

Update on Science at WMS

WELLESLEY
PUBLIC SCHOOLS

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What, How, and Why

- **What** students learn
= Curriculum
- **How** students learn
= Pedagogy & Engagement
- **Why** students learn
= District Vision

Innovative Education

- What does Science look like for MS students in Wellesley?
 - Current
 - Proposed
- How are our Teachers preparing to transform student learning experiences?
 - Earth Science Pilot
 - “Find the Narrative”
 - Process & Vision

What we're doing now...

- BioTech: MIT & BioBuilder
- Computer Science:
code.org/MassCAN
- Afterschool Clubs
 - Science Olympiad (Go Mr. J!)
 - Women's CS Coding at WHS
- Reaching all students
 - Summer Splash, Math, STEM, and CS
 - Curriculum & Instruction

What: Curriculum Review Process

- Opportunities to
 - “go STEAM”
 - collaborate w/colleagues & experts
 - engage w/hands-on materials
- Physics & Earth Science Pilots
- Lesson study & Coordinated refinement

HOW? *What the District can support...*

- PEDAGOGY
 - Coordinated Professional Learning
 - Evidence-based instruction
 - Expertise in content, craft in delivery

- ENGAGEMENT
 - Understanding students
 - Opening access to content
 - Fostering Play, Passion, Purpose*

*see Tony Wagner's *Creating Innovators*

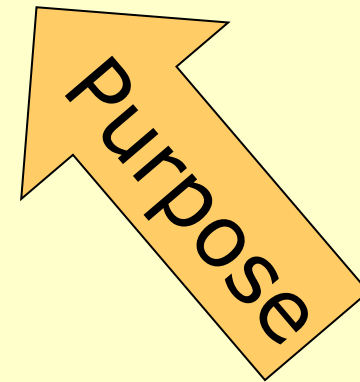
When: Curriculum Review Timeline

	Science	Visual Arts	Mathematics
	Develop STEAM Vision		
SY13-14	Pilot ES Research L&PS		
SY14-15	Pilot L&PS Implement ES	Research	
SY15-16	Refine & Extend	Pilot	Research
SY16-17	Refine & Extend	Implement	Pilot
SY17-18	Refine & Extend	Refine & Extend	Implement

Why: District Vision



WPS aspires to be a world-class school system that develops the heads, hearts, and hands of its students and inspires them to be the critical thinkers, problem-solvers, artists and innovators who make contributions to their communities, our nation, and the world.



Questions & Discussion