

Harmony Public Schools

Project Based Learning

2013-2014

PBL: Definition

Project Based Learning is a constructivist instructional approach where students are engaged in meaningful inquiry of personal interest to them and where collaboration and personalized learning are emphasized.

Adapted from Buck Institute of Education

PBL: Composition

The 8 essential components of PBL –

1. Significant content from standards
2. Need to know sparked by an entry event
3. Driving question
4. Student choice and voice

Adapted from Buck Institute of Education

PBL: Composition

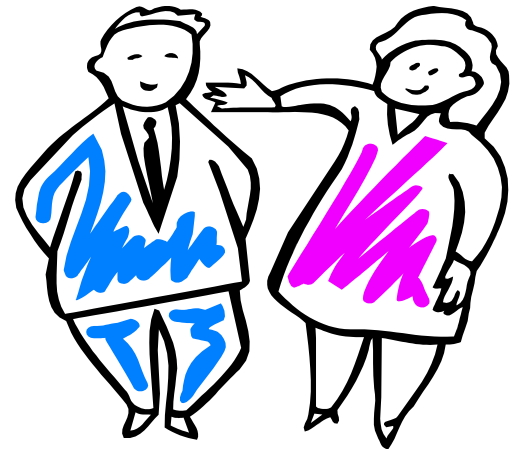
The 8 essential components of PBL – continued

5. 21st century skills - critical thinking, collaboration, communication
6. Inquiry and innovation
7. Feedback and revision
8. Publicly presented product

Adapted from Buck Institute of Education

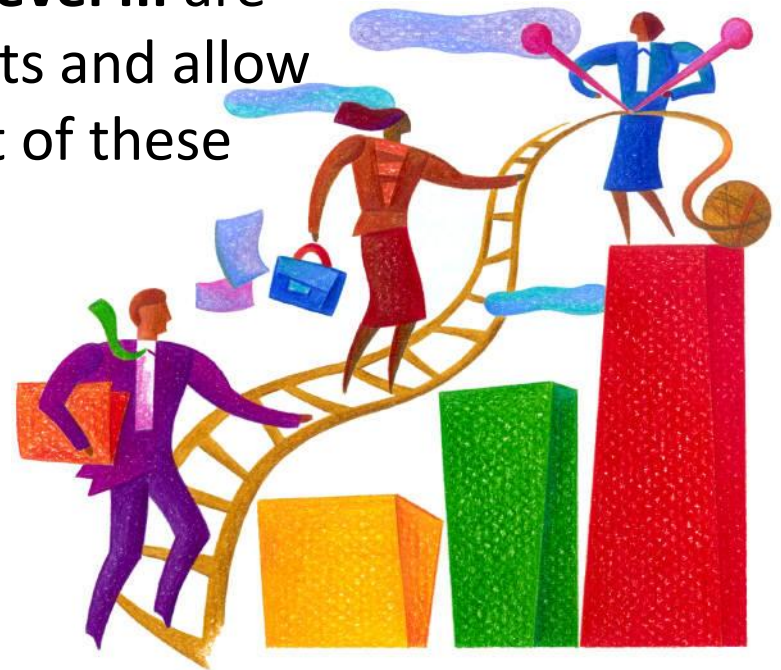
Harmony PBL Approach

The Harmony approach is to maintain the focus on standards-based teaching while enriching and extending the learning of students through PBL projects. The goal is to promote not only collaborative skills and student ownership of learning but also to promote student success in state and national standards.



Harmony PBL Levels

Students experience PBL projects at various levels; **Level I** is a short term project and targets 21st century skills within the context of the curriculum and **Level II& Level III** are year-long interdisciplinary projects and allow the application and development of these critical skills.



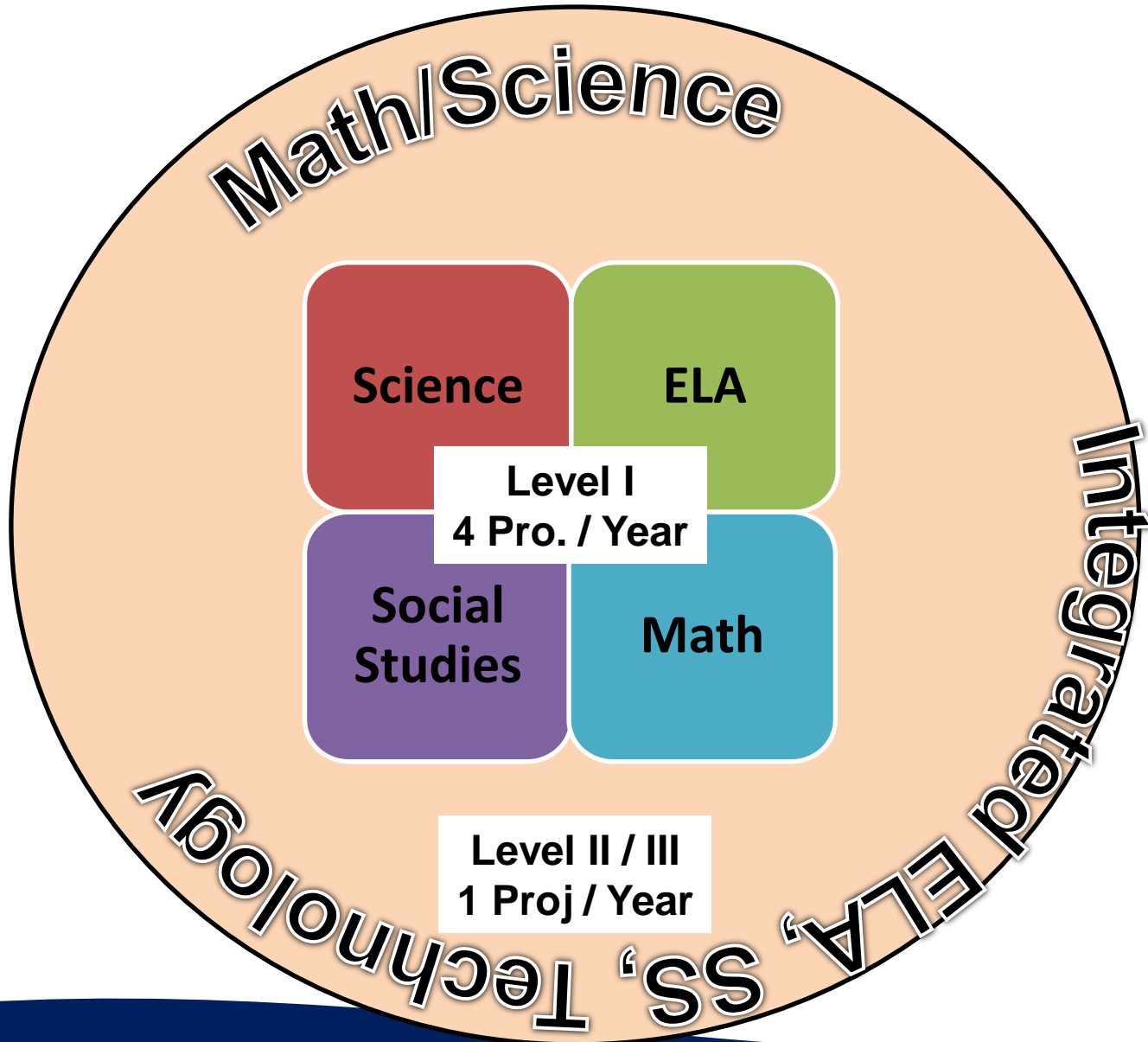
Framework-Middle School

Levels	Content/Courses	# of Projects	Allotted Time	Structure	Technology Integration
Level I	English	1 Project each Semester	1 week	Group work (3-4 students per group)	Digital Photo Gallery Presentation (optional)
	Math	1 Project each Semester	1 week	Group work (3-4 students per group)	1 Digital Photo Gallery Presentation per year
	Social Studies	1 Project each Semester	1 week	Group work (3-4 students per group)	Digital Photo Gallery Presentation (optional)
	Science	1 Project each Semester	1 week	Group work (3-4 students per group)	1 Digital Photo Gallery Presentation per year
Level II	Math/Science /Engineering	1 Holistic Project each Year	Year long	Individual work	1 Video Presentation + (HPS Digital Contest)

Framework- High School

Levels	Courses	# of Projects	Allotted Time	Structure	Technology Integration
Level I	English	2 Projects each Semester	1 week	Group work (3-4 students per group)	Digital Photo Gallery Presentation (optional)
	Math	2 Projects each Semester	1 week	Group work (3-4 students per group)	1 Digital Photo Gallery Presentation per semester
	Social Studies	2 Projects each Semester	1 week	Group work (3-4 students per group)	Digital Photo Gallery Presentation (optional)
	Science	2 Projects each Semester	1 week	Group work (3-4 students per group)	1 Digital Photo Gallery Presentation per semester
Level II	Math/ Science with integrated ELA ,Social Studies,& Technology	1 Inter-disciplinary Project each Year	Year long	Individual work	Presentation through video, website and brochure + (HPS Digital Contest)
Or Level III	Math/ Science with integrated ELA ,Social Studies,& Technology	1 Inter-disciplinary Project each Year	Year long	Individual work	Presentation through video, website and brochure + (HPS Digital Contest)

PBL at *Harmony*



PBL - Resources

Resources Website:

www.pbl.harmonytx.org

- **For students** : Project Handouts, Guides, Tutorials(Paper-based, video tutorials)
- **For Teachers:** Teacher version handouts, Guides, Tutorials
- **Administrators:** Information booklet, tools to track the progress of their schools

Share and Shine Approach

Harmony STEM believes that students become actively engaged in STEM, share their work in collaborative and social settings, and shine through presentations, displays, and competitions. The Harmony STEM Share and Shine approach makes STEM engagement socially desirable for students

STEM Events

- *Class and School-wide presentations*
- *Campus-wide Stem Festivals*
- *Campus-wide/Regional/State Science Fairs*
- *Presentations to school visitors*
- *I-SWEEEP Public Day: STEM EXPO*
- Digital Presentation Contest(Middle and High School)- STEM DISTCO
- Website Contest(High School)