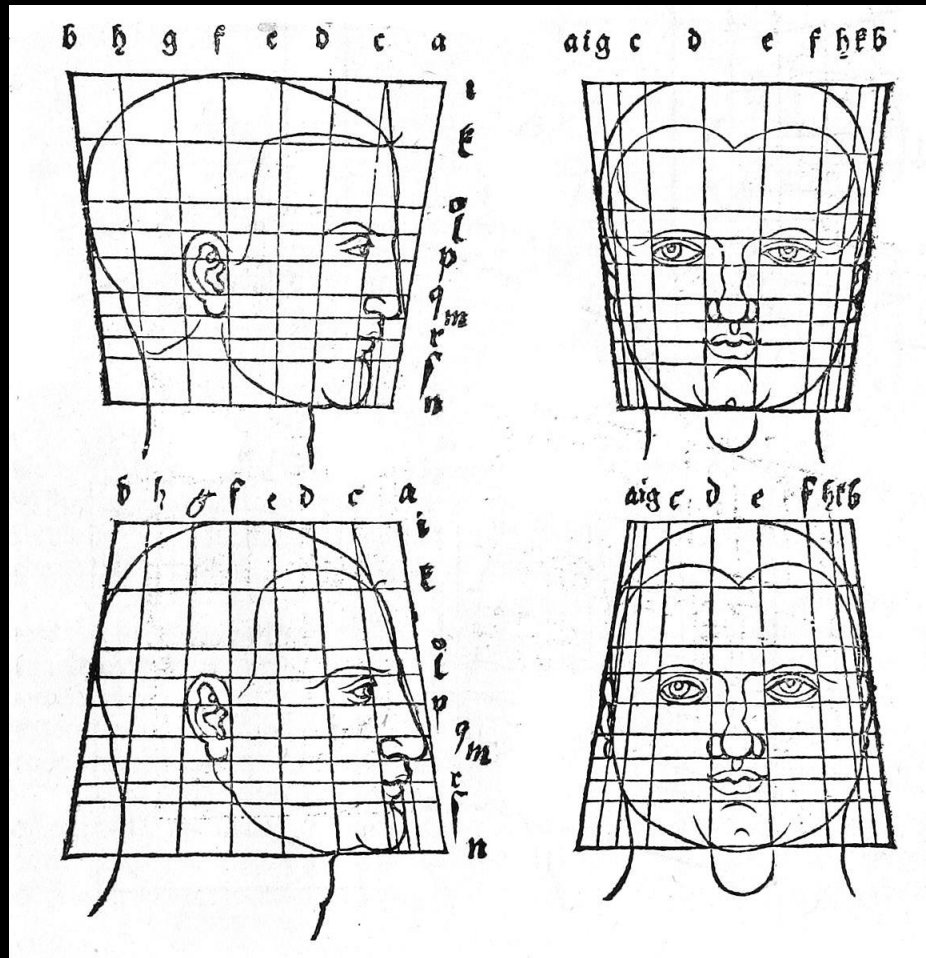
Da Vinci



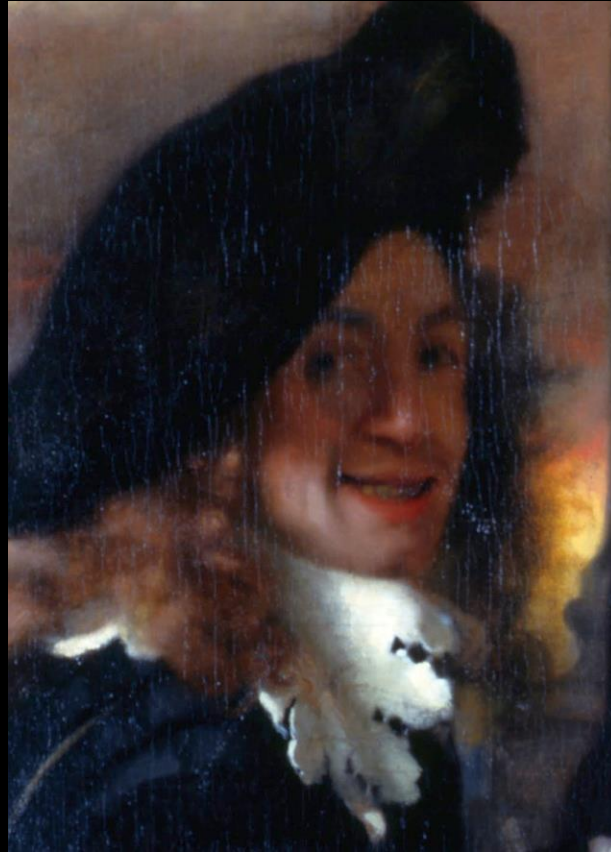
Albrecht Dürer



Albrecht Dürer



Johannes Vermeer



What
about
Older?



Caves of Lascaux



Chauvet Cave, France - Panel of the Big Lions

Photo Courtesy: Photo Website - Inside the Cave of Forgotten Dreams 03/10/2011



Chauvet Cave, France - Running Bison
Photo Courtesy: Time Magazine 02/13/1995



18 Months Ago



Current Clients

12 Classes A Week:

Peabody Properties with MA HUD

Montessori Schools

21st CCLC Manchester

Private Christian Schools

Summers



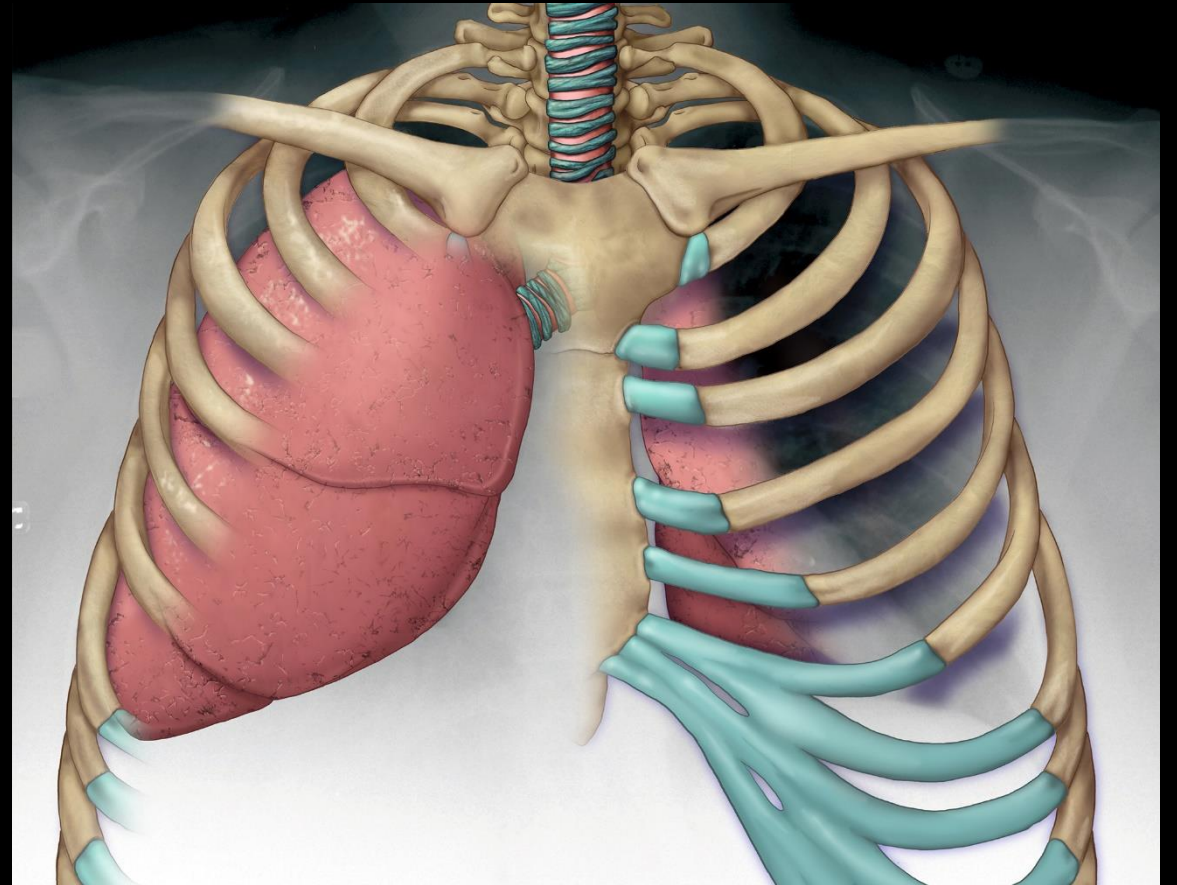
Biomedical Art

Textbooks

Scientific Research

Pharmaceutical Co.

Industrial Design



Ceramics

Developing glazes

Temp & hold cycles

Complex Structures

Kiln Construction



<https://mymodernmet.com/sublime-pottery-galaxy-ceramics/>

Ceramics and Science

Using and developing glazes (Chemistry)

Temperatures and hold cycles (Physics)

Complex Structures (Engineering)

Kiln Construction (Carpentry)

Glassblowing and Science

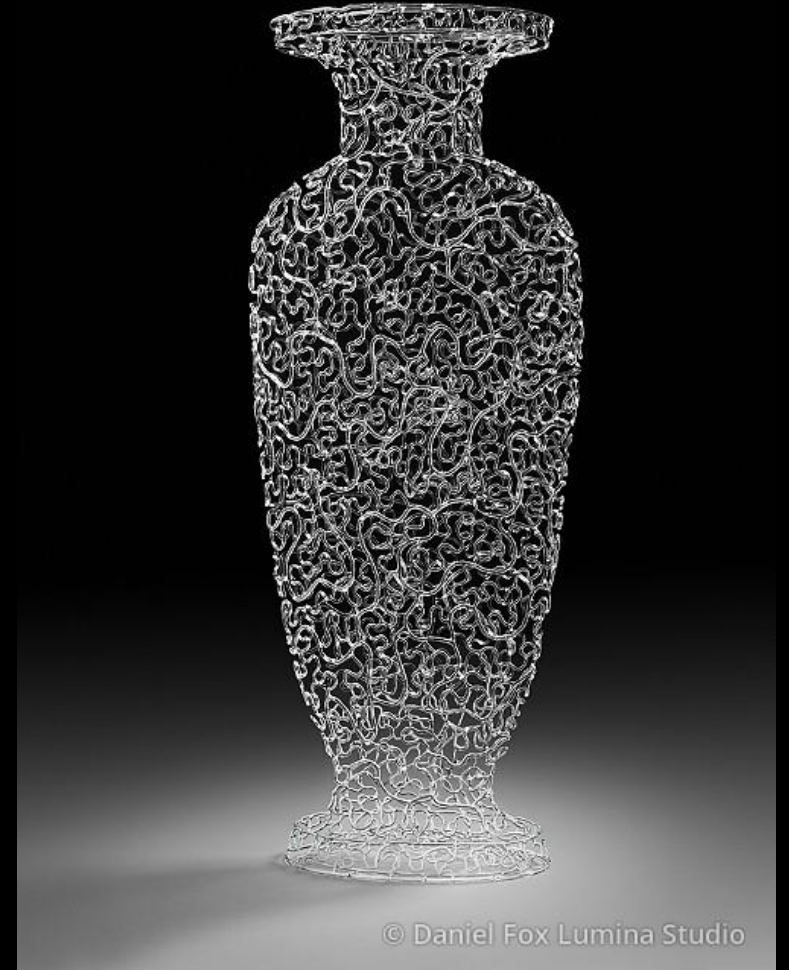
Using colors

Types of Glass

Temps & hold cycles

Complex Structures

Venting



© Daniel Fox Lumina Studio

Glassblowing and Science

Using colors (Chemistry)

Types of Glass (Crystal vs Automotive)

Temperatures and hold cycles (Physics)

Complex Structures (Engineering)

Venting (HVAC)

Future Jobs

Sustainable Art Supplies

Communication

Web/Code Design



Future Jobs

Game Design

User Experience Design

Artisanal Breweries

Sustainable Beautiful Growth



Today

Emphasis is on
Science (STEM).
Should be STEAM

Employers Complain!



Creative Thinking

Fredrik Harens
definition of
an idea is:
 $IDEA = P(K+I).$

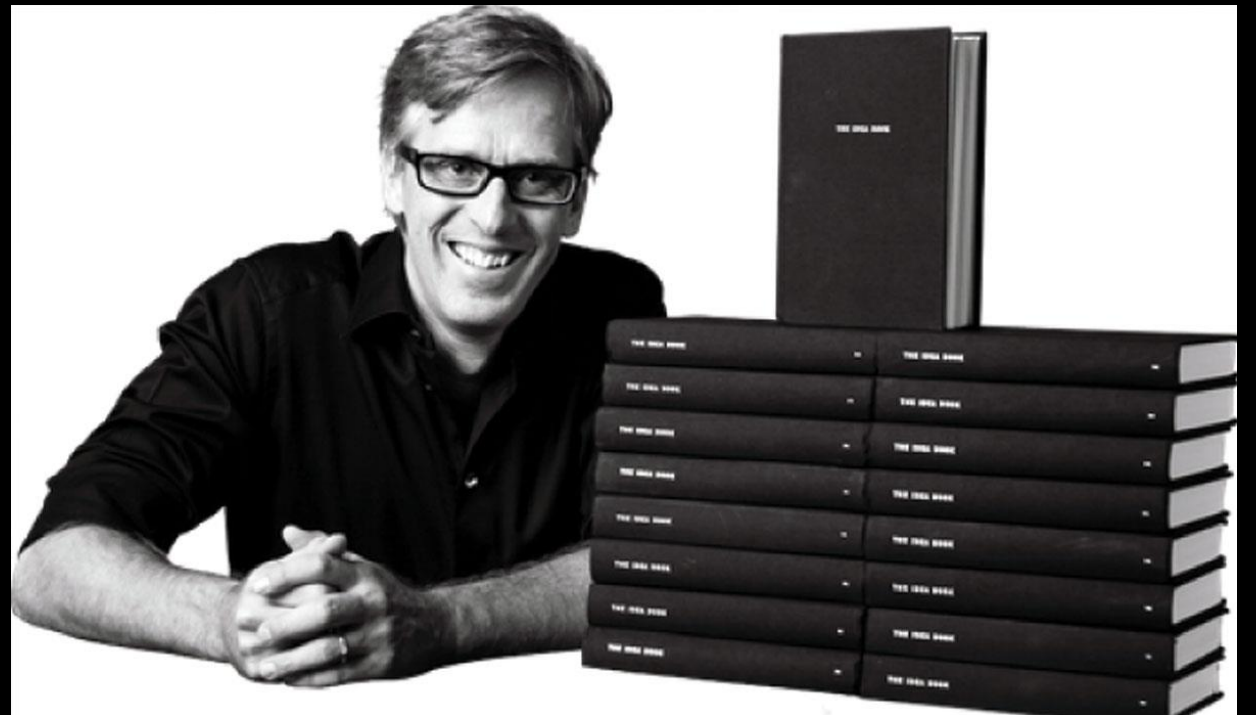


Image: <http://www.fredrikharen.com/>

The Hippies are
on to Something.



Room to Think

Juliet Funt

“Don’t rush
the cooking of
a great idea.”



Image: <https://www.leadingauthorities.com/speakers/juliet-funt>

Give them SCIENCE!

But don't call it that.



Give them Time!

Unstructured With Tools



Coloring Sheets?

Have them draw
it instead!



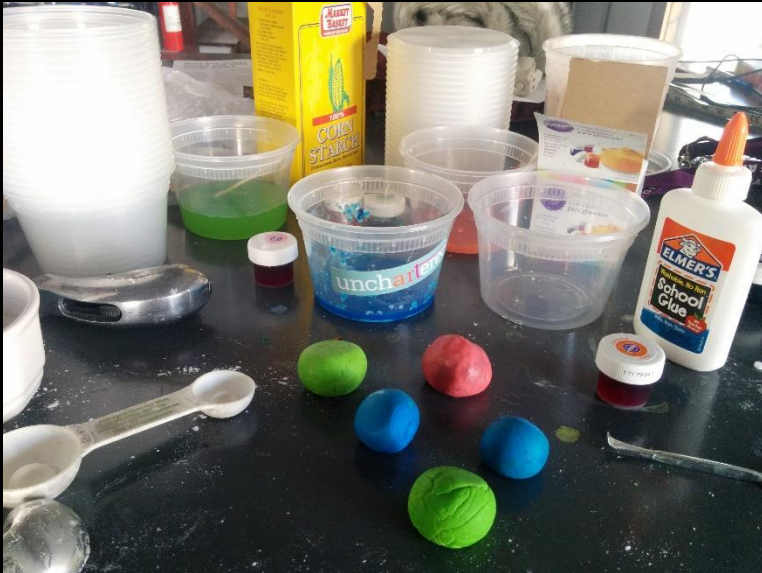
Coloring Sheets?

Or give them
scissors and
challenge them
to make it 3D.
Use unusual
dimensions.



Everything can be Science

Everything is physics, chemistry, color, psychology, biology and math.



Everything can be Art

Everything is hands-on, full of color,
making, creativity...



Questions?

I don't promise answers.
Maybe a conversation.

More Resources:

<http://www.fredrikharen.com/>

https://www.ted.com/talks/chip_kidd_designing_books_is_no_laughing_matter_ok_it_is

<https://www.youtube.com/watch?v=>

<https://blogs.scientificamerican.com/beautiful-minds/the-real-neuroscience-of-creativity/>

www.uncharted.org

www.bioscicreative.com

<https://www.ami.org/>

<http://www.idsa.org/>

<https://www.youtube.com/watch?v=94pCNUu6qFY>

<https://www.youtube.com/watch?v=cF4M2iIP7bg&feature=youtu.be>