



Region 6 ESC
C A T A L O G
Of Offerings

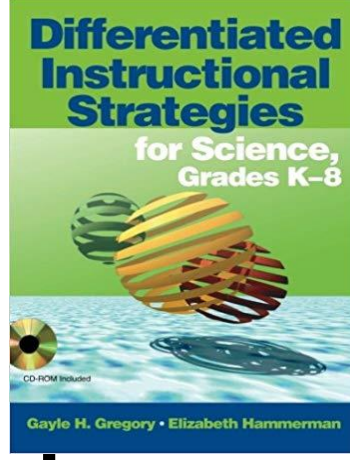
2018 - 2019

STEAM

SCIENCE K – 12

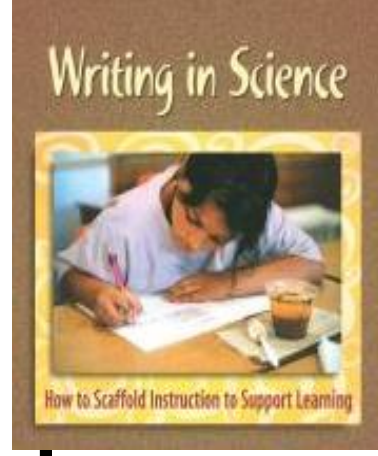
Differentiated Instruction Strategies for Science [K – 12]

10-18-18 Differentiated Instructional Strategies [328749](#)



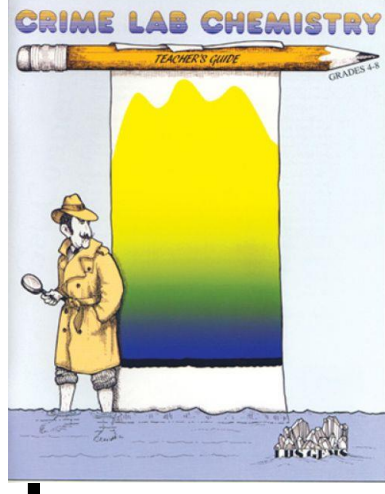
Science the Write Way [K – 12]

09-27-18 Day 1: Writing and Learning in Science [328759](#)
12-11-18 Day 2: Approaches to Science Writing [328795](#)



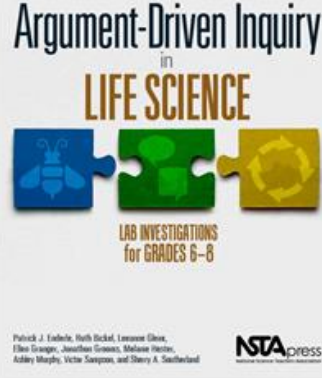
GEMS: Crime Lab Chemistry [6 – 8]

04-16-19 Solving Mysteries with Chromatography [337514](#)



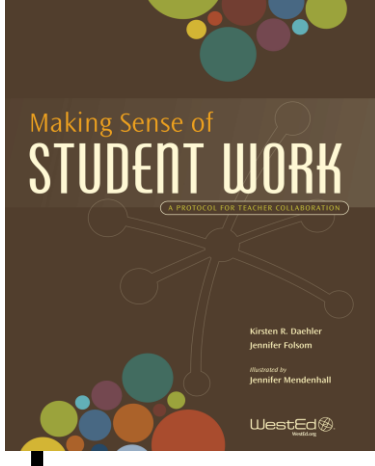
Argument Driven Inquiry for Life Science [6 – 8]

01-09-19 Day 1: Building Science Proficiency [328768](#)
03-05-19 Day 2: Options for Implementation [328825](#)



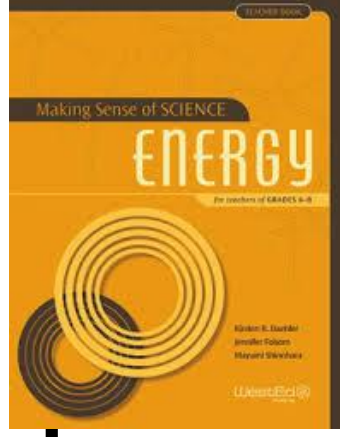
Making Sense of Student Work [6 – 12]

11-08-18 Day 1: Mental Models and Learning Gaps [336216](#)
02-19-19 Day 2: Analyzing and Modeling Tasks [336239](#)



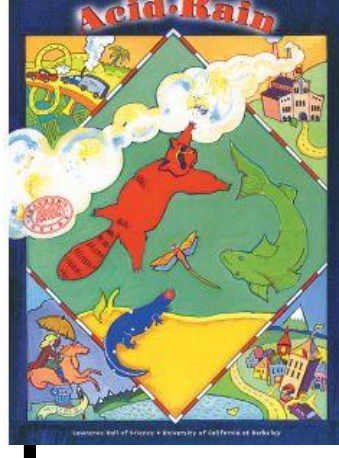
Making Sense of Science: Energy [6 – 12]

11-06-18 Day 1: What is Energy? [328763](#)
12-18-18 Day 2: Potential Energy [328772](#)
01-29-19 Day 3: Heat Energy [336227](#)
02-21-19 Day 4: Conservation of Energy [328823](#)
03-28-19 Day 5: Energy in Ecosystems [328829](#)



GEMS: Acid Rain [3 – 8]

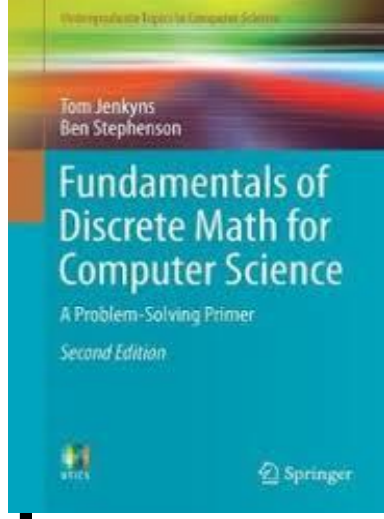
02-05-19 Acid Rain [328817](#)



TECHNOLOGY

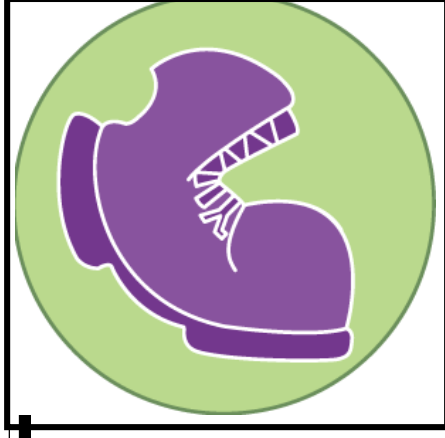
Discrete Mathematics for Computer Science [K – 12]

03-26-19 Binary Base Systems [326836](#)



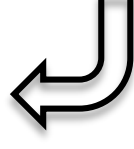
Bootstrap [6 – Algebra 1]

01-08-19 Day 1: Video Game Math and Coding [326803](#)
02-05-19 Day 2: Enhance the Video Game [326826](#)
03-05-19 Day 3: Finish and Launch [326834](#)



Python Crash Course [6 – 12]

02-07-19 Day 1: The Basics [326827](#)
03-28-19 Day 2: Functions and Alien Invasion [326828](#)
04-30-19 Day 3: Independent Project [326829](#)



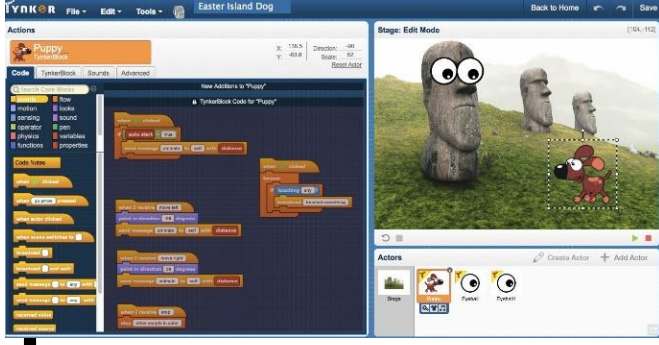
Storytelling Using Scratch [K – 12]

11-01-18 Digital Storytelling [326796](#)



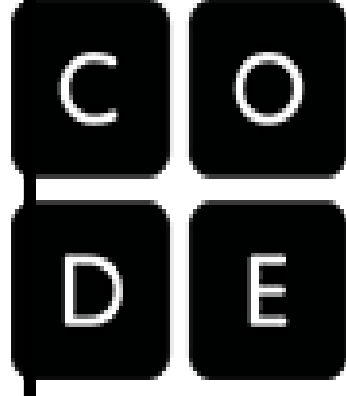
Tynker Lessons [K – 12]

10-02-18 Building Games with Block Coding [326790](#)



Block Coding Fundamentals [K – 12]

02-28-19 Hour of Code [326833](#)
03-19-19 Leveled Course Using Code.org [326835](#)



TECHNOLOGY

ENGINEERING & ARTS

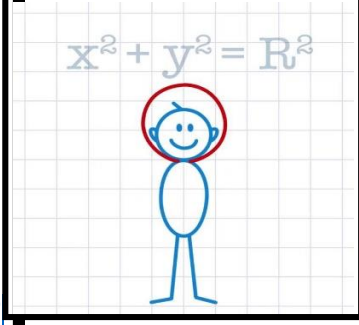
Stem Behind Hollywood [6 – 12]

10-29-18 TI Nspire STEM Behind
Hollywood [336603](#)



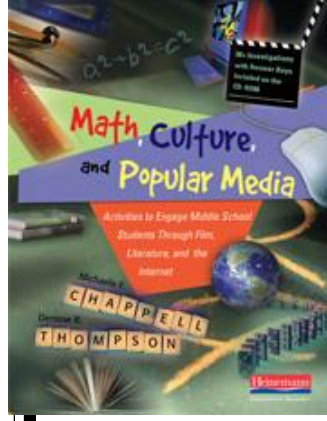
Math Dance [6 - 12]

01-22-19 Whole Body Mathematics and
Movement [326815](#)



Math, Culture, and Popular Media [6 – 8]

12-06-18 Day 1: Film Resources [326801](#)
01-24-19 Day 2: Print Literature [326818](#)
03-03-19 Day 3: Internet Resources [327242](#)



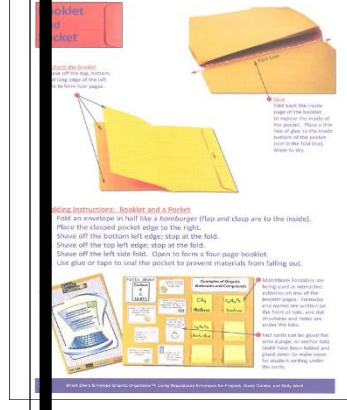
DESMOS Activity Builder [K – 12]

02-26-19 Math Task Makeover with DESMOS
Activity Builder [326832](#)



Interactive Journaling [3 - 7]

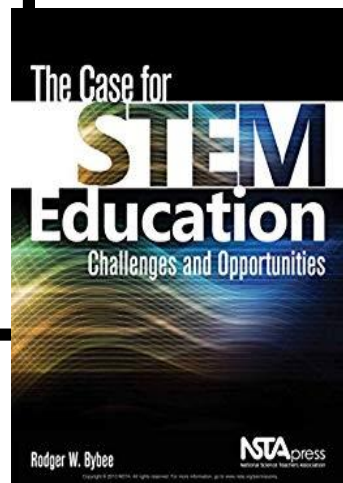
09-06-18, 02-07-19 Day 1: Support Materials
[326782](#)-7th, [331832](#)-3rd-6th
10-23-18, 03-19-19 Day 2: Student Success [326783](#)-7th,
[331833](#)-3rd-6th



STEAM TEACHER LEADERS

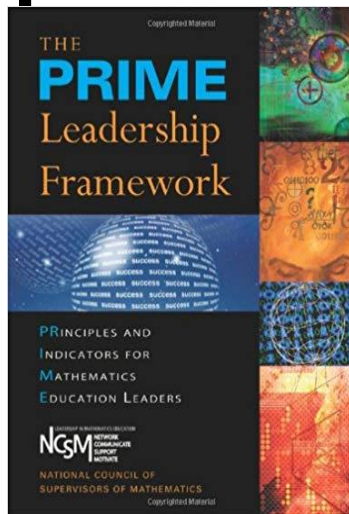
Distance Learning [Science]

10-02-18 Challenges and Sputnik 329987
 11-28-18 STEM Education and Reform 329988
 01-22-19 Question and Opportunity 329989
 02-28-19 Coherent Strategy and Perspective 329990
 04-16-19 Now and Go and Action Plan 329991



Distance Learning [Math]

10-30-18 Introduction 330295
 11-27-18 Equity Leadership 330296
 01-31-19 Teaching and Learning Leadership 330297
 02-07-19 Curriculum Leadership 330298
 03-26-19 Assessment Leadership 330299
 04-02-19 Becoming a PRIME Leader 330300



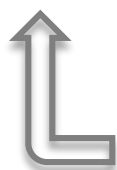
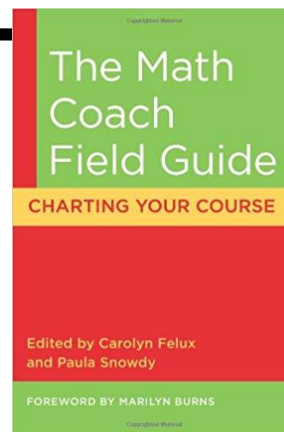
Online Book Study

04-29-19 The Math Field Coach Guide 330301



Online Book Study

04-22-19 Reforming Secondary Science Instruction 330007



Mentoring

Math
 12-17-18 Fall 330302
 05-07-19 Spring 330303

Science
 12-18-18 Fall 330028
 05-02-19 Spring 330029

MATHEMATICS ELEMENTARY

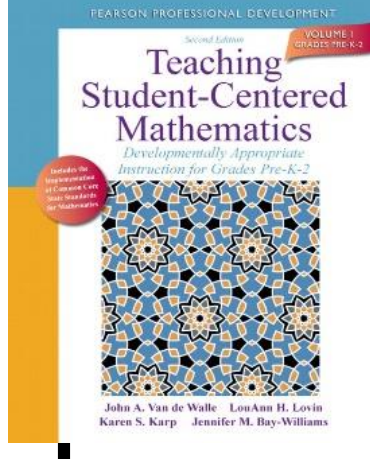
Elementary Mathematics Institute (EMI) [K – 5]

09-20-18 Day 1: Tools of Mathematics and Place Value [325761](#)
 10-23-18 Day 2: Teaching Addition and Subtraction [325765](#)
 11-07-18 Day 3: Teaching Multiplication and Division [325766](#)
 12-06-18 Day 4: Teaching Fractions [325767](#)
 01-09-19 Day 5: Teaching Geometry [325769](#)
 02-05-19 Day 6: Teaching Measurement [325771](#)
 03-05-19 Day 7: Teaching Probability and Statistics [325772](#)



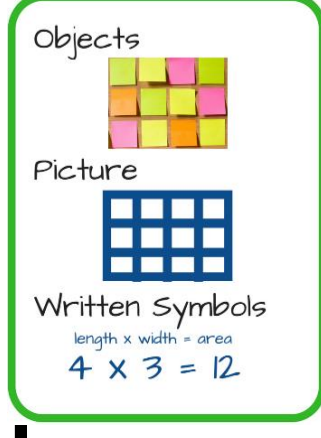
Teaching Student Centered Math Collaboration [PK – 5]

10-04-18 Day 1: Category 1 Numerical Representations and Relationships [328744](#)
 11-06-18 Day 2: Category 2 Computations and Algebraic Relationships [328745](#)



Singapore Math [K – 3]

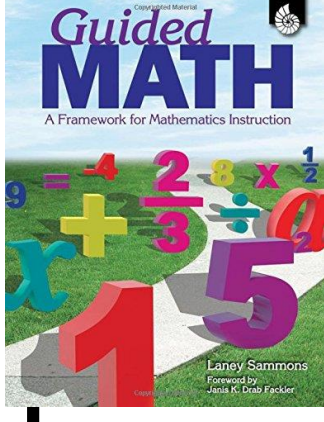
11-01-18 Day 1: Place Value, Computation and Number Sense [322935](#)
 12-06-18 Day 2: Efficient Computation Strategies [322936](#)
 01-24-19 Day 3: Mental Math Strategies [322937](#)
 02-19-19 Day 4: Planning and Assessment [322938](#)



MATHEMATICS ELEMENTARY

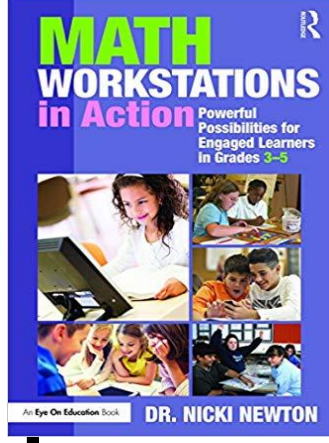
Guided Math Collaborative [PK – 5]

10-05-18 Day 1: Category 1 Numerical Representations and Relationships [335009](#)
10-18-18 Day 2: Category 2 Computations and Algebraic Relationships [328742](#)



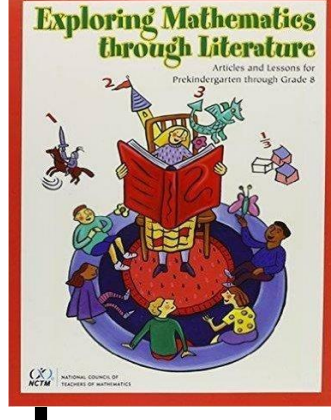
Math Workstations in Action [3 – 5]

09-27-18 Day 1: Engaging Learners [322926](#)
10-24-18 Day 2: Creating, Managing, and Maintaining [322934](#)



Exploring Mathematics Through Literature [K – 8]

11-08-18 Day 1: Books Can Enhance Mathematical Learning [335009](#)
12-18-18 Day 2: Why Use Books in the Classroom? [328742](#)

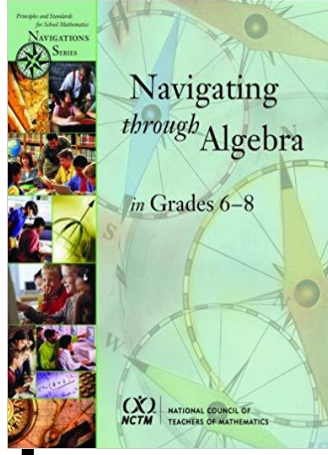


MATHEMATICS

SECONDARY

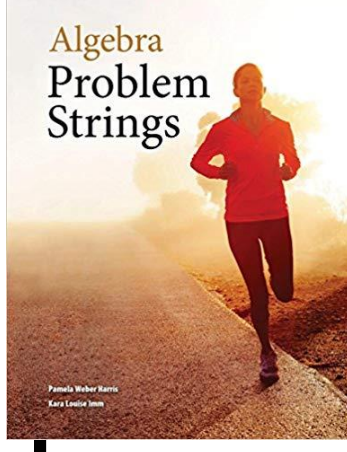
Navigating Through Algebra [6 – 8]

11-08-18 Day 1: Patterns, Relations, and Functions [326798](#)
01-31-19 Day 2: Linear Relationships and Algebraic Relationships [326821](#)



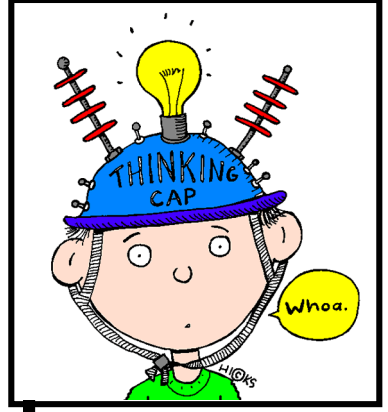
Algebra 1 Problem Strings [Algebra 1]

09-20-18 Day 1: What Makes a String [326791](#)
10-18-18 Day 2: Function Mania [326792](#)



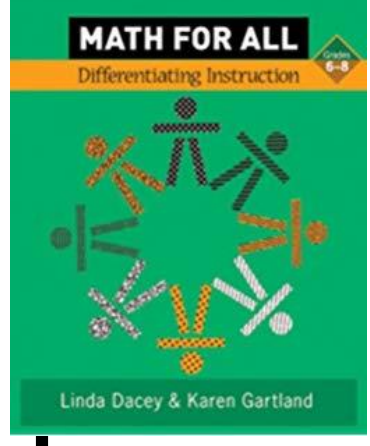
Understanding Depth of Knowledge [6 – 12]

10-04-18 Day 1: What is Intelligence? [326788](#)
11-06-18 Day 2: Tasks [326789](#)



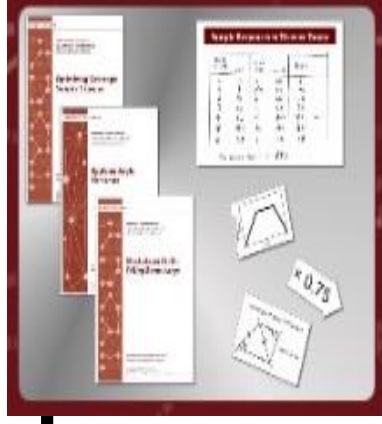
Differentiated Learning [K – 12]

09-25-18 Math for All: Differentiated Instruction [326786](#)



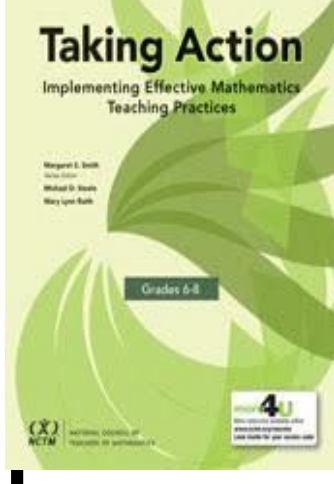
Formative Assessment Lessons [6 – 12]

09-18-18 Day 1: Process and Understand [326784](#)
10-24-18 Day 2: Applying and Assessing [326785](#)



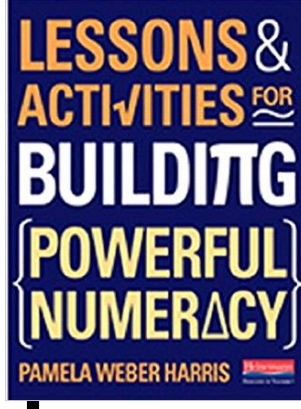
Supporting Students' Productive Struggle in Math [6 - 8]

10-31-18 Day 1: The What and How [326795](#)
11-27-18 Day 2: Student Work [326797](#)



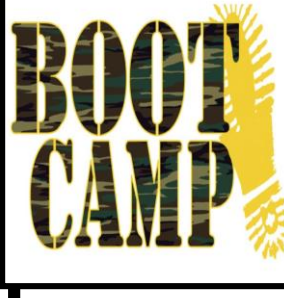
Lessons and Activities for Building Powerful Numeracy [6 – 12]

12-04-18 Day 1: Student Workouts [326800](#)
01-29-19 Day 2: Teacher Directed Activities [326825](#)



STAAR Bootcamp [5th, Algebra 1]

11-29-18 (5th), 01-09-19 (Alg. 1) Day 1: Planning Activities [326799](#) – 5th, [326804](#) – Alg. 1
12-18-18 (5th), 02-19-19 (Alg. 1) Day 2: Mathematical Connections [326802](#) – 5th, [326830](#) – Alg. 1



MATHEMATICS SECONDARY



SCIENCE TECHNOLOGY ENGINEERING ARTS MATHEMATICS



Susan Bohan
Math/Science Coordinator
936.435.8211
sbohan@esc6.net



Susan Brown
Elementary Mathematics Specialist
936.435.8227
smbrown@esc6.net



Crissie Fowler
Secondary Mathematics Specialist
936.435.8219
cfowler@esc6.net



Jennifer Graves
Science Specialist
936.435.8216
jgraves@esc6.net

