

CSI Culture
Environment
Brain-based
Projects
Real World



Are you a maker? Do you learn better in a hands-on way?

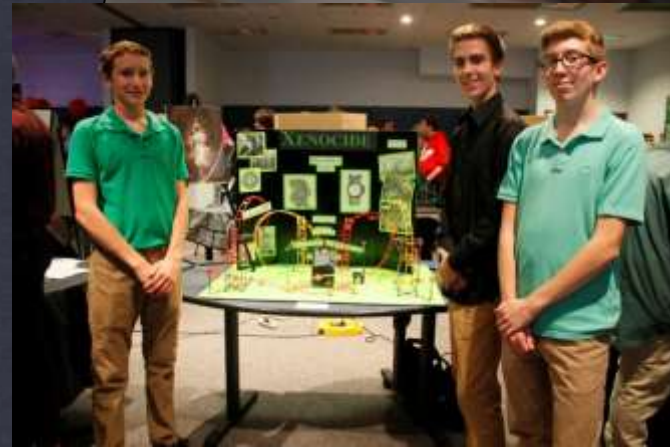


Geometry is Everywhere

Students present geometric terms in medium of choice.



Do you enjoy working as part of a team?



...and are you willing to explore different solutions to problems?

Are you interested in learning and applying industry grade technology?



Do you like to see the connection between school and the “real world”?



NAIAS 2016 Detroit



**Smart Vehicle Technologies
21st World Congress**



TEDx Detroit



**Women in S.T.E.M.
General Dynamics**



**Dr. Ed Catmull
Co-Founder of Pixar and
President of Disney Animation**

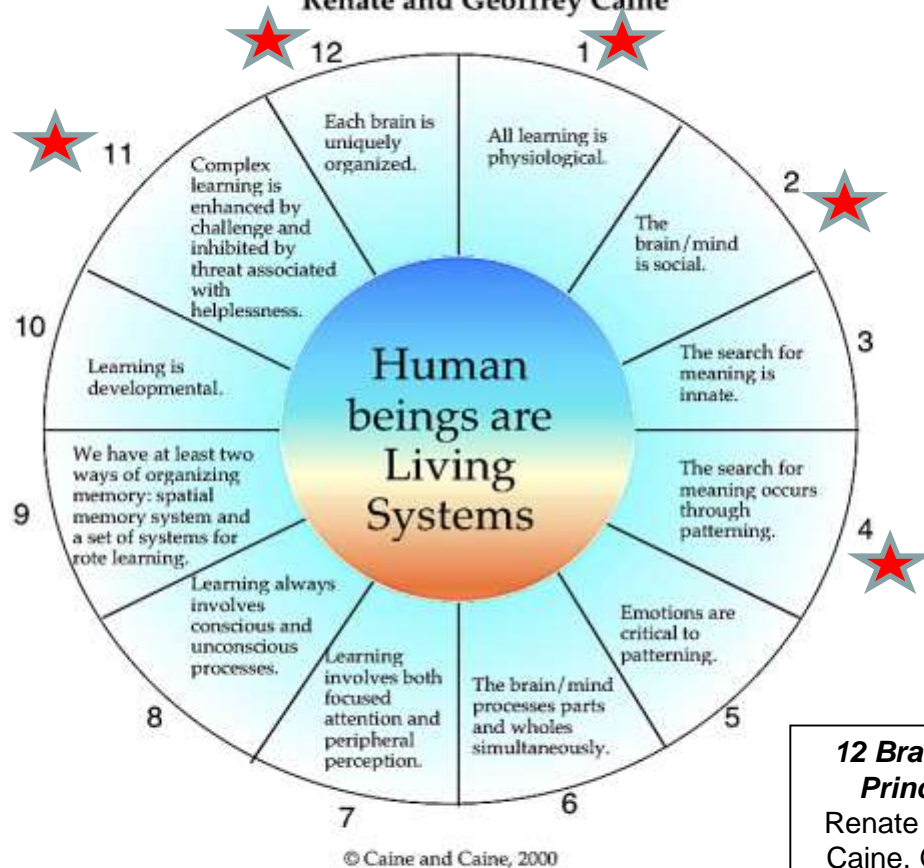
**If you answered “yes”
then CSI might be
the place for you!**

Environment,
and
instructional
practices
are based on
how the brain
learns best.

12 Natural Learning
Principles

The Brain/Mind Learning Principles

Renate and Geoffrey Caine



12 Brain/Mind Principles

Renate Numella Caine, Geoffrey Caine, Carol McClintic, Karl Klimek

Three interactive elements emerging out of the principles



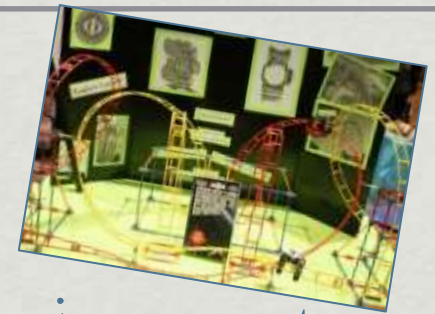
Cross-Curricular Projects: The DPS Project

9th grade students collaborate to research and create an original beverage product, container, and marketing plan.

| English | Geometry | Design Principles |
|---|--|--|
| <ul style="list-style-type: none">*Group research report on HOW beverage is a healthier*Communicate ideas clearly*Persuasive presentation | <ul style="list-style-type: none">*Scale ratios*Surface Area*Volume*Production Costs*Profit margin | <ul style="list-style-type: none">*Create an original logo for their company•Create a visual display•Physical prototypeCAD 3D Model |



Cross-Curricular Projects: Roller Coasters



10th & 11th grade students work in groups to design, create & pitch an attraction with a literary theme to “investors”.

| English | Algebra | Engineering | Digital Media |
|--|--|---|---|
| <ul style="list-style-type: none">*Collaborate to develop literary theme throughout ride and promotional materials*Communicate ideas clearly*Persuasive, professional presentation and marketing materials | <ul style="list-style-type: none">*Construct a graph of ride’s height over time and model parts of ride with linear, quadratic, and polynomial functions | <ul style="list-style-type: none">*Research, design and model an amusement ride | <ul style="list-style-type: none">*Create an effective promotional campaign with clear thematic links*Analyze the elements and principles of art in campaign*Utilize appropriate technology |



Parent Response

A recent parent survey showed

- 91% say that CSI “has had an impact on improving my child’s motivation & effort in school”
- 98% agree that CSI “helps my child meet state academic standards”
- 94% state that CSI “encourages my child to attend college”

Where are CSI graduates?

98% have gone on to post-secondary study

- Michigan Tech
- College for Creative Studies
- Michigan State University
- University of Michigan
- Kettering
- Lawrence Tech
- Saginaw Valley
- Wayne State University
- Kendall College of Art and Design
- Depaul University
- Full Sail University
- California College of the Arts
- Central Michigan
- Grand Valley
- Western Michigan
- Oakland
- Ferris State
- University of Detroit Mercy
- Savannah College of Art and Design
- Macomb Community College*
- MAT2 Program

*Articulated college credit available in all three pathways