

## Personalized Learning in Massachusetts

## How?

- ▶ How do we incorporate projects when we have so much content to cover?
  - ▶ Accountability
  - ▶ Performance Gaps
  - ▶ Evaluation
  - ▶ College Entrance
  - ▶ Parental Expectations
  - ▶ That isn't how we've always done it!

## How can we not?

- ▶ Expectations in the standards
  - ▶ Create
  - ▶ Design
  - ▶ Develop
  - ▶ Analyze
  - ▶ Compare

## How can we not?

**USA TODAY** Search

NEWS SPORTS LIFE MONEY TECH TRAVEL OPINION 45° ORDER WORDS YOUR BAKE ELECTIONS 2016 MORE

**Our high school kids: tired, stressed and bored**

By Greg Toppo, USA TODAY 9:58 a.m. EDT October 28, 2015

The student sample is huge: 22,000 high school students from across the USA. The message is clear—our high schoolies are none too happy, at least when they're in school.

Researchers distributed a brief online questionnaire that featured the question, "How do you currently feel in school?" They've blank spaces filled-in, with room for any answers they'll write afterwards.

Eight of the top 10 responses were negative.

"Tired" was most often checked — 29% of students wrote that.









"Bored" came in second, at 25%. "Stressed" was third, at 25%.

## A Means to the End

- ▶ Learner-Centered
- ▶ Teacher as Facilitator
- ▶ Technology as a Tool
- ▶ Authentic Application
- ▶ Collaboration
- ▶ Problem Solving

## A Means to an End





Beyond the 3Rs - the new skills the world is looking for.

 Leadership	 Digital literacy	 Communication	 Emotional intelligence
 Entrepreneurship	 Global citizenship	 Problem solving	 Teamworking

Source: Pearson

## A Means to an End

**What Were the Needs of Society Across the Ages?**

Agricultural Age 	Industrial Age 	Information Age 	Conceptual Age 
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**What Role Did Public Schools Play in Responding to Society's Needs?**

Source: Modern Teacher

## Visioning

- ▶ 2010: Visioning Committee
- ▶ 2011-2012: PBL Training for Staff
- ▶ 2012-2017: Strategic Plan
- ▶ 2012 and beyond:  
School Improvement Plans

How PBL Fits in a District Educational Plan

PBL Conference 7.1

## District Strategic Planning

**Foster and support a curriculum that is robust, innovative, rigorous and relevant for all students**

**Expected Outcome One:** *Technology and Data are used at all levels to improve instruction and prepare students to be college or career ready by graduation from High School.*

**Expected Outcome Two:** *Teaching of literacy skills are an integral part of all content areas at every grade level.*

**Expected Outcome Three:** *Project-based real world learning experiences are integrated into the curriculum.*

## School Improvement Plan

**DUXBURY SCHOOLS  
SCHOOL IMPROVEMENT PLAN**

Dist ID #	School ID	Principal/Assistant Principal	School Year	DE/DOE	Formal Charter/Local/State/No Charter
Goal #1: Student Achievement	Goal #2: School Leadership	Goal #3: Teacher	Goal #4: Family	Goal #5: MEYS - C-3	
Goal #6: PBL					

**Goal #6:** To maximize the PBL opportunities for students

OBJECTIVE	ACTIVITY	TIMELINE	MONITORING	EVALUATION
1.1 By 10/1/15, 100% of students will participate in at least one Project Based Learning Experience	Teachers will continue to develop and implement Project Based Learning experiences for their students.	September- May, 2014-2015	Principal, Subject Supervisors, and FORMALS	TEC Survey, PBL and Project Based Learning, AYP/LEAP, and Formals
<b>COMPLETED:</b> Teachers continue to integrate PBL and identify it as important in their professional practice				


Adapted from Local Resources: Professional Development Plan

## Implementation


- ▶ Flexible
- ▶ Thinking Big and Small
- ▶ Permission to Play
- ▶ Professional Development:
  - ▶ Pedagogy
  - ▶ Instructional Strategies
  - ▶ Technology
  - ▶ Content
- ▶ Turning a Tanker, Not a Sailboat!

## Projects!


**Laurie Hunter** @DuxAcadSupor 24 Nov  
How far will the projectile marshmallow go? Project based learning at work. [pic.twitter.com/bXoc79tvnx](http://pic.twitter.com/bXoc79tvnx)




**Grade 3** Book project: A great photo is attached to the D31 card! [pic.twitter.com/YNL31CVC](http://pic.twitter.com/YNL31CVC)




**Grade 7** will soon add the digestive system! [pic.twitter.com/P6ioAZRX14](http://pic.twitter.com/P6ioAZRX14)



**Grade 3** sews as part of the pilgrim project. [pic.twitter.com/dGv0d7q5SH](http://pic.twitter.com/dGv0d7q5SH)



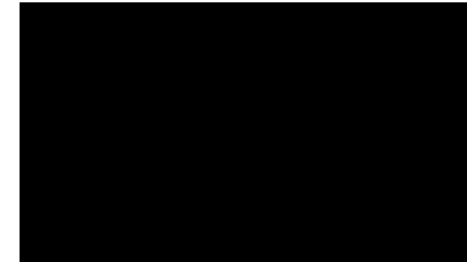
**Karen Whitaker** @vavandus 22 May  
Some third grade students and teachers clearing up the school courtyard as part of a PBL project - great job! [pic.twitter.com/2led7qtd5W](http://pic.twitter.com/2led7qtd5W)  
RT @whitaker by Laurie Hunter



## Technology as a Tool

- ▶ Student productivity and creation
- ▶ Assessment Opportunity
- ▶ Audiences Both Local and Global
- ▶ 21<sup>st</sup> Century Skills
- ▶ Collaboration

## Kindergarten



App Smashing for Kindergarten - DrawingPad + Puppet Pals

## Grade 2



Using Explain Everything to demonstrate understanding of telling time




Grade 5 Interactive Book Reviews

## STEM and Math Tech Courses

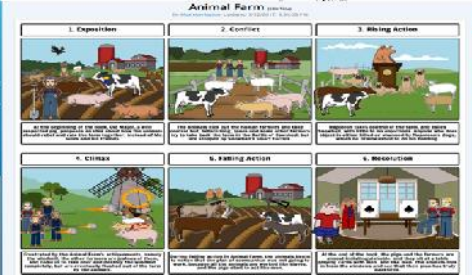
DMS STEM class building their Lego robots. Thank you DEF for sponsoring the materials and training!  
[pic.twitter.com/xHc9b5qV2i](https://pic.twitter.com/xHc9b5qV2i)




## Middle School English



Wanted Poster  
Characterization

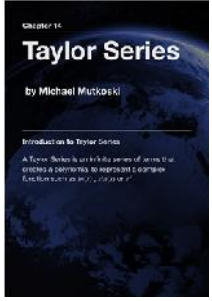


Digital Storyboard




Grammar Tutorial

## High School Calculus?!

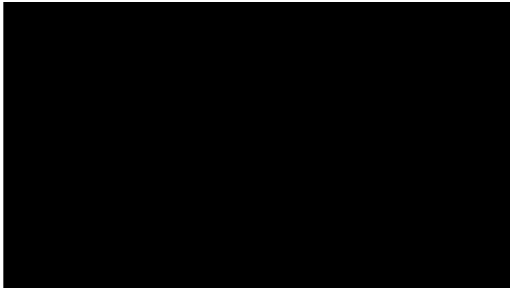


**Taylor Series**  
by Michael Munkoski




**Buckshank**  
Michael Munkoski

## Math Tech Applied Course

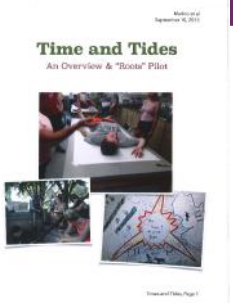


## Outdoor Learning Area

- ▶ [Duxburrow Outdoor Learning Area](#)
- ▶ Multiple Community Organizations
- ▶ Tech Ed Built
- ▶ Biology Class Projects
- ▶ Used By All Subjects
- ▶ Elementary Reading Project
- ▶ Butterfly Garden
- ▶ What Else?



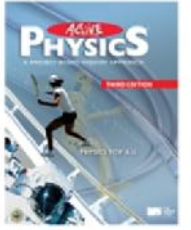

## Time and Tides



- Concord-Carlisle Rivers and Revolutions Program
- Pilot August 2015
- Duxbury Education Foundation Funded Pilot
- Thematic
- Student Driven
- Integration
- Classroom and Community
- Now What?

## Active Physics

- ▶ Year Long Full Physics Course Using PBL
- ▶ Publisher: It's About Time
- ▶ Dr. Arthur Eisenkraft UMASS Boston





## Makerspace

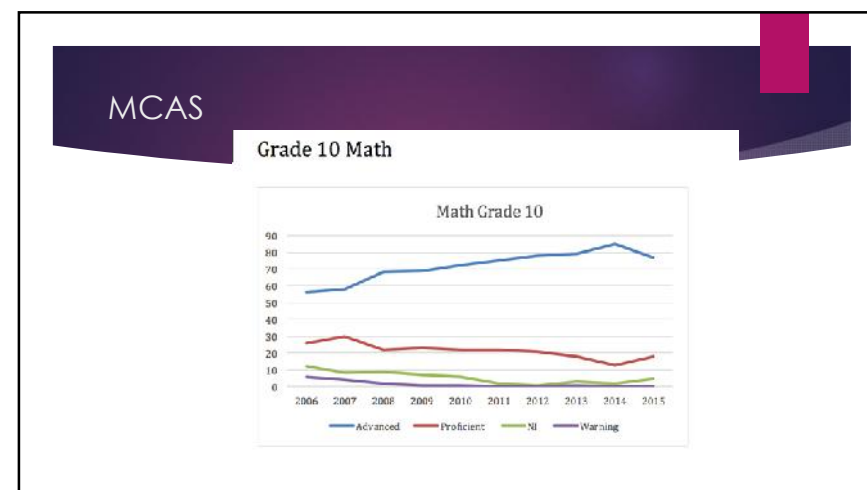
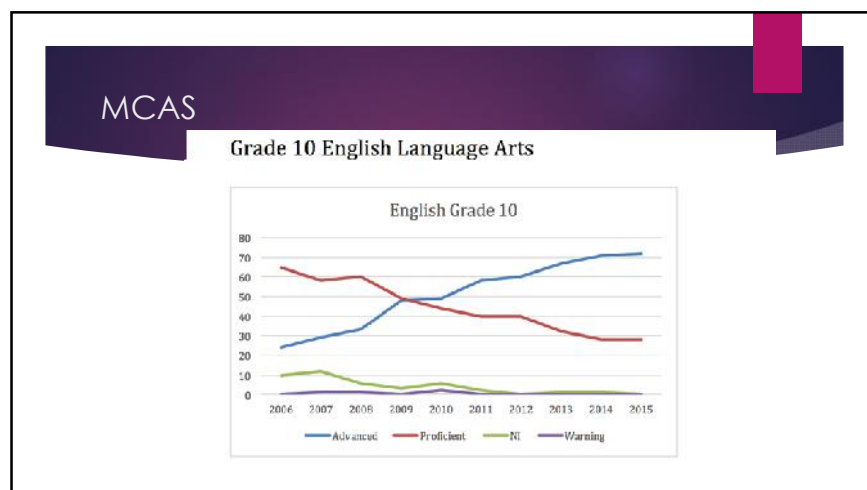
- ▶ Teacher Initiatives I
- ▶ Aiken Elementary School
- ▶ DMS/DL'S Library

MAKERSPACE  
A PLACE WHERE STUDENTS CAN CREATE, DESIGN, THINK, AND BUILD.

MAKEYMAKEY  
Created at MIT, it is a kit to turn everyday objects into fun electronics & more.

## Content Based Projects

- ▶ All departments are participating in professional development
- ▶ What does PBL mean in my classroom?
- ▶ Where is the starting point?
  - ▶ Math Practices
  - ▶ Proficiency
  - ▶ Next Generation Science Standards



## Where Can Strategic Planning Go?

The screenshot shows two overlapping web pages. The top page is from DYSART (Unified School District) and features a section for 'Innovation Academy'. The text describes a personalized learning environment using digital tools and project-based instruction. The bottom page is from Vista Unified School District and features a 'Blueprint for Educational Excellence and Innovation' for the 2017-2020 period, with a 'PROJECT LEAD' role.

**DYSART**  
Unified School District

Start Login Our Schools

Parents Students Community Careers

### Innovation Academy

The District Innovation Academy provides a personalized learning environment for students in grades 5-12. Utilizing digital learning tools and relevant, project-based instructional approaches, the academy personalizes education for students by addressing the diverse learning needs, interests, and aspirations of individual students. In this personalized learning environment, the students move from a "one-size-fits-all" approach to student-centered learning.

Space is limited. [Click here to enroll your student.](#)

**innovation academy**

**VISTA UNIFIED SCHOOL DISTRICT**  
EXCELLENCE ★ INNOVATION

Home Board of Education Special Education Blueprint Our Schools Departments Parents Students

### Blueprint for Educational Excellence and Innovation

2017-2020 BLUEPRINT REVISION PROJECT LEAD

## More Information

Duxbury Public Schools  
Web page: [www.duxbury.k12.ma.us](http://www.duxbury.k12.ma.us)  
Laurie Hunter, Assistant Superintendent  
Email: [lhunter@duxbury.k12.ma.us](mailto:lhunter@duxbury.k12.ma.us)