

# ROCK SOLID

*Using Themes to Anchor  
(Elementary) Gifted Education*

## background info

Jeff  
Roberts

*Seneca Valley SD*

**Evans City  
Elementary/  
Middle School**

**PURPOSE**

Susan  
Gebhard

**CARE**



camp mom, mentor hikes, and  
the search for spirit rocks

# PURPOSE



**R**espect  
**O**urselves  
**C**ommunity  
**K**nowledge  
**S**ense of humor

# ROCK



'n roll

## grade 5

*Rock With You*  
Michael Jackson

## grade 4

*Rock the Boat*  
Hues Corporation



## grade 2

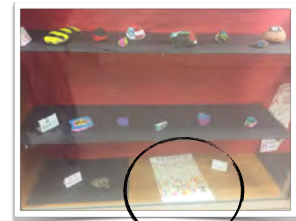
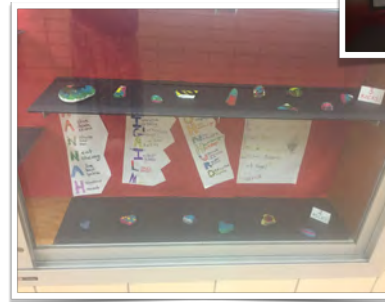
*Rock the Casbah*  
Chuck Berry

## grade 3

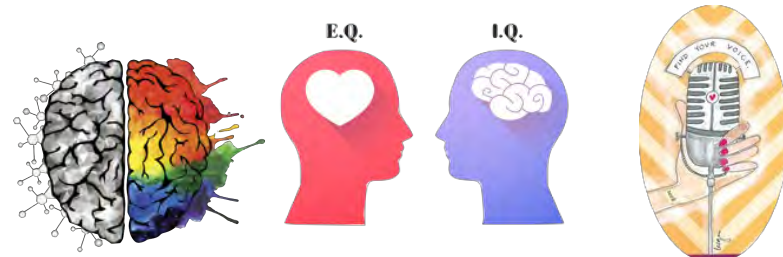
*Old Time Rock and Roll*  
Chuck Berry

## grade 1

*Sweet Little Rock and Roller*  
Chuck Berry



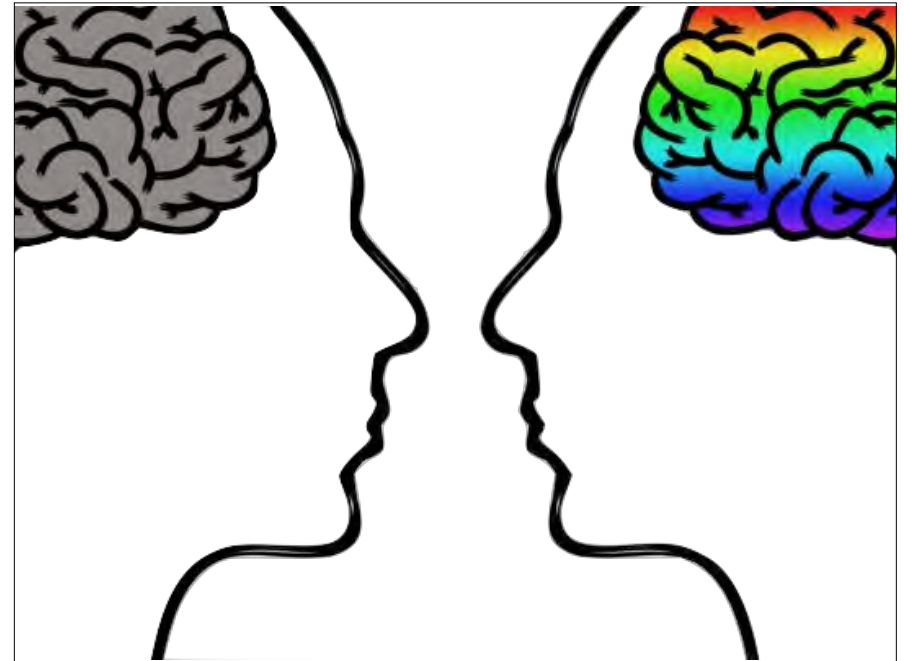
# high school themes



2016-17 **creativity**

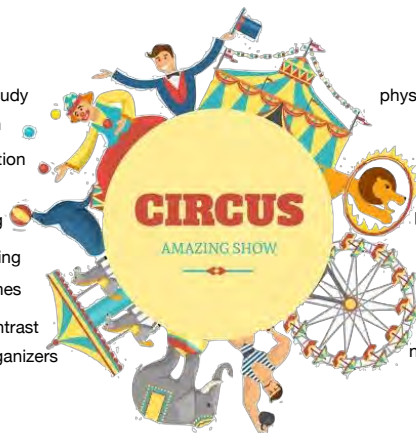
2017-18 **emotional intelligence**

2018-19 **find your voice**



# grade 2 existing science unit BALANCE AND MOTION

- HUMANITIES**
- vocabulary and word study
  - parts of speech
  - sentence construction
  - plot structure
  - strategy reading
  - mapping
  - timelines
  - compare/ contrast
  - graphic organizers



- STEM**
- physics of balance
  - geometry
  - money
  - probability
  - time
  - data analysis
  - numbers & operations
  - needs of living things

# circus design project



v1



v2



**CLOSED**



**RINGLING BROS. & BARNUM & BAILEY**



**STEM**  
world ecosystems  
animal habitats  
animal classification  
animal research  
coordinate pairs  
graphing and gridding  
measurement

**HUMANITIES**  
non-fiction & text features  
pourquoi  
summarizing/ synthesizing  
topical organization  
reference format  
map skills



**grade 1  
CARE**



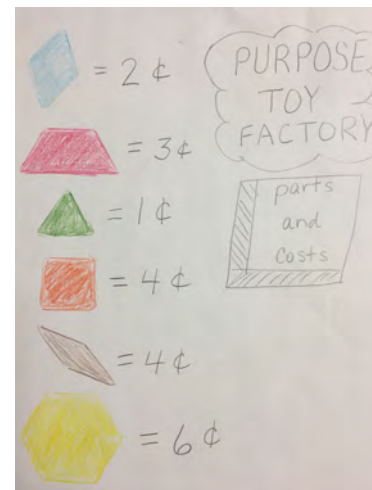
**HUMANITIES**  
figurative language  
alliteration  
sequence  
cause and effect  
world geography

**STEM**  
living v nonliving things  
ratios  
probability  
measurement  
perimeter  
area  
concepts of gravity

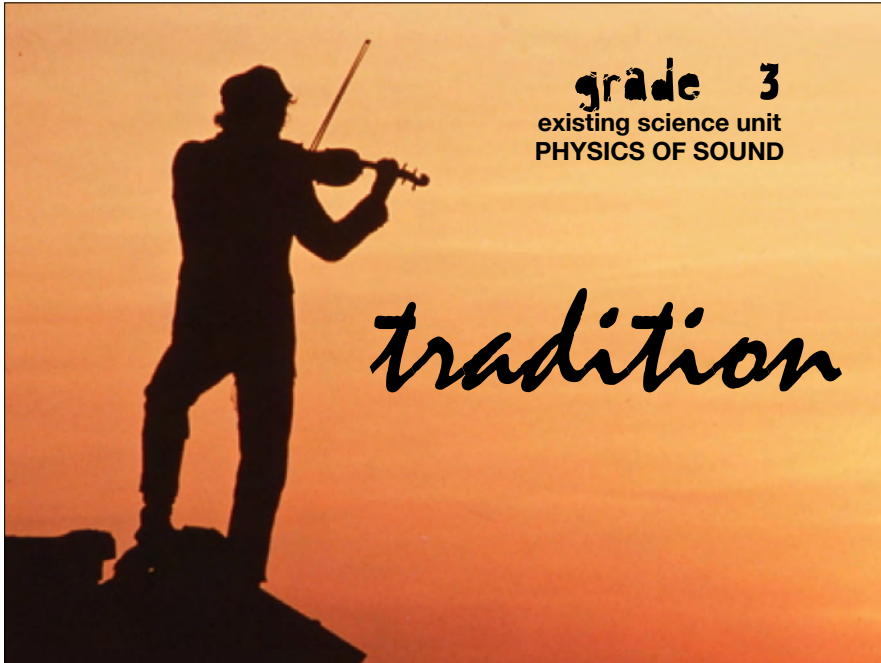
**HUMANITIES**  
COP  
onomatopoeia  
parts of speech  
sentence construction  
setting- past v present  
cultural values  
gender stereotyping

**STEM**  
number sense  
comparing/ordering  
money  
number operations  
data collection  
graphing  
timelines

**design projects**

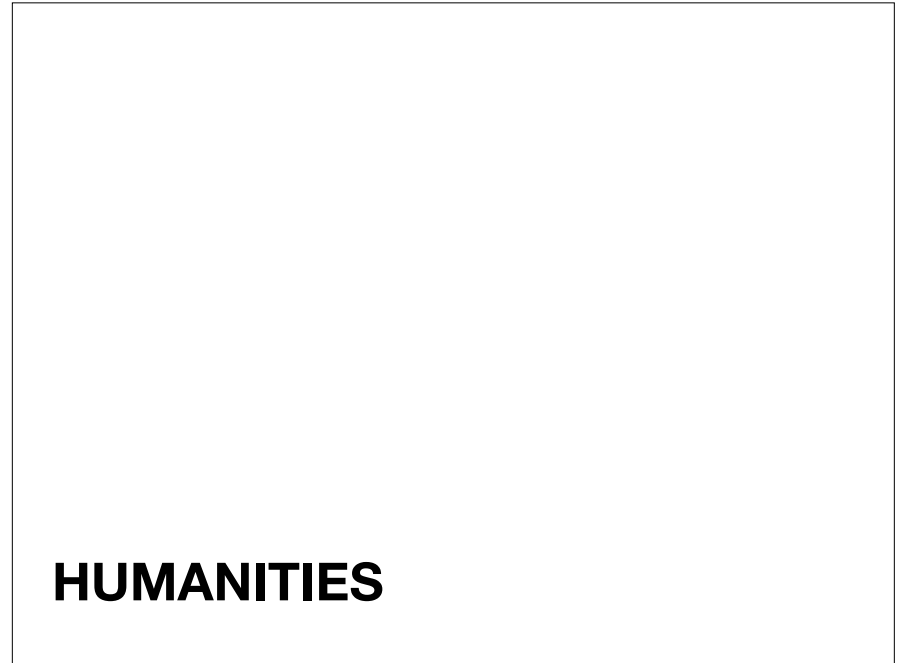


**a parachute  
for a pig**

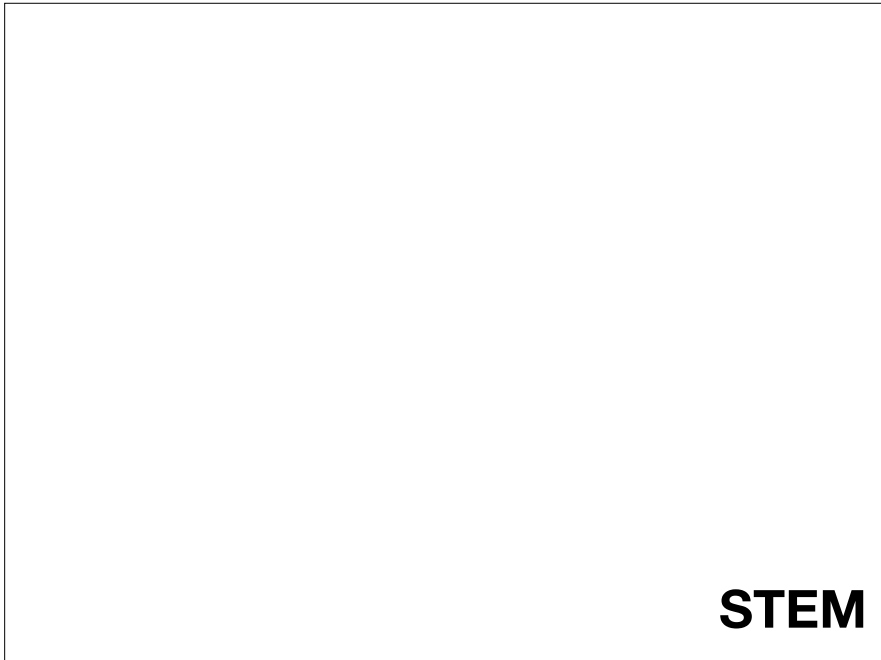


**grade 3**  
existing science unit  
PHYSICS OF SOUND

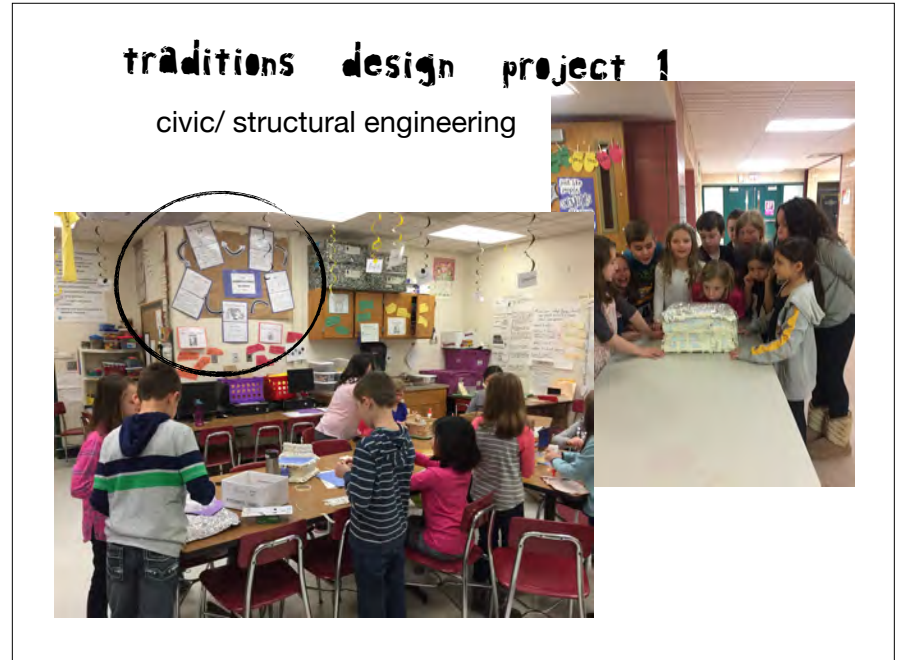
*tradition*



**HUMANITIES**



**STEM**



**traditions design project 1**

civic/ structural engineering

# traditions design project 2



v1

v2

# grade 4

## existing science unit BUOYANCY

biographies  
people packages  
**communications**  
poetry technical writing  
rhyme scheme

scientific method  
measurement  
**science**  
buoyancy data analysis  
mean, mode, median



plane geometry  
NETS  
**math**  
perimeter, circles  
area, volume icosohedrons  
algebraic equations

logistics of route-mapping,  
scheduling, timetable  
**spatial reasoning**  
NETS coding  
Cargo Bot

### thinking skills

design thinking cycle  
package projects

# design projects packaging engineering



**PACKAGING SCAVENGER HUNT**

Document each item on your checklist with a photograph. We will analyze and compare different types of packages.

Label from:	Brand name:
What is the product?	What is the purpose of the package?
What is the material used to make the package?	What is the shape of the package?
What is the color of the package?	What is the size of the package?
What is the weight of the package?	What is the volume of the package?
What is the texture of the package?	What is the smell of the package?
What is the taste of the package?	What is the sound of the package?
What is the feel of the package?	What is the look of the package?
What is the use of the package?	What is the history of the package?
What is the future of the package?	What is the past of the package?



tea bag box



chip ship

packaging scavenger hunt  
design a product/ packaging



egg pack and drop

# grade 5

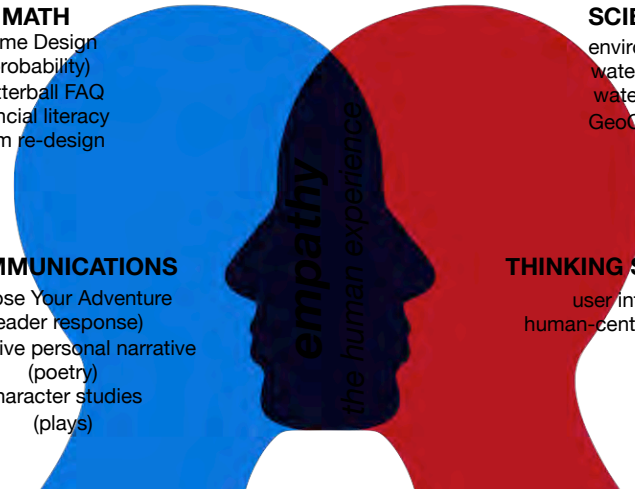
## existing science unit WATER QUALITY

**MATH**  
Game Design  
(probability)  
Butterball FAQ  
financial literacy  
room re-design

**SCIENCE**  
environmental  
water access  
water quality  
GeoChallenge

**COMMUNICATIONS**  
Choose Your Adventure  
(reader response)  
alternative personal narrative  
(poetry)  
character studies  
(plays)

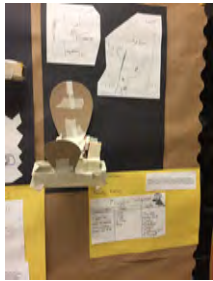
**THINKING SKILLS**  
user interface  
human-centered design





## design projects

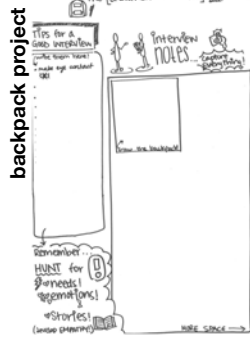
human-centered design  
focus on user interface



chair design



hamster habitat



## contact Jeff

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Gifted Education & Student Support

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X1635

724-624-1572

*If you think you can't learn  
and have fun at the same time,  
then I don't think you have  
a good understanding of either.*

Randy Pausch, CMU  
*The Last Lecture*

***contact Susan***

**Dr. Susan Gebhard  
aka "Dr. G."**



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