







GAIL HERNANDEZ

EDUCATOR, ARTIST & MODERN-DAY MARY POPPINS, WITH AN EYE FOR MAGIC IN ORDINARY MOMENTS

DR. BEN CORBIN

MAD SCIENTIST, EXPLORER, PILOT & RESIDENT BADASS WHO JUST ADVISES NASA AND POTUS...NBD.

RACHEL FLOYD

IMPOSSIBLE OPTIMIST, DAREDEVIL, FORMER EDUCATOR TURNED STRATEGIST WHO DREAMS ON A BUDGET





#### TOP DEFINITION



#### Creative

What teachers call you when they don't want to say you are a dumbass.

Your son, Jimmy, is a very, well, ...creative... boy.

by Danny the girl August 26, 2004







# CREATIVES DRAW ON COMPLEX BODIES OF KNOWLEDGE TO SOLVE SPECIFIC PROBLEMS.



#### TOP DEFINITION

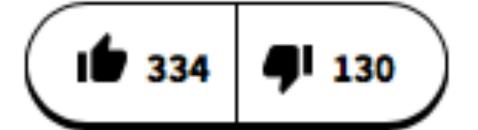


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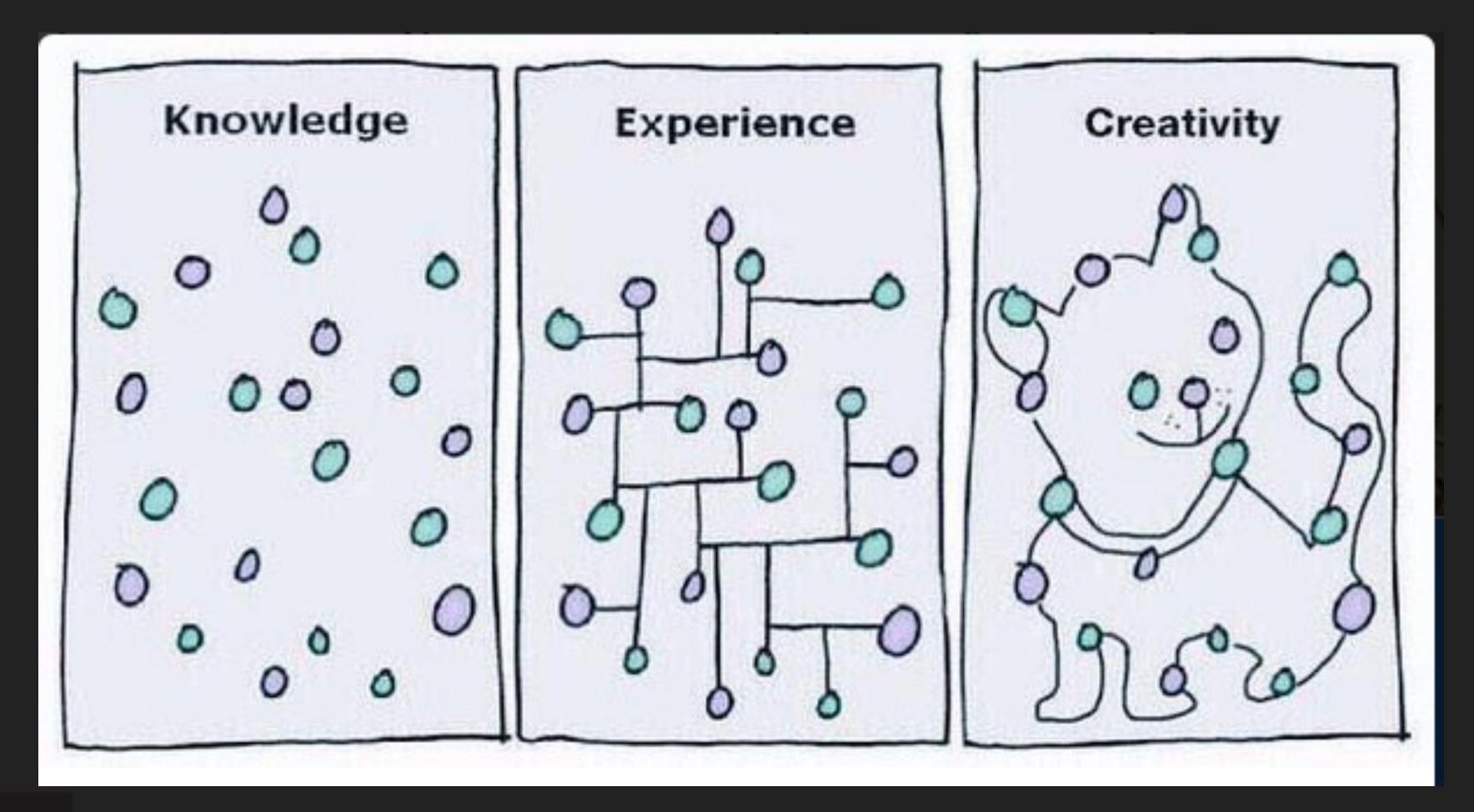
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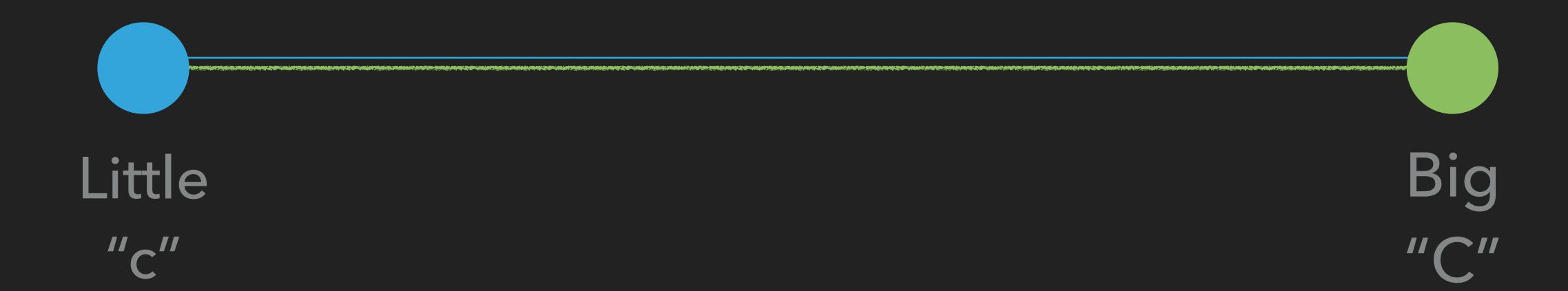


## CATRIEVITY IS AUBOT MNAIKG CNONETCNITOS IN THE BARIN.





#### CREATIVE IDEAS ARE ON A CONTINUUM.





If you look at what produces learning and memory and well-being, play is as fundamental as any other aspect of life.

DR. STUART BROWN

#### WHAT IS PLAY?







#### ...TO ENTERTAIN = THEY ARE HAVING FUN.



#### ...TO ENGAGE = THEY ARE CONNECTING.





#### ...TO EXPLORE = THEY ARE ASKING QUESTIONS.



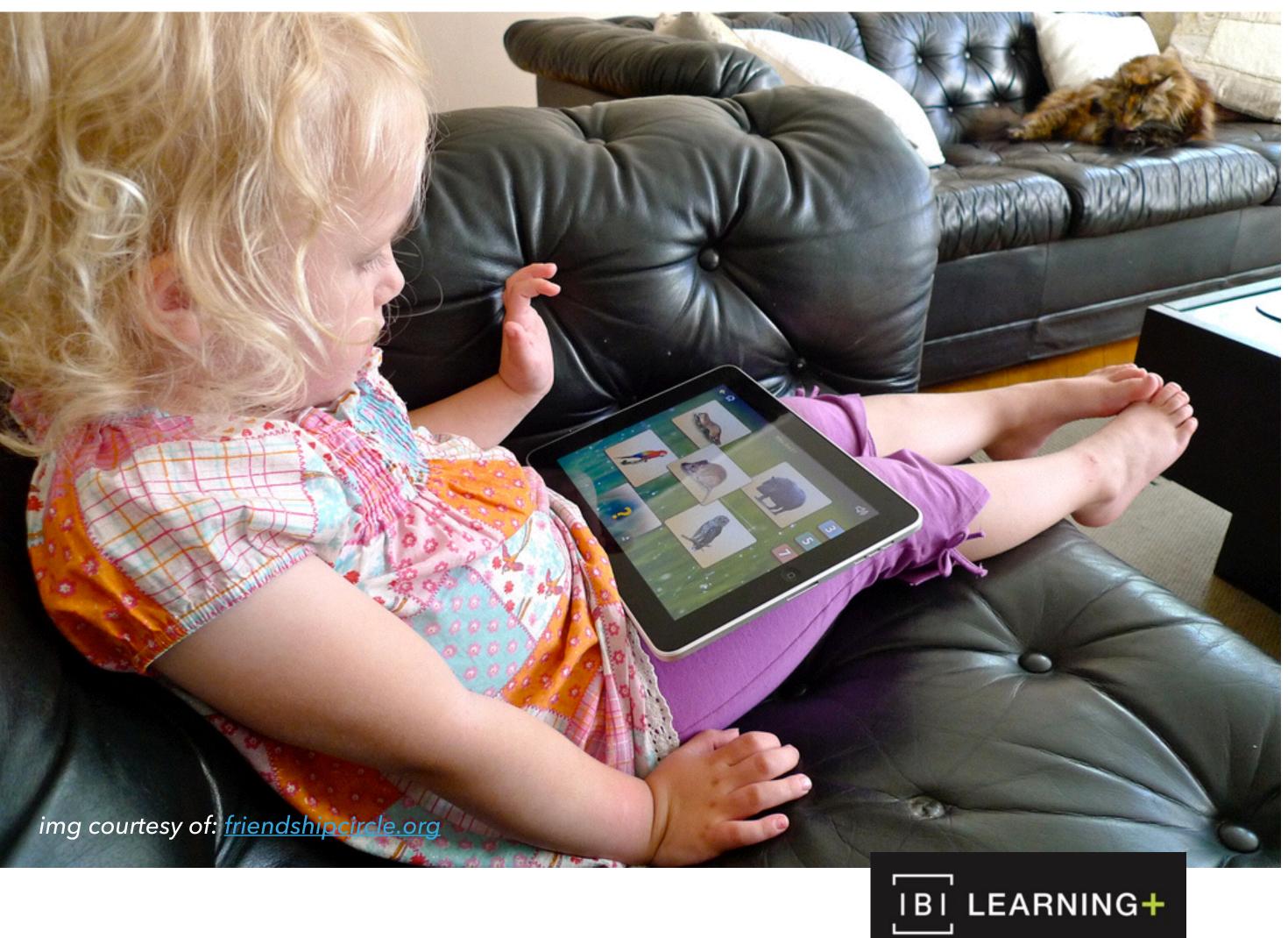




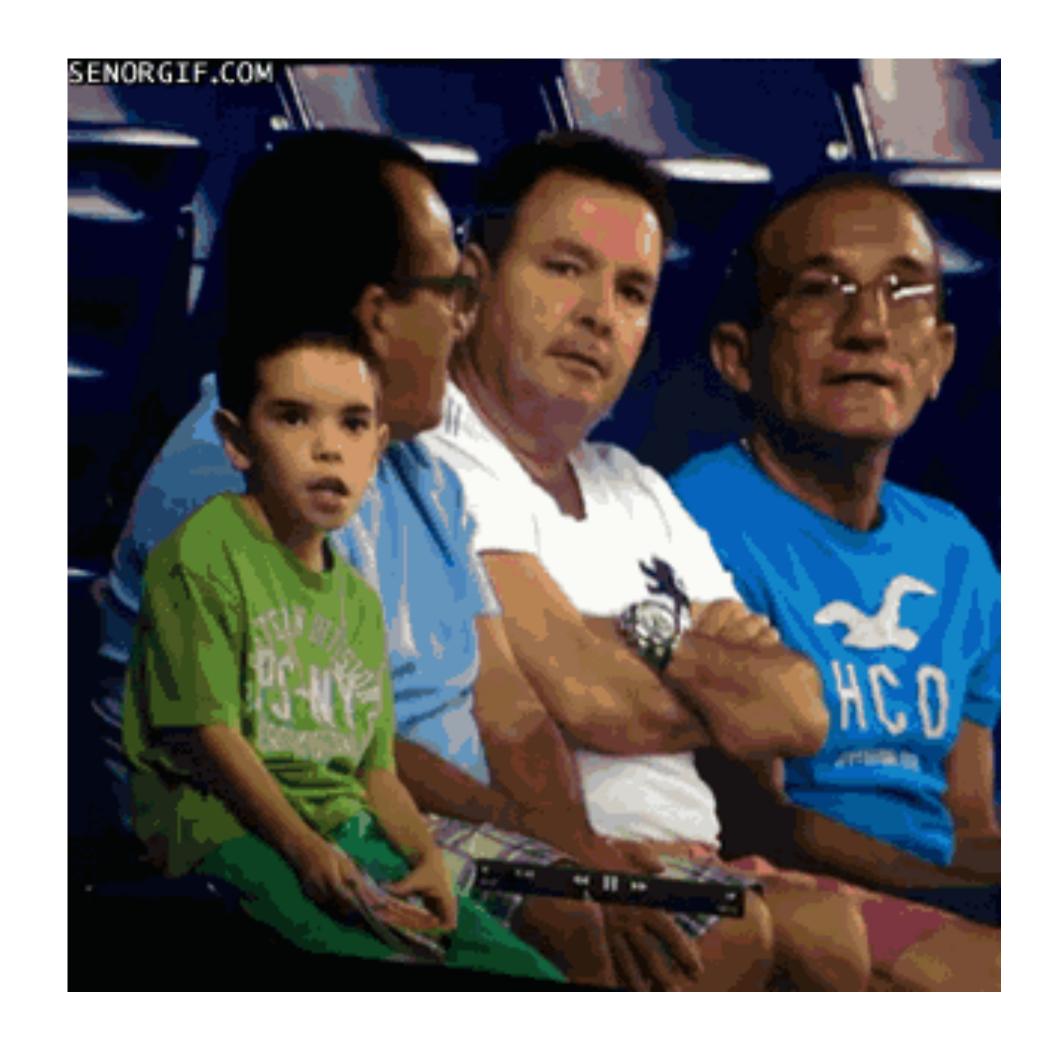


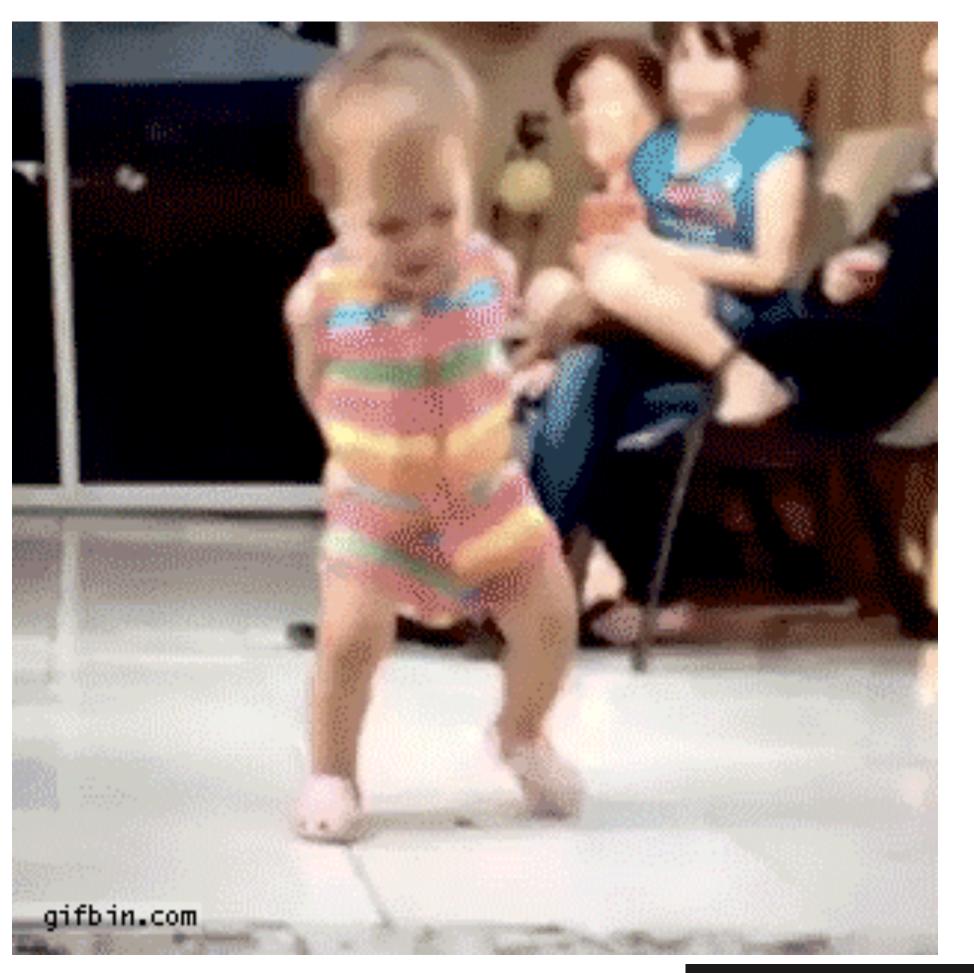
#### ...TO EDUCATE = THEY ARE LEARNING.





#### WHAT HAPPENS TO PLAY AS WE MATURE?







#### **CUTTING OUT RECESS**





#### **DEGRADATION OF THE ARTS**







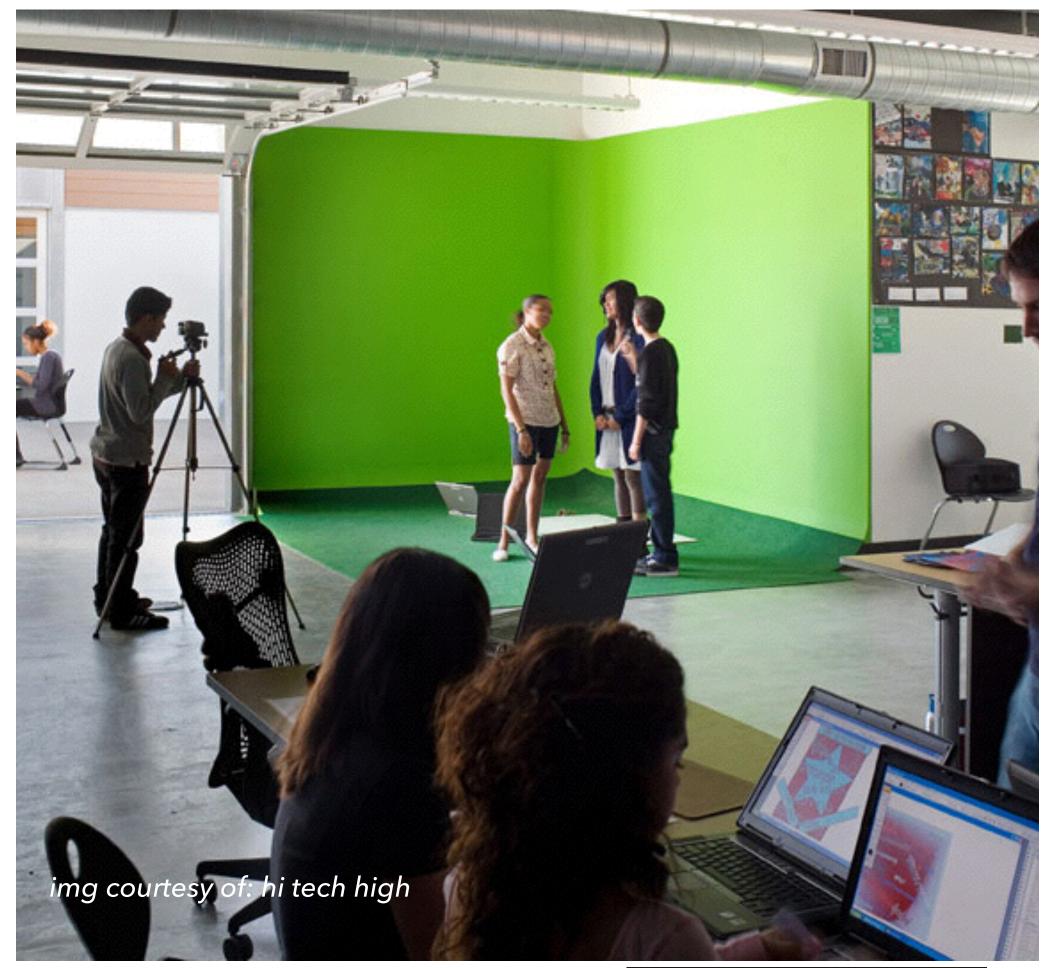
## ALLOW FOR RECESS (BUILD IT INTO SCHEDULES AND SPACE).





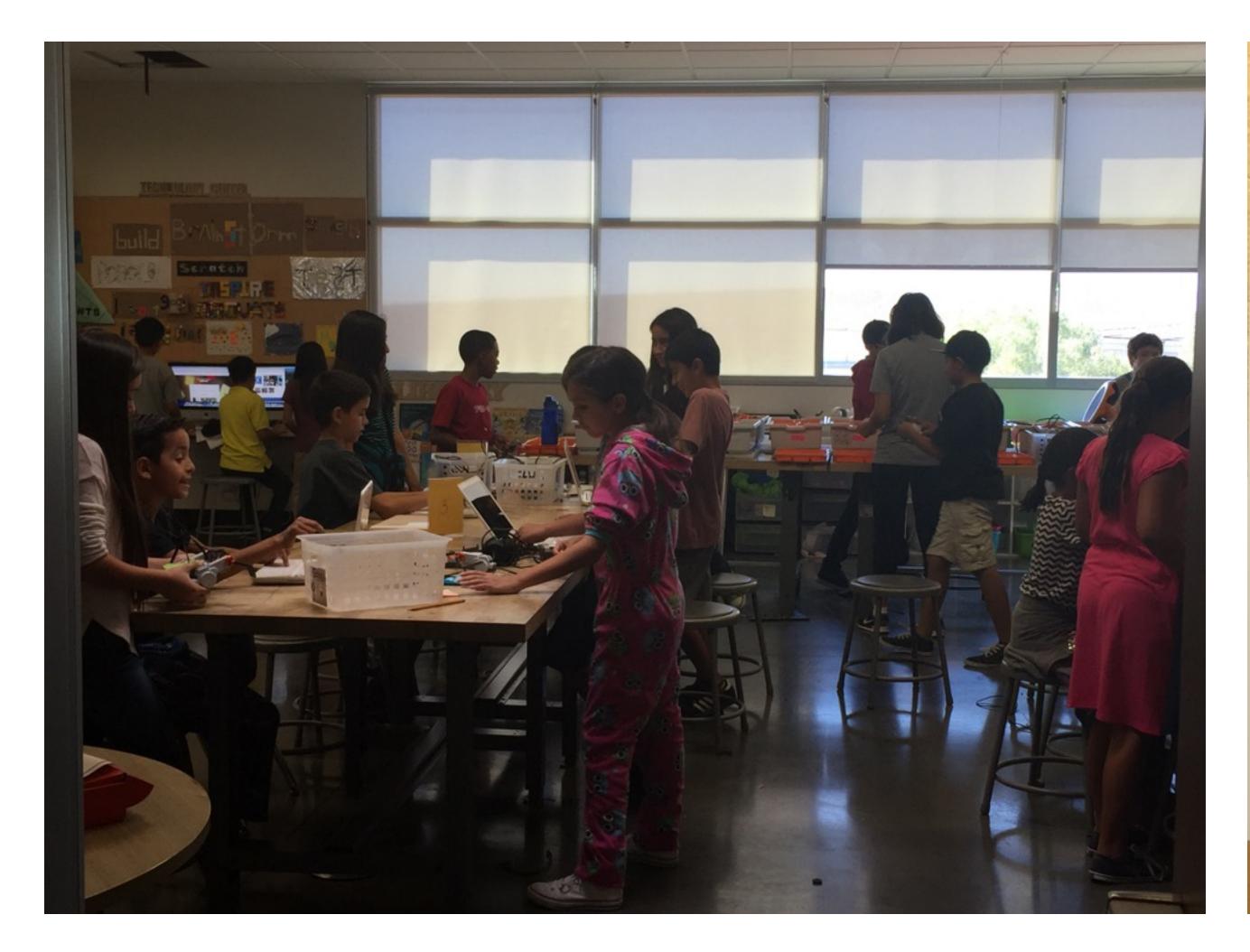
#### ENCOURAGE INTEGRATION OF THE ARTS IN STANDARD CURRICULUM (AND SPACE).

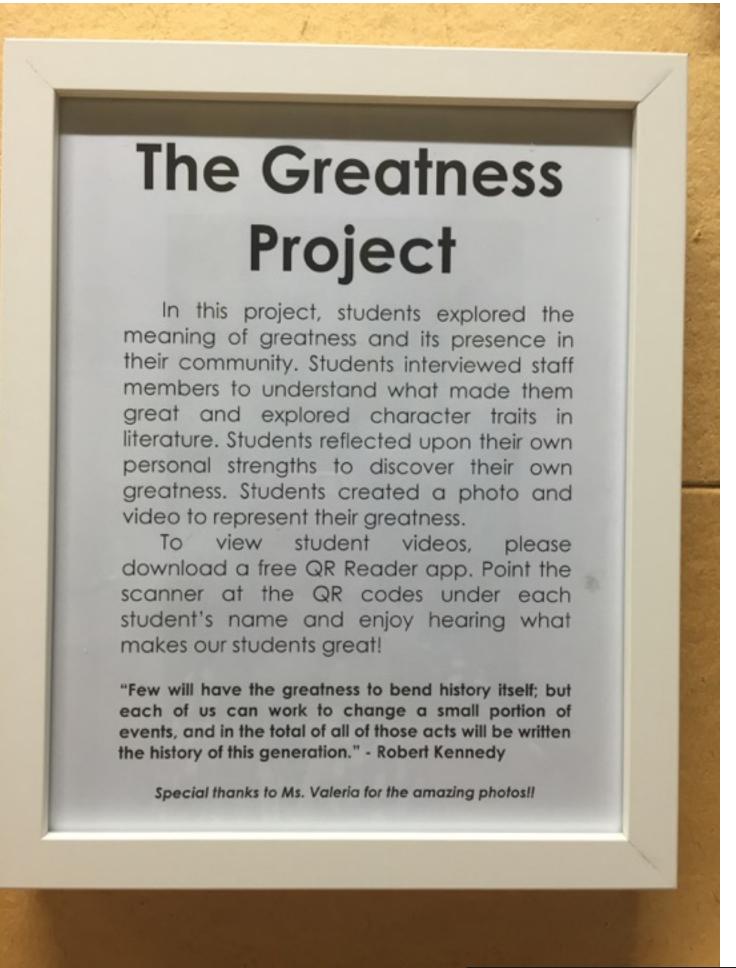






#### DESIGN AN ENVIRONMENT THAT ENCOURAGES PLAY, AND THEREFORE, CREATIVITY.







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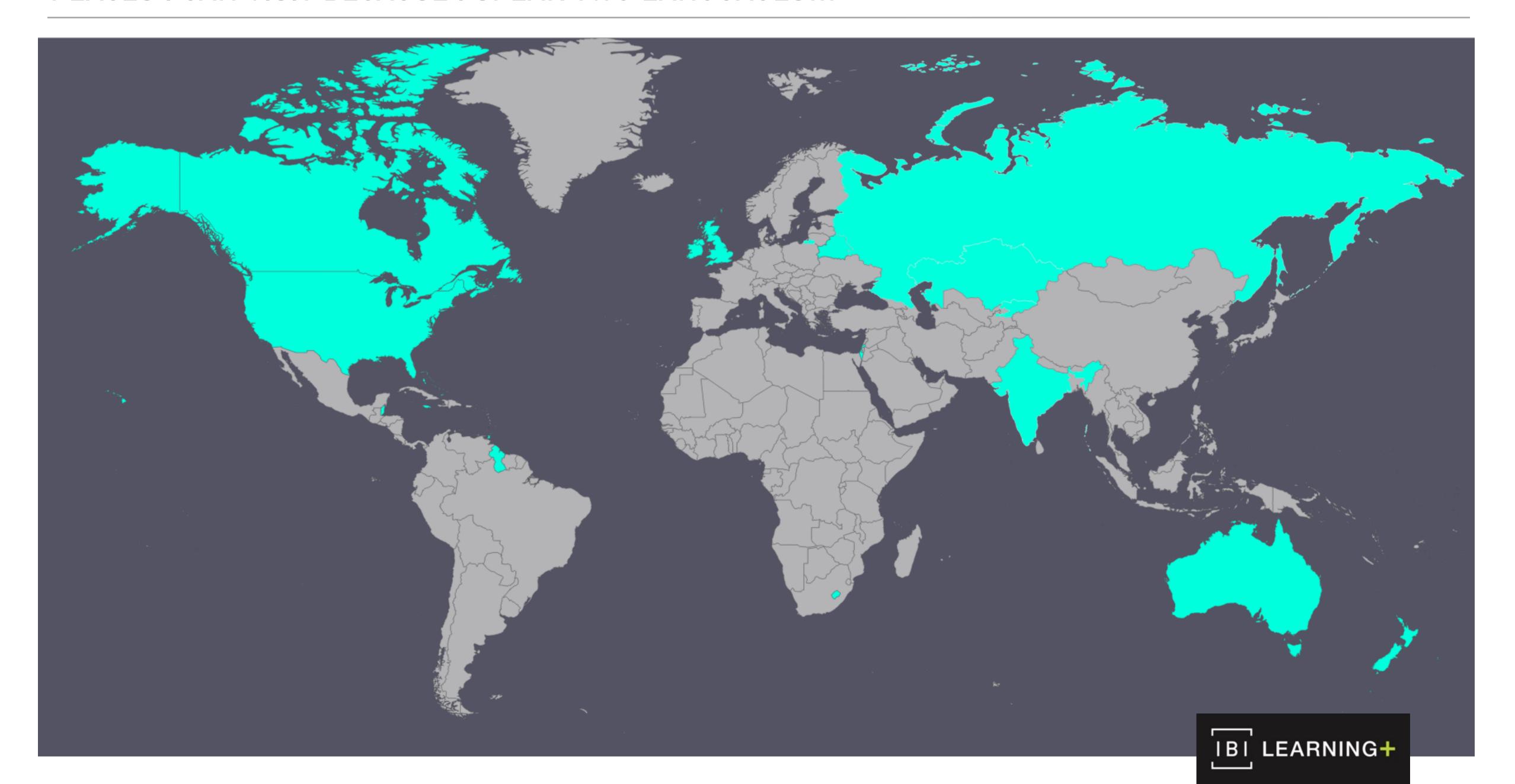




It is the tension between creativity and skepticism that has produced the stunning and unexpected findings in science.

CARL SAGAN

#### PLACES I CAN VISIT BECAUSE I SPEAK TWO LANGUAGES...



SCIENCE: Acoustics, Aeronautics, Agronomy, Anatomy, Anthropology, Archaeology, Astronautics, Astronomy, Astrophysics, Bacteriology, Biochemistry, Biology, Botany, Cardiology, Chemistry, Cosmology, Crystallography, Ecology, Embryology, Endocrinology, Entomology, Enzymology, Forestry, Genetics, Geodesy, Geophysics, Hematology, Histology, Horology, Hydrology, Ichthyology, Immunology, Linguistics, Mechanics, Medicine, Meteorology, Metrology, Microbiology, Mineralogy, Mycology, Neurology, Nucleonics, Nutrition, Oceanography, Oncology, Optics, Paleontology, Pathology, Petrology, Pharmacology, Physics, Physiology, Psychology, Radiology, Robotics, Seismology, Spectroscopy, Systematics, Thermodynamics, Toxicology, Virology, Volcanology, Zoology

**TECHNOLOGY:** Audio Technician, Cloud Application Architect, Computer Systems Analyst, Database Administrator, Electrician, EMT, Information Security, Information Technology, Lab Technician, Machining, Manufacturing, Network Administration, Pharmacy Technician, Programmer, Software Developer, Software Engineering Analyst, Surgical Technologist, Veterinary Technician, Web Development, Welding, Wiring,

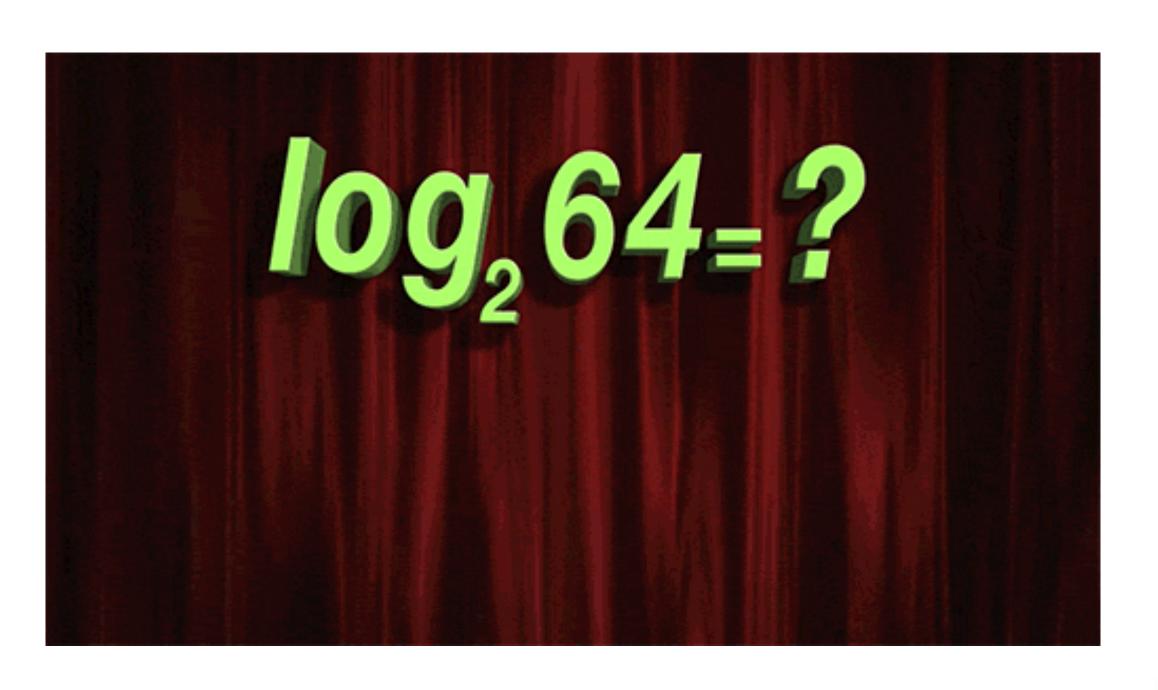
**ENGINEERING:** Acoustical, Aerospace, Agricultural, Architectural, Avionics, Biochemical, Biological, Biomedical, Biomolecular, Civil, Combat, Component, Computer, Computer-aided, Construction, Corrosion, Cryptographic, Electrical, Electronic, Energy, Environmental, Fluids, Geotechnical, Industrial, Information, Instrumentation, Management, Manufacturing, Materials, Mechatronics, Military, Mining, Modeling, Molecular, Nano, Nuclear, Optical, Optomechatronics, Petroleum, Power, Power Plant, Process, Production, Railway, Safety, Simulations, Sports, Structural, Systems, Teletraffic, Textile, Thermal, Transport, Vehicle, Web, Water Resources

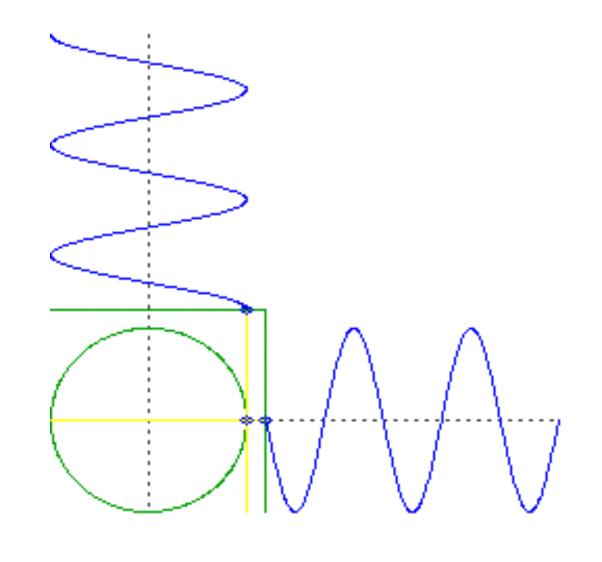
**OTHERS:** Accounting, Actuary Science, Animation, Business, Commodities Exchange, Economics, Finance, Insurance, Inventory Strategy, Investment Banking, Logistics, Music, Quantitative Finance, Patent Law, Public Health, Public Policy, Real Estate, Risk Assurance, Risk Analysis, Statistics, Stock Brokerage, Tax Examination, Technical Writing,

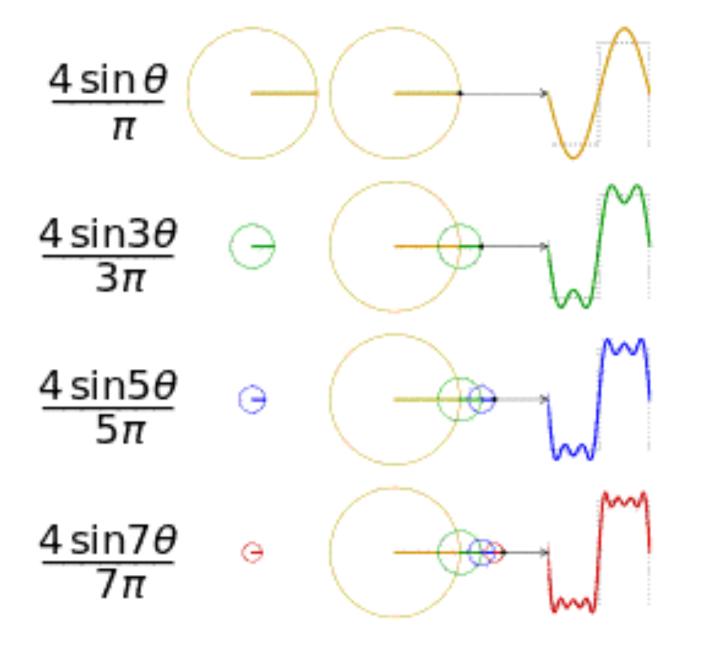
COLD HARD TRUTH: MATH IS THE LANGUAGE AT THE CORE OF EVERY SCIENCE, TECHNOLOGY, AND ENGINEERING CAREER.

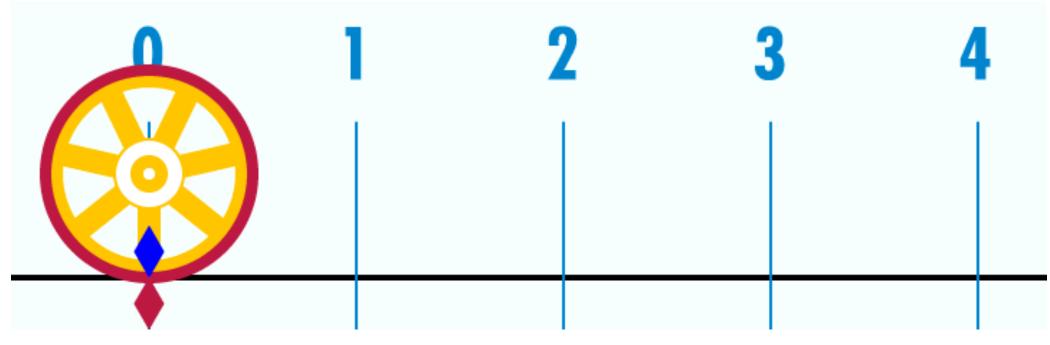


#### TEACHING COMPLEX MATH IS EASIER THAN EVER.

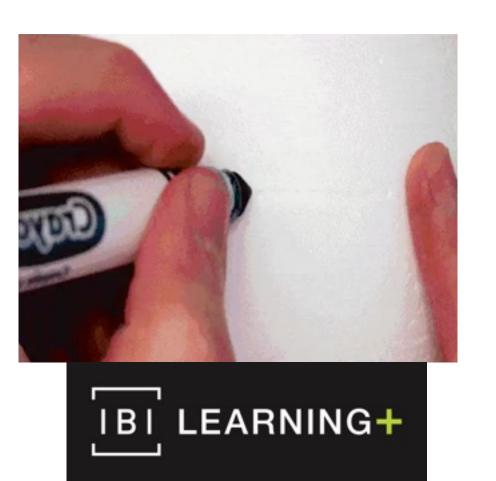








HOW TO CREATE AN ELLIPSE



#### GIVE STUDENTS A REASON TO LEARN SOMETHING.

- Project-Based Learning
- Built in Rewards for Completion
  - ▶ Gives students a way to FAIL AND THAT'S GOOD!
  - Gives students a way to fail EARLY
  - Gives students a way to fail OFTEN
  - Gives students a way to fail WITHOUT CONSEQUENCES
- Positive Reinforcement // Leveling Up for a System of Rewards



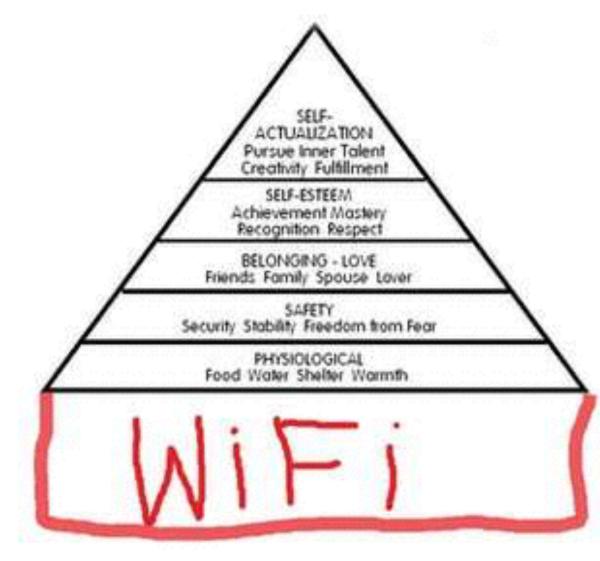


Knowledge without application is Fascination.

Knowledge with application is Purpose.

IBI LEARNING+

# BASIC NEEDS ARE IMPORTANT TO CREATIVITY. HEALTHY SELF ESTEEM IS CRITICAL.



HIGH

Discouraged, failed too often, no motivation to do

LOW

better

No connection to reality,
No reason to improve

Encouraged, driven to continue, realistic expectations and progress

Sweet spot, where there is a tempered balance, where a student feels confident but not reckless and cocky

Egomaniacal,
Unrealistic
Expectations
of Invincibility



#### 3 CHARACTERS THAT DEFINE YOU









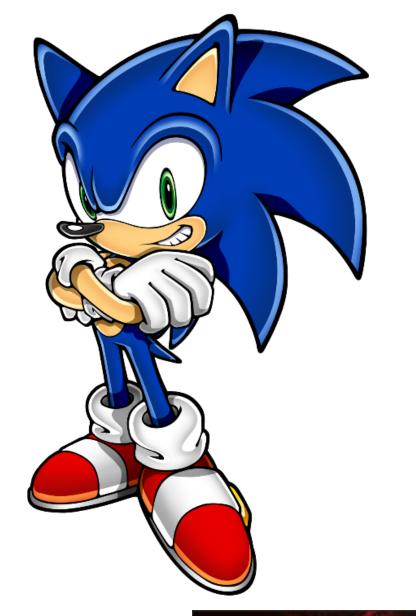
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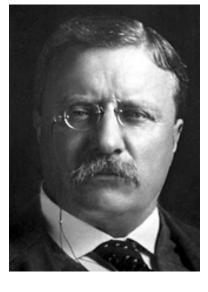




#### CREATIVITY AND EMPATHY CAN BE DRAWN FROM DIVERSE SOURCES OF INSPIRATION.







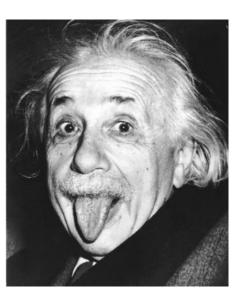














# STUDENTS NEED TO KNOW THAT THIS ISN'T ABOUT CREATING IDOLS. IT'S IMPORTANT TO LEARN CHARACTERISTICS OF MANY ROLE MODELS.



#### INSPIRATION SPARKS THE FLAME.

#### REINFORCEMENT FUELS THE FLAME.

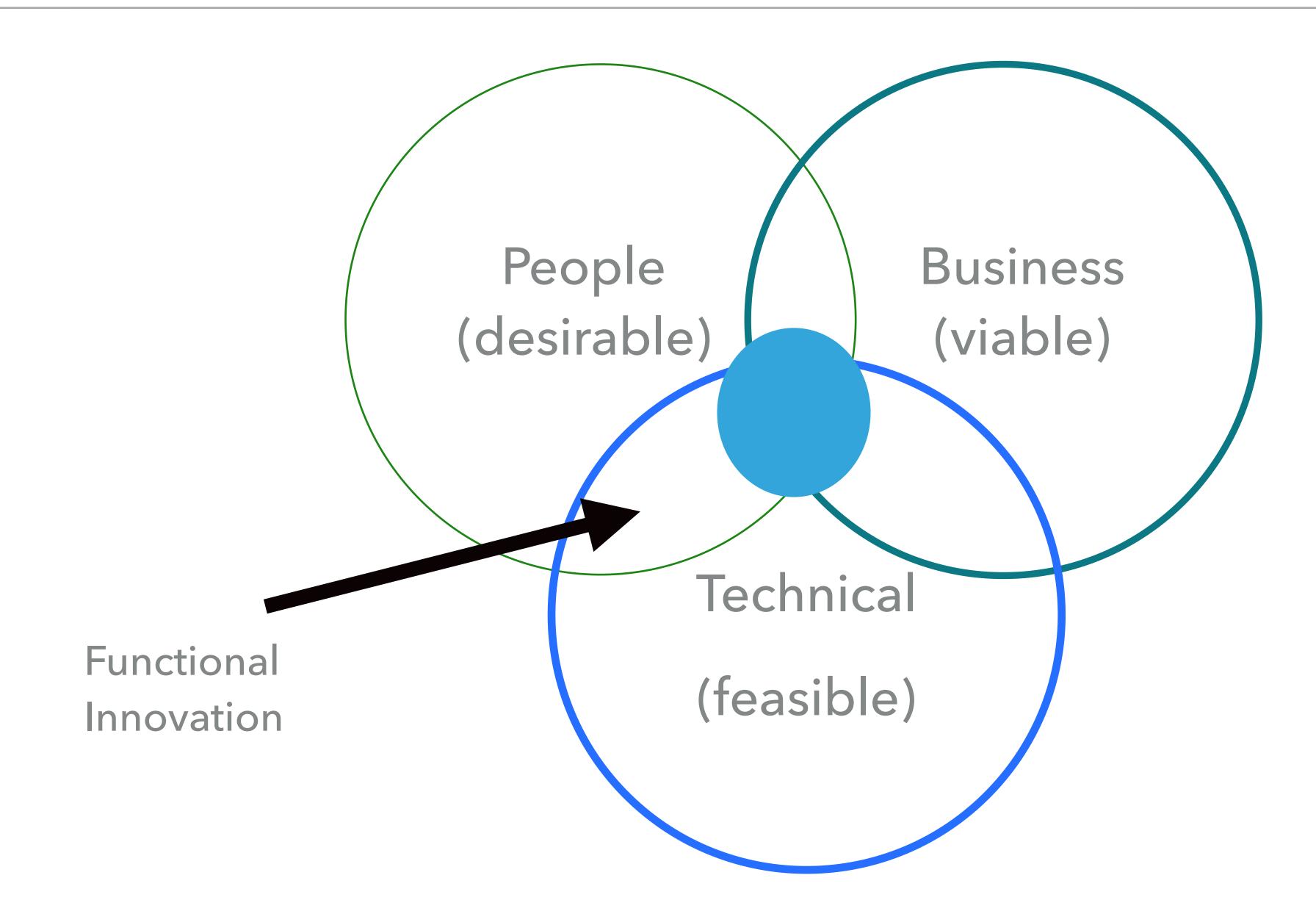
CHALLENGE FANS THE FLAME.



The minute that you understand that you can poke life and something will pop out on the other side, that you can change it, you can mold it... that's maybe the most important thing.

Once you learn that, you'll never be the same again.

STEVE JOBS





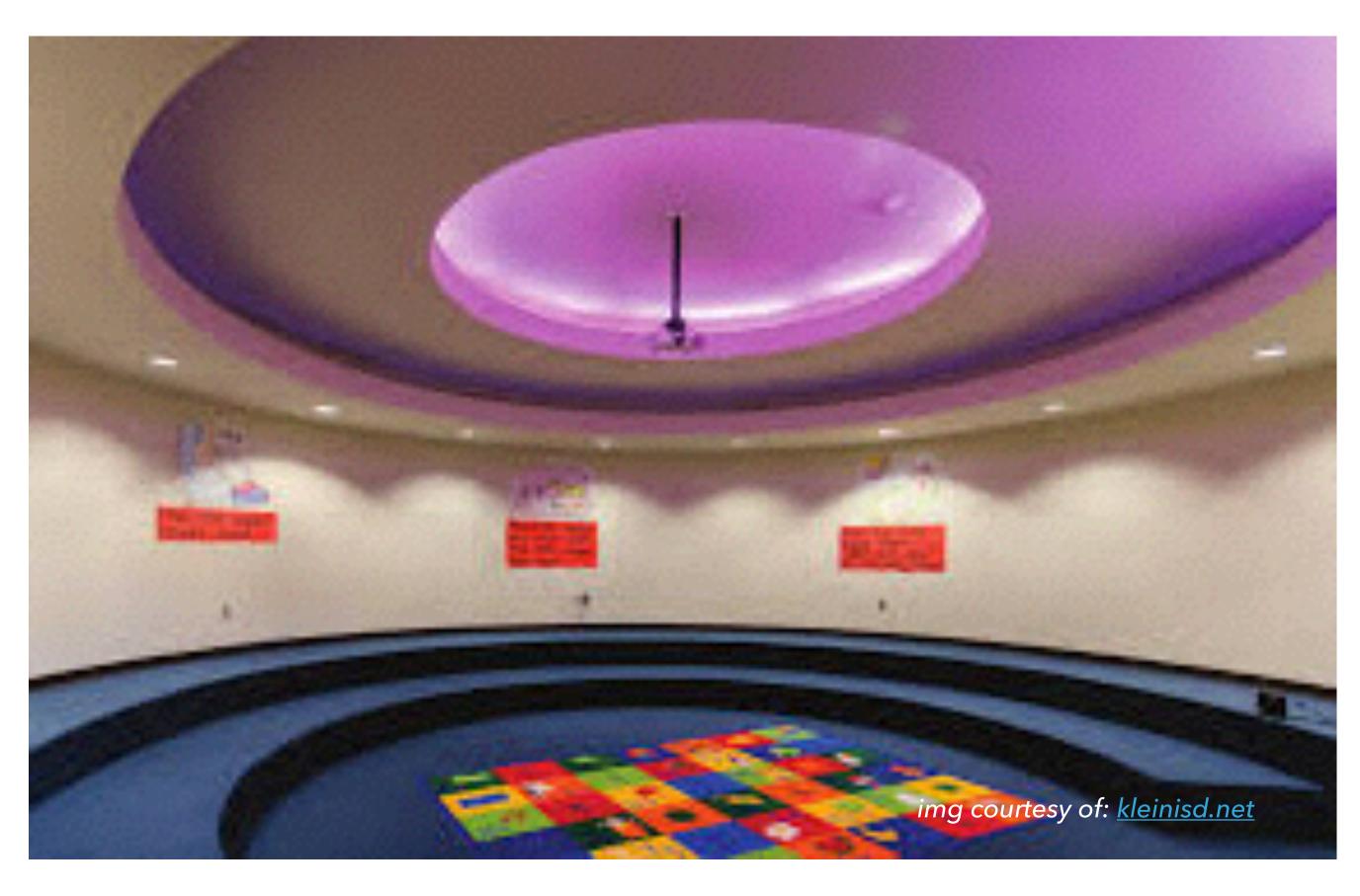
#### WHAT DOES PLAY LOOK LIKE IN A SCHOOL?



















### WHAT DOES PROJECT BASED LEARNING LOOK LIKE IN A SCHOOL?





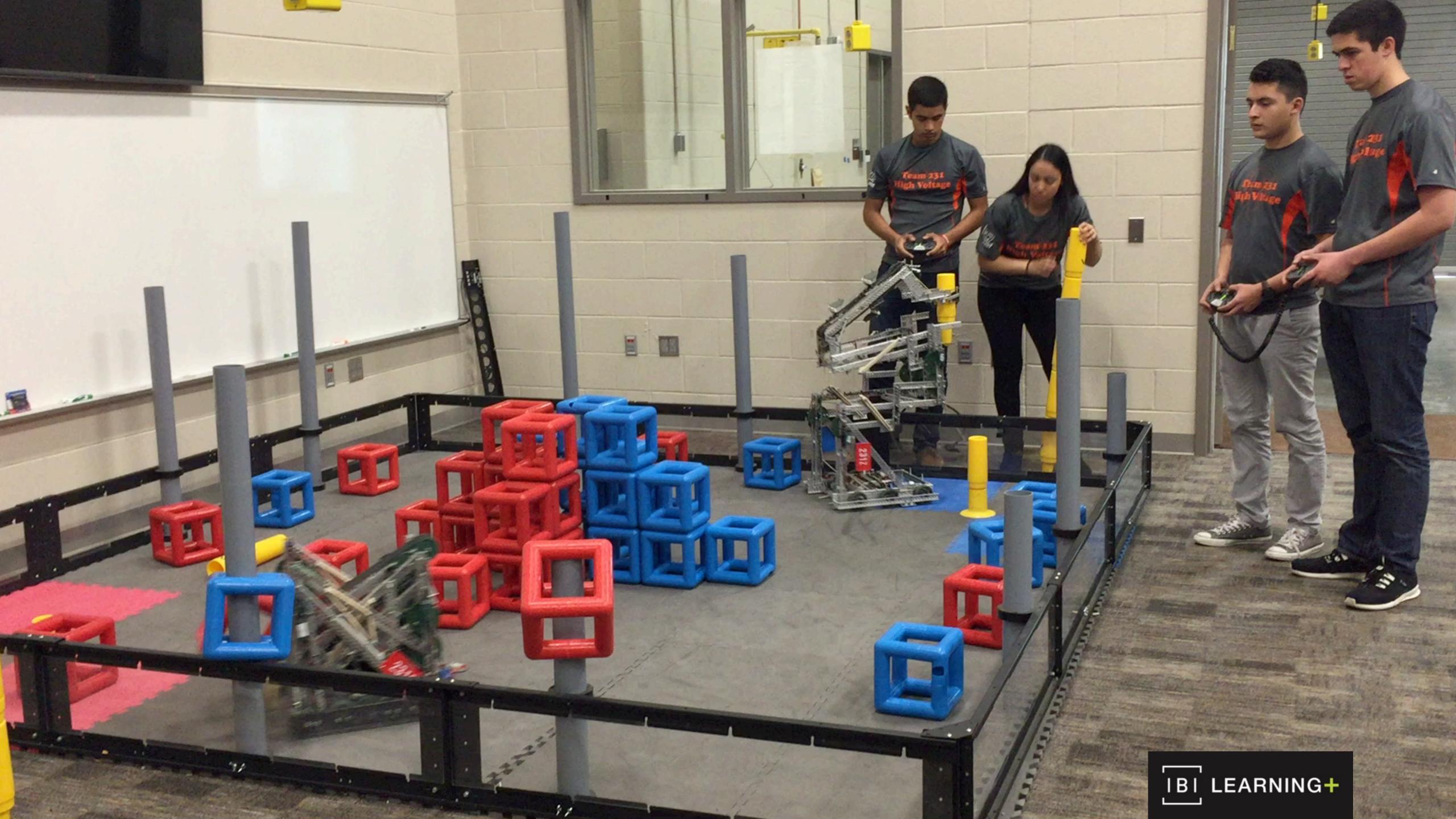
IBI LEARNING+

#### WHAT DOES PROJECT BASED LEARNING LOOK LIKE IN A SCHOOL?



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### FIXED MINDSET

"I'm an architect. I've done educational architecture for years. I know what my clients want. I'm going to just stick to that. I know what I'm capable of innovating and what I'm not."

"I know my district. I can't let kids have a voice. Let me just make all the decisions and move forward. I know the budget and the community anyways."

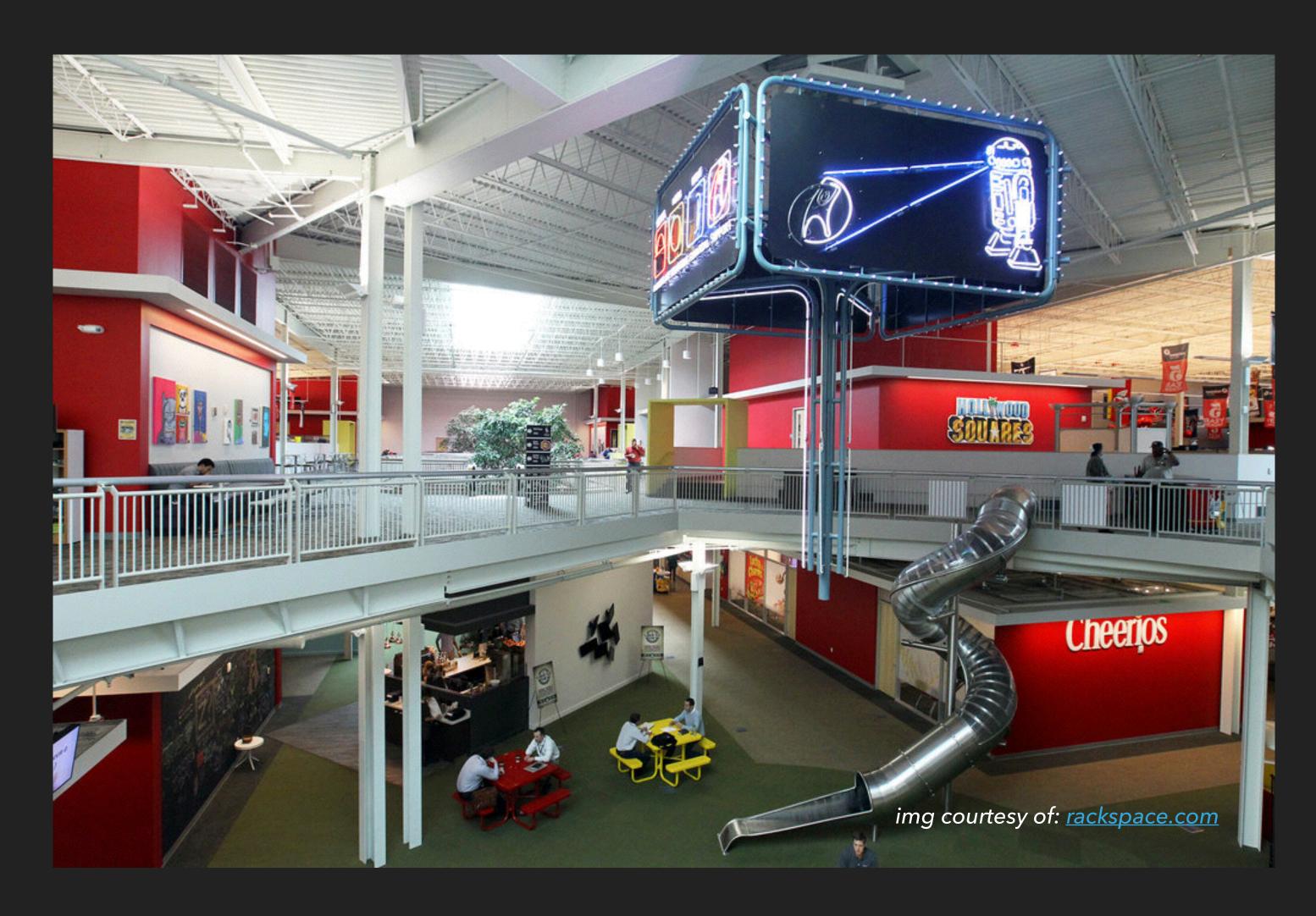
### **GROWTH MINDSET**

I'm an architect. I've done educational architecture for years. I know what my clients want. But, maybe it's time I do some digging to figure out how I can better present a new solution that my clients will love

I know my district. I also know that giving students a voice in their own learning environment produces better outcomes. Maybe I can help the community understand this won't impact our budget too much, and I can include students in the planning.



## TAKE THE TIME TO PLAY.







# CHALLENGE THE STATUS QUO. ASK MORE QUESTIONS.







## CREATE A PLUSSING CULTURE.



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