# Innovative Blended Learning: Promoting a Paradigm Shift

EMPOWERING YOUR MATH SUPERHEROES
DEEPER LEARNING SYMPOSIUM

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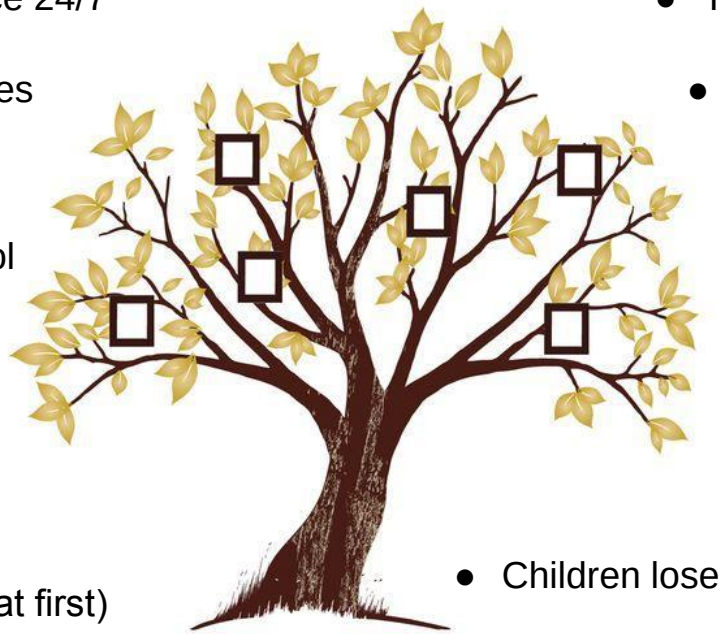
# The Tree of Blended Learning Myths

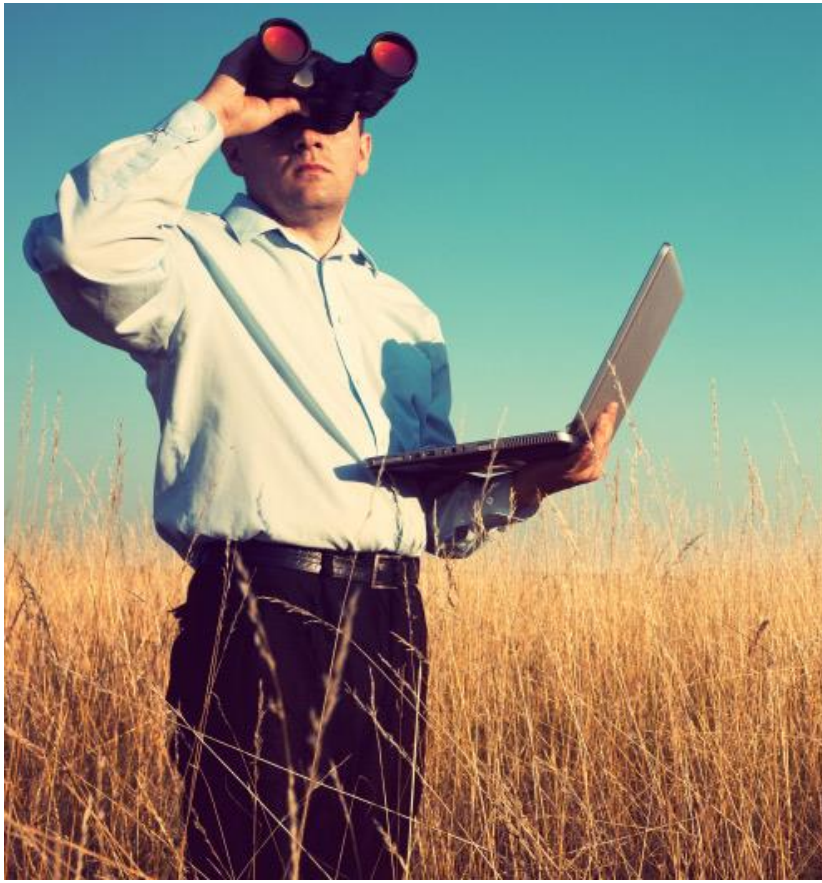
- Students are on a device 24/7
- Is all about 1:1 devices
- Students complete assignments working primarily at home or at school
- Online learning is only for gifted students or credit recovery
- Blended Learning is busy work or canned curriculum
- It's easy for kids! (at least at first)
- Blended learning is a linear process



- Technology replaces the teacher
- One digital tool will be enough
- Students work on a device and then with a teacher
- Students work in isolation
- Blended learning is less work than traditional teaching methods
- Children lose creativity & critical thinking
- Technology decreases human interaction

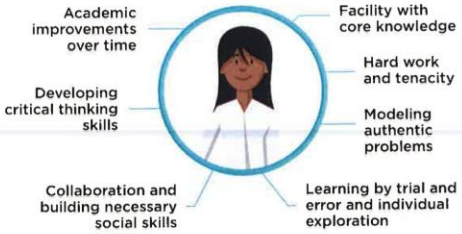
# Myths in Research

- **Numerous myths about blended learning and technology integration.**
- **Schools spending lots of money and not seeing any results.**
- **Technology inequities inside of individual school districts**
- **Your challenge today is to change your mindset that schools can do blended learning and technology integration correct.**



# THE STEM 2026 VISION

## INNOVATIVE MEASURES OF LEARNING

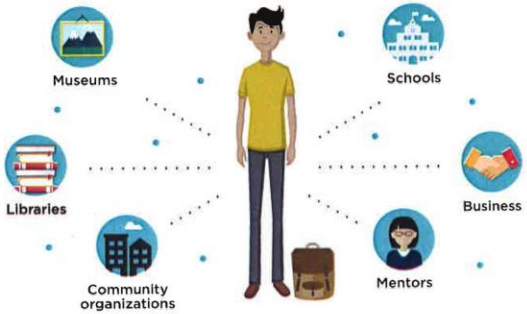



## FLEXIBLE LEARNING SPACES

## SOLVING RELEVANT GRAND CHALLENGES

## ACCESSIBLE ACTIVITIES THAT INVITE PLAY & RISK

## ENGAGED & NETWORKED COMMUNITIES OF PRACTICE




## PROMOTING DIVERSITY

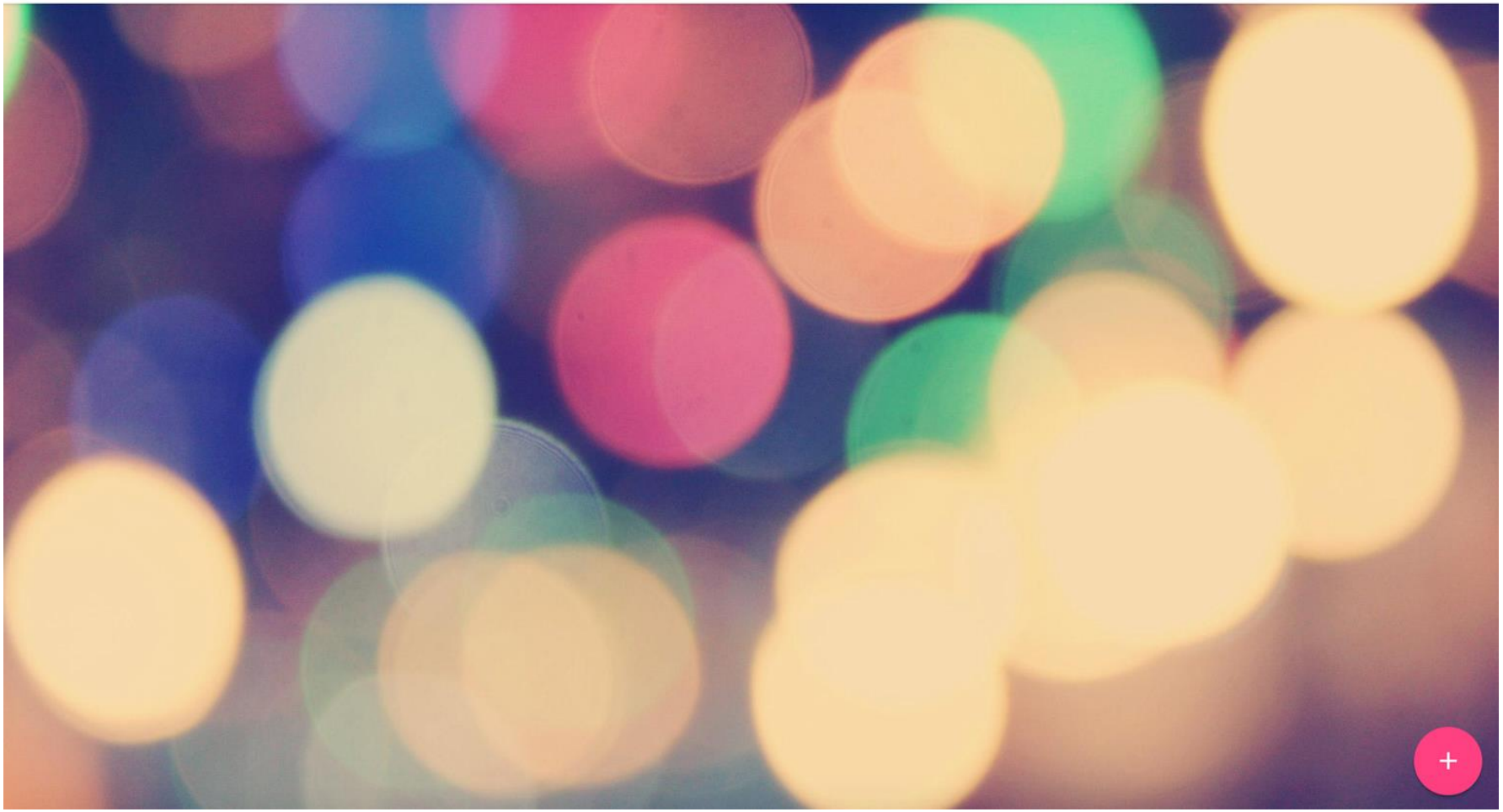
padlet

REMAKE SHARE

Brian Seymour • 1m

## Blended Learning Aw-Has

Tell us all about blended learning



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**http://tinyurl.com/MindBlended**

**Herbert Mils STEM Elementary**
**Reynoldsburg City Schools**
**440 Students**
**40 Teachers and Staff Members**

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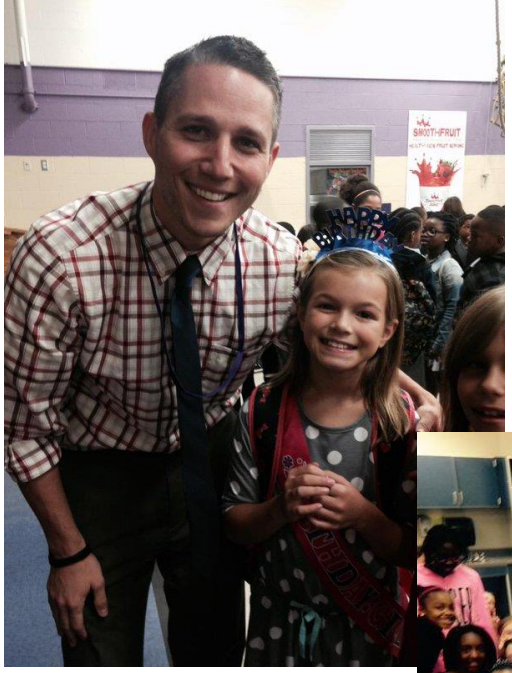
learners today *leaders tomorrow*

# My Story & Journey

- Training
- Hiring
- Evaluations
- Tours
- Student Ambassadors
- Teacher creativity, autonomy, and prerogative
- Accountability - high bar, evaluations tied to innovative practice, and spotlighting successful teaching
- Teachers model and highlight success as leaders
- Innovate learning  and design thinking
- Competitive share out



# Teacher in the role as the Facilitator

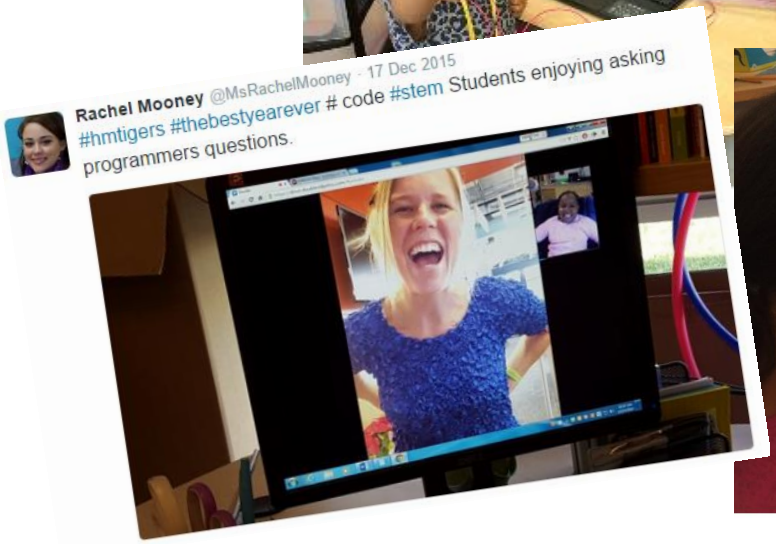
Foster the “softer skills”:

Perseverance

Problem-solving

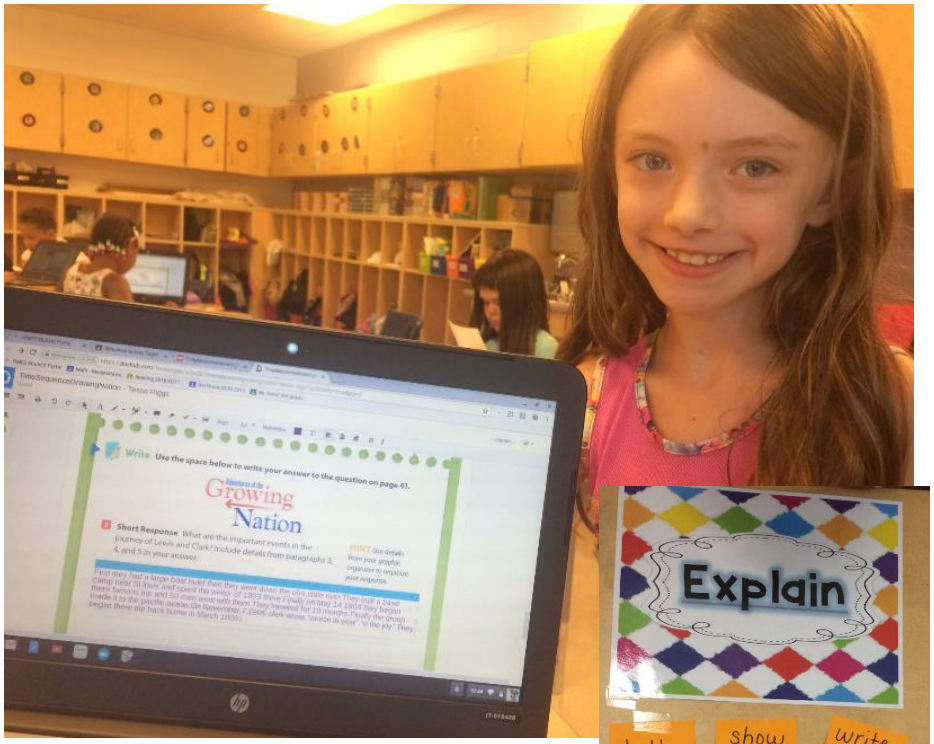
Digital Literacy

Collaborative work



# Mastery Learning

- Reinforces the direct learning previously received & previews the upcoming lessons
- Remediates when Ss do not master the material
- Pushes Ss to go further, to explore more, and use creative expressions of learning
- Accelerates learning




*Move away from "drill and kill" towards "thrill and skill"*

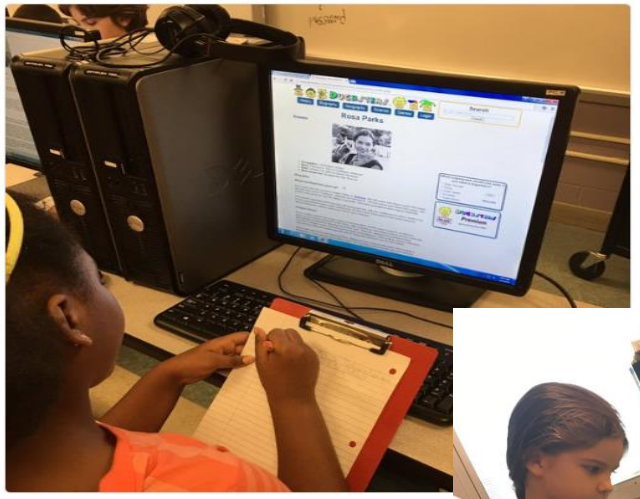
# Learning is accountable and supportive of quality not simply quantity of information

- The teacher and the student have access to instant data reflection and analysis
- Students “own” their data and goal setting
- Specific & timely feedback given
- Students are celebrated for their achievements

# Culture of Risk Taking

Miss Barbati @MissBarbati · May 5

Learned how to do online research this morning to begin our biography projects! #weRSTEM



*Learn by doing*

*Fail often, fail fast, then succeed...*

**Pickerington Local School District**
**10,500 students**
**675 Teachers & 200 Educational Support**
**ST Math in Pre-School through 8th Grade**

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WE TOOK THE PLEDGE
FUTURE READY SCHOOLS

DIGITAL LEARNING DAY LIVE! 2016

FUTURE READY SCHOOLS
PREPARING STUDENTS FOR SUCCESS

**FUTURE READY DASHBOARD DASH WINNERS**

- ORCUTT UNION ELEM CA
- PELHAM SCHOOL DISTRICT NH
- PEWAUKEE SCHOOL DISTRICT WI
- PICKERINGTON LOCAL OH
- POMONA UNF CA
- POWAY UNF CA
- REVERE LOCAL OH
- RIDLEY SD PA
- ROWAN-SALISBURY SCHOOLS NC
- SALEM COMMUNITY SCHOOLS IN
- SALISBURY TOWNSHIP SD PA
- SAN BERNARDINO COUNTY OFFICE OF EDUCATION CA
- SANTA ANA UNF CA
- SCOTLAND COUNTY SCHOOLS NC
- SHELBY EASTERN SCHOOLS IN
- SOCORRO ISD TX
- SOUTHERN TIOGA SD PA
- STEPHENVILLE TX
- WASHINGTON DISTRICT UT
- WESLACO ISD TX
- WESTERLY RI
- WINFIELD KS

# PICKERINGTON SCHOOLS TECHNOLOGY PLAN

Adopted Spring 2016
Modified Fall 2016

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www.pickerington.k12.oh.us/instructional-technology

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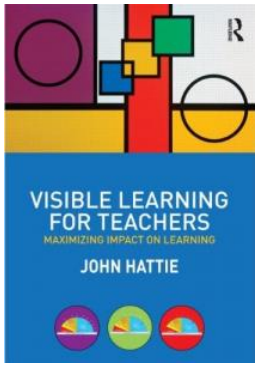
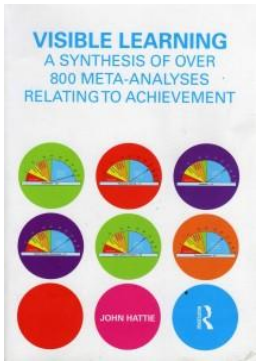
TRADIGITAL

THE ART OF BLENDING TRADITIONAL AND DIGITAL



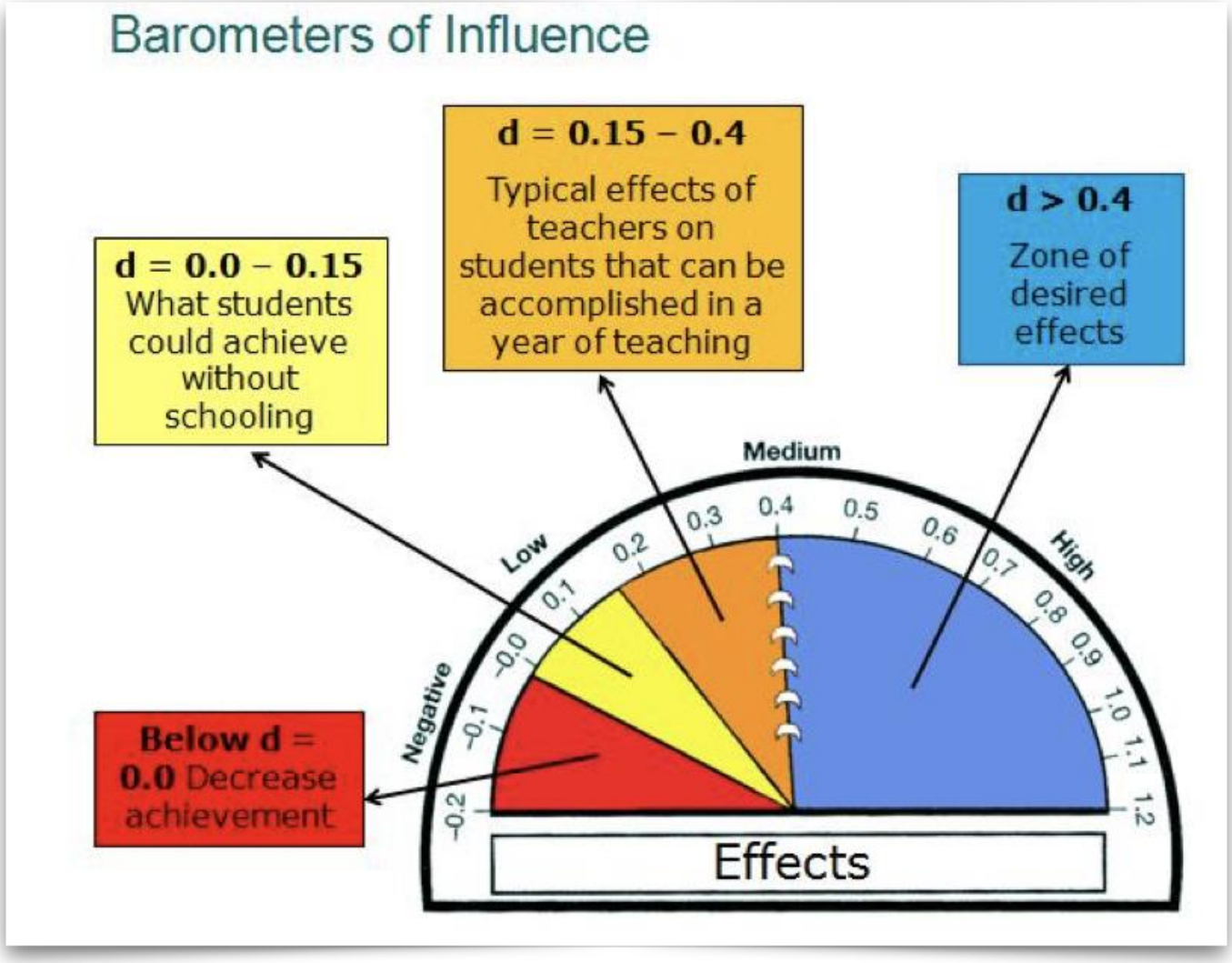




**Gears of Blended Learning**

- Learning Environment
- Instruction
- Student Learning
- Engaged Communities
- Professional Development
- One2One
- Instructional & Technical Support

MIND Research Institute

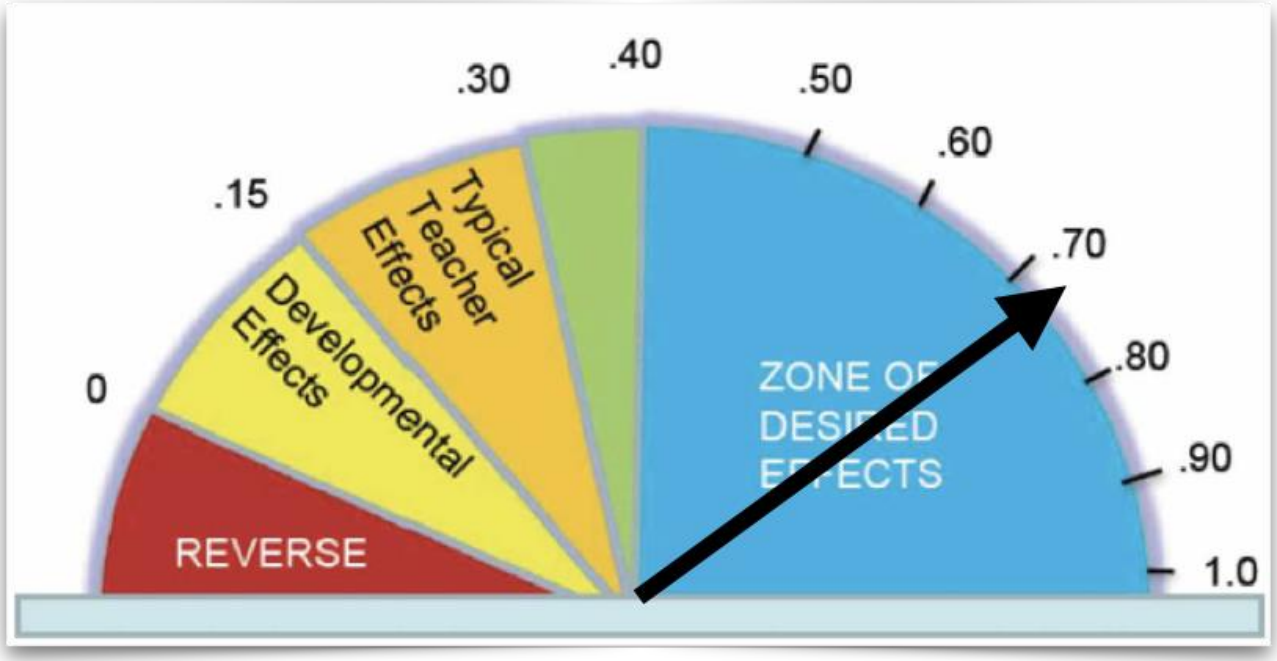
@MIND_Research
@MathSuperHeros




**John Hattie's Visible Learning and Barometer of Influence**

# Tradigital Teaching Strategies

**Teacher/Student Relationship = 0.72**

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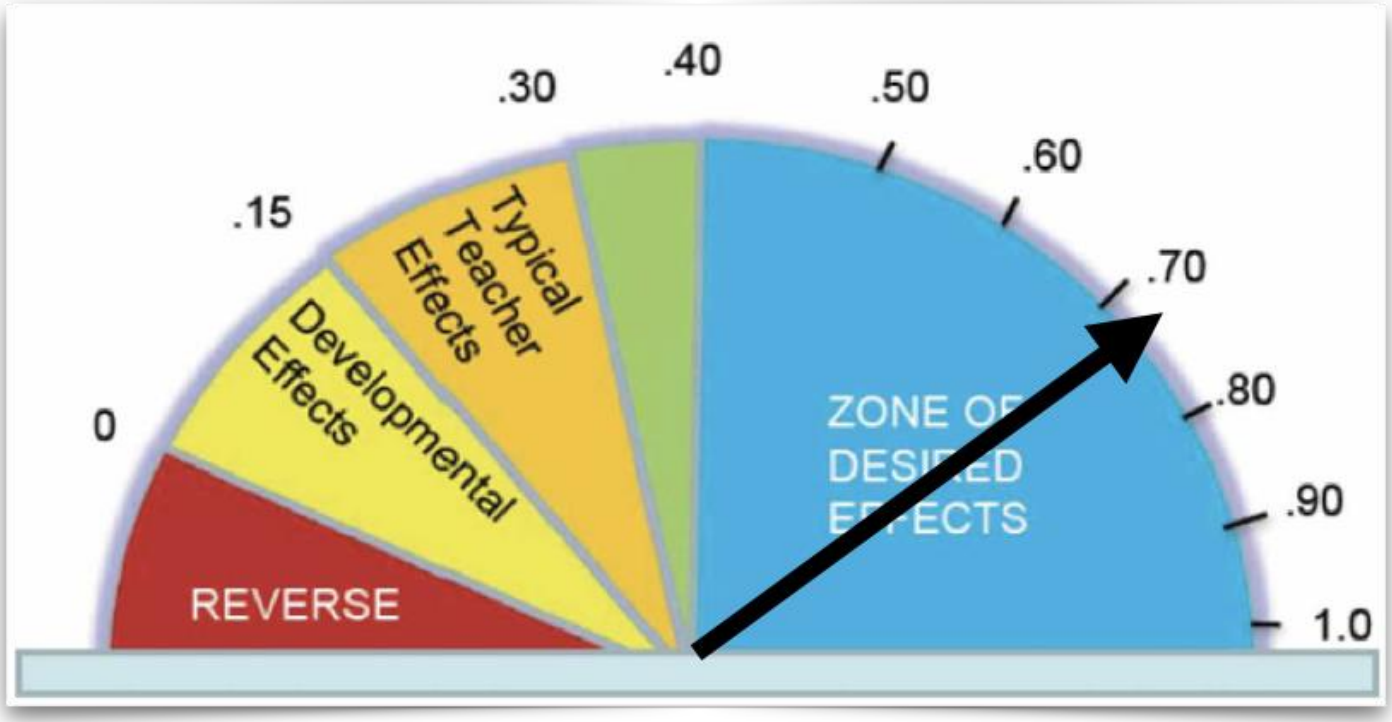
# Tradigital Teaching Strategies

**Teacher/Student Relationship = 0.72**

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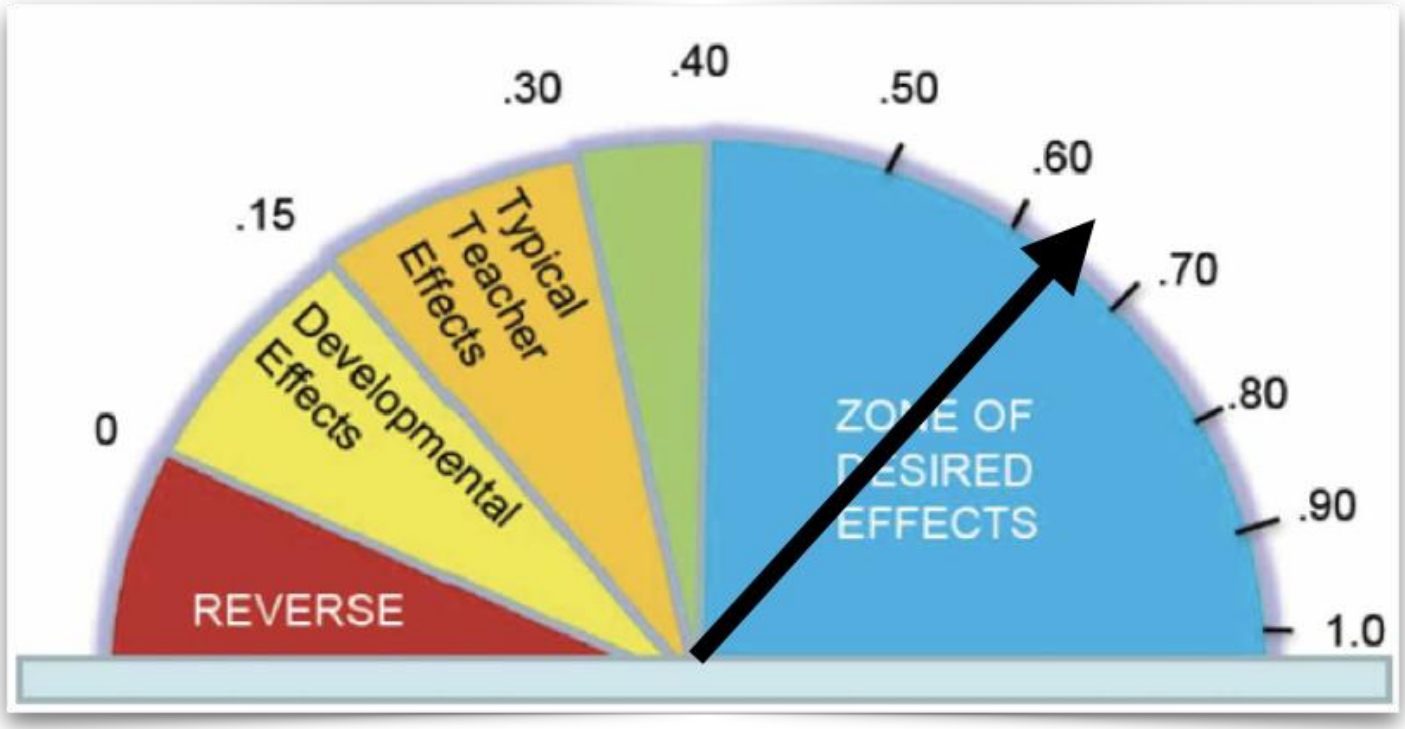
# Tradigital Teaching Strategies

**Allowing/Teaching Creativity = 0.65**

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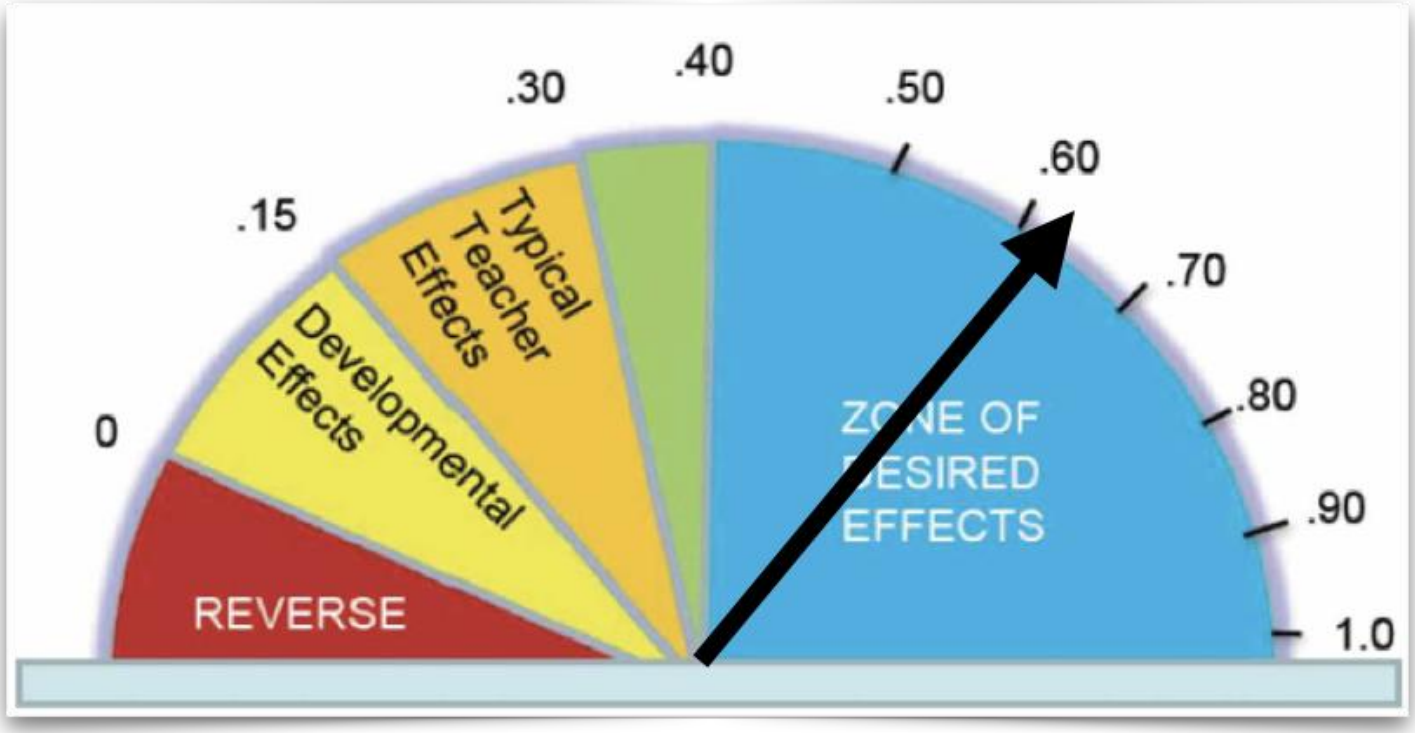
# Tradigital Teaching Strategies

**Problem Solving Skills = 0.63**

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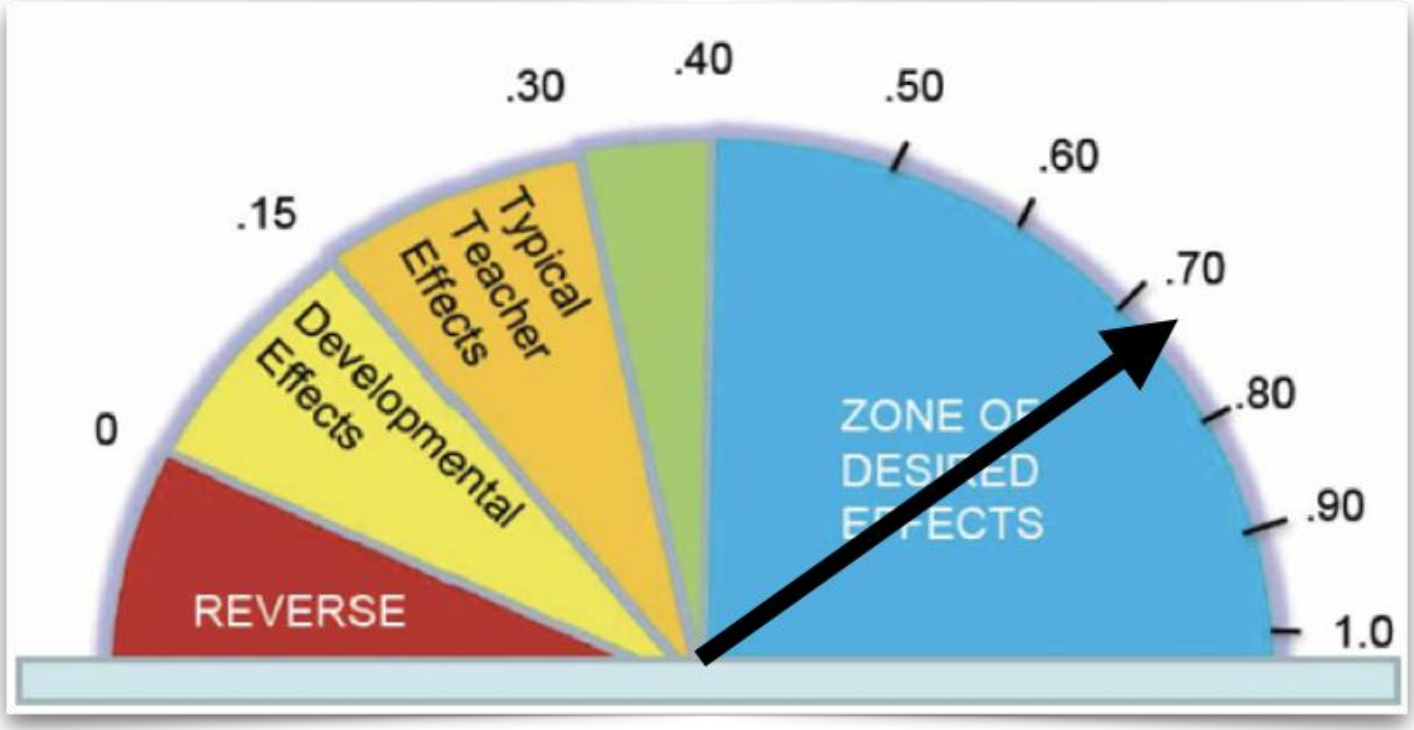
# Tradigital Teaching Strategies

**Effective Feedback = 0.73**

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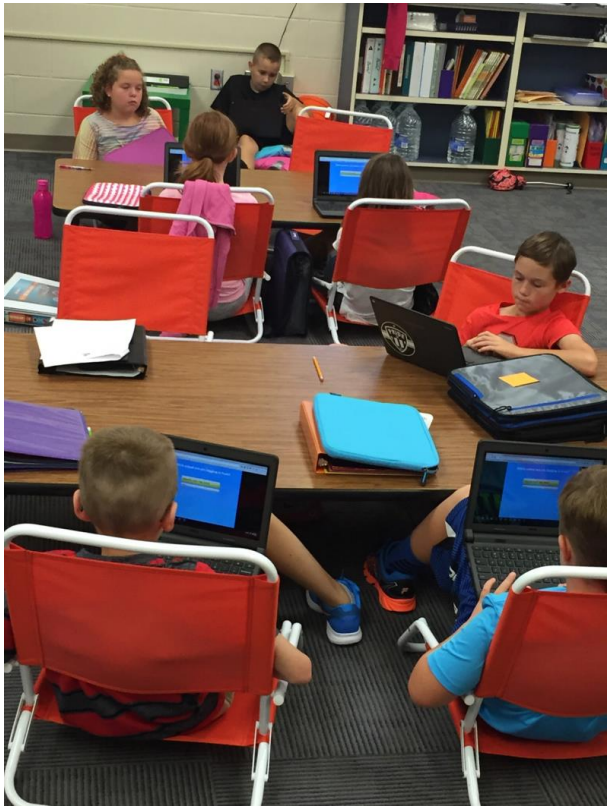
# Classrooms of Yesterday (look a lot like todays)

# Blended Learning –

## Physical Environment Must Change!



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# I Went One2One!

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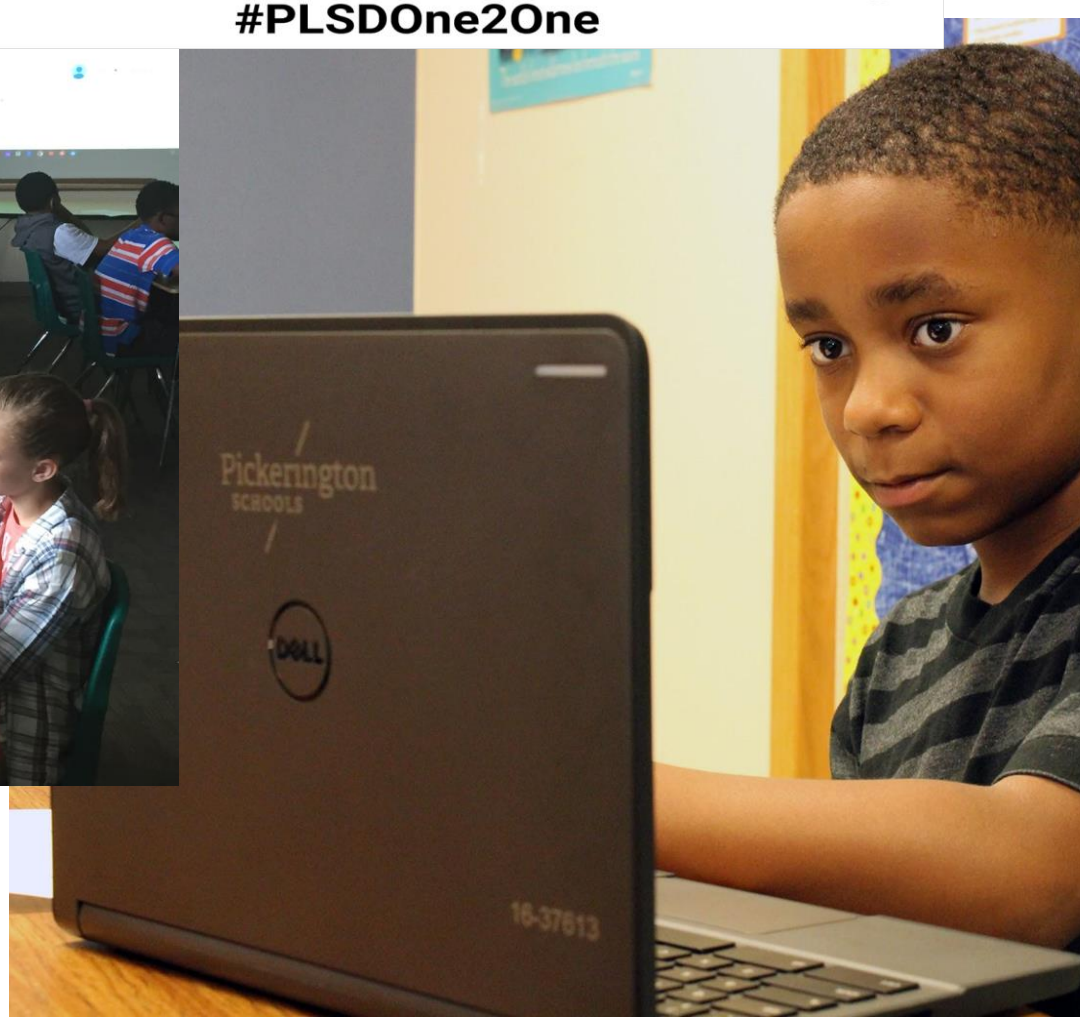
#PLSDOne2One

## One2One Devices

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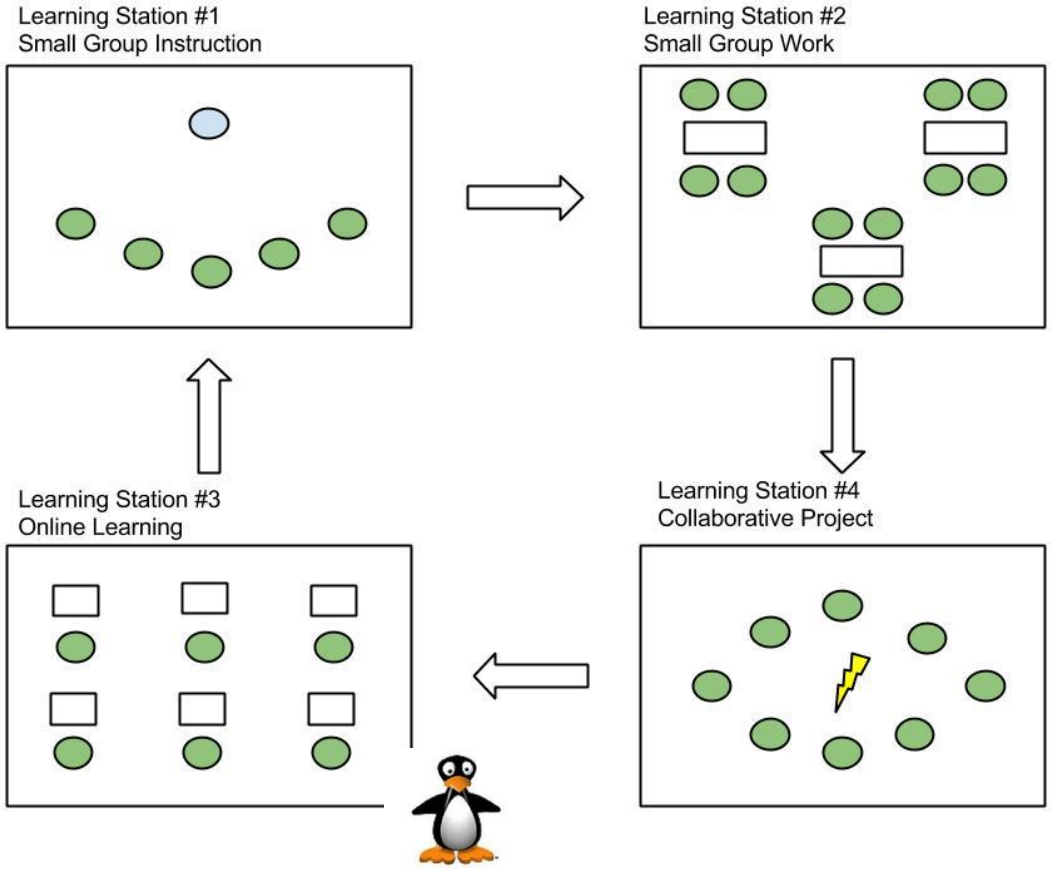
**Stations Ideas**

- **Teacher Led**
- **Technology Enhanced (Digital)**
- **Independent Practice**
- **4 C - Communicate, Collaborative, Creative, Critical Thinking**



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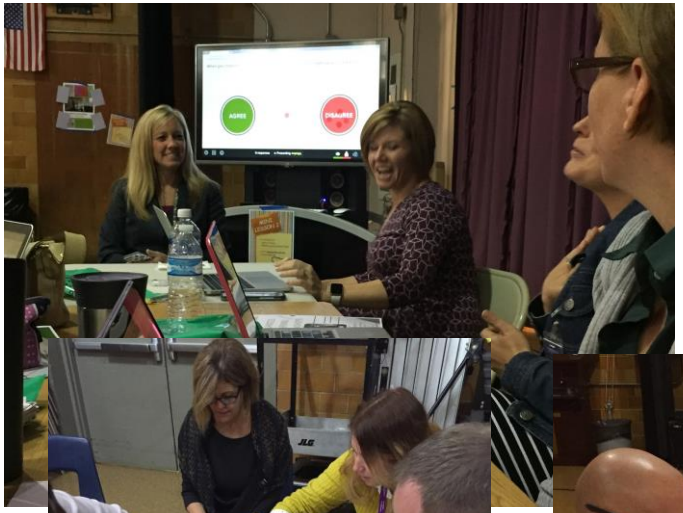
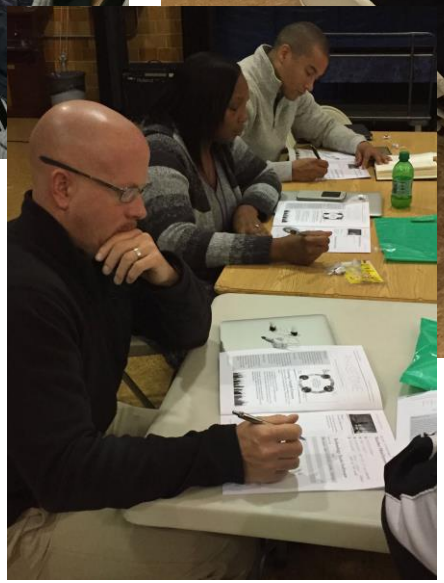
www.dsdprofessionaldevelopment.com





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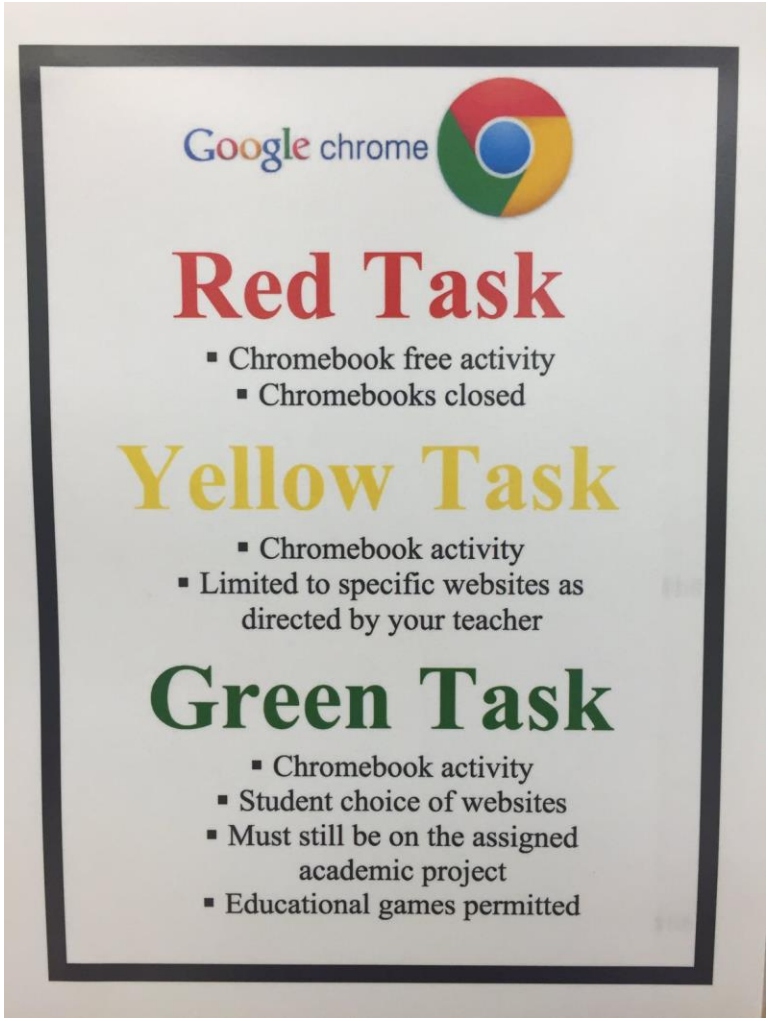
# Classroom Management



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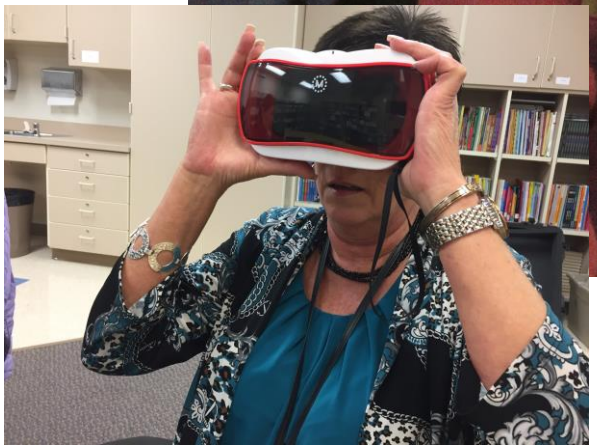

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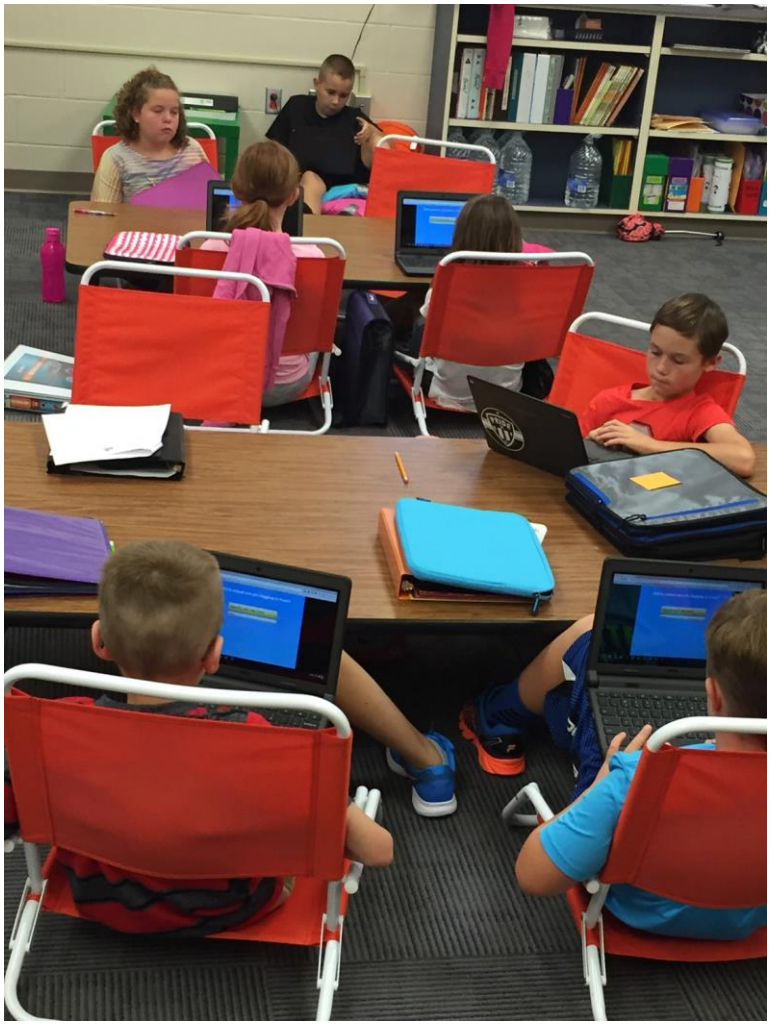
Our 3-year goal of blended learning to be able to differentiate and personalize instruction for each student.

- **Year 1 Goal** - become familiar with the basics of blended learning and begin using the station rotation model.
- **Year 2 Goal** - Use data to differentiate and personalize instruction for two-three large groups
- **Year 3 Goal** - Use data to differentiate and personalize instruction for all students.



# Exit Ticket

padlet

Mentimeter

# Blended Learning Thought Questions

- How do you define blended learning?
- What benefits can be seen from changing to a traditional pedagogy to a blended learning pedagogy?
- What routines do we need to develop so the students are success in a blended learning environment?
- What does blended learning look like in a classroom in my school/district? What physical changes might need to take to place?
- How will technology help to enhance lessons and increase opportunities for interaction and learning?
- What supports would veteran and new teachers need to adopt a blended learning pedagogy?
- What mindsets would need to change from our students, teachers, administrators and parents to see the benefits of blended learning?
- How can digital programs like ST Math support all students in a blended learning classroom?

# Blended Learning Thought Questions

- What type of culture do you want to create in your blended learning environment?
- How does ST Math and other resources support creating that culture?
- What are some best practices for organizing your blended learning environments to increase effectiveness?
- What is one strategy for monitoring & supporting students using ST Math & other resources.
- What is one strategy for helping students connect ST Math to classroom learning?
- Please share on the Padlet any links or resources that help to support a blended learning environment.