Sandwich STEM Academy

School Improvement Plan 2016-17

Goal 1: **Identify those students who are experiencing difficulty with reading and/or math skills and provide various intervention strategies.**

Objective/Action	Person(s) Responsible	Time Frame	Resources	Evaluation
1. **To work with core teachers to identify students.**	**7-12 department chairs and teachers**	**Yearlong goal: 2016-17**		**Classroom observations; Formative assessments and benchmarks; Team meetings**
2. **Work with parents to determine appropriate electives (ELA and math); Math MCAS prep;**	**7-12 department chairs; Teachers; Administration; School counselors**	**2016-17**	**Communication system including Power School**	**Parent meetings; Emails; Phone conversations**
3. **Assist elective teachers in differentiation and aligning electives with core standards.**	**7-12 department chairs; Administration**	**2016-17**	**Professional development; Software (IXL)**	**Classroom observations; Teacher evaluations; MCAS scores; Team meetings**
4. **Expansion of homework lab from one day a week to three days a week.**	**Administration; Classroom teachers**	**2016-17**	**Teacher and parent recommendations.**	**Records of student participation.**

**DISTRICT GOALS: Curriculum and Instruction
                            Equity and Excellence**

Goal 2: STEM Academy classes will include writing across the curriculum using a school-wide rubric developed by STEM ELA teachers.

Objective/Action	Person(s) Responsible	Time Frame	Resources	Evaluation
1. Share writing rubric with full faculty.	ELA Department chair and ELA teachers	2016	Late start time; Faculty meetings;	Writing requirements in all classes
2. Implement writing rubric in all disciplines including electives	Teachers	2016-17	Used in classes	Evidence of the use of the rubric in all classes; Administration observations;
3. Collect student writing samples using rubric for assessment.	Teachers; 7-12 Department Chairs	2016-17	ELA staff assisting at team and faculty meetings.	Reviewing samples of student writing.
4. Include writing requirements in student SMART goals.	Administration; 7-12 Department Chairs	2016-17	Annual goal meetings.	Mid-year review and formative assessment; teacher evidence in evaluations.

DISTRICT GOALS: Curriculum and Instruction

Goal 3: The STEM Academy administration is committed to the development of a culture of collaboration.

Objective/Action	Person(s) Responsible	Time Frame	Resources	Evaluation
1. **Sharing of Project Based Learning activities.**	**Teachers; Administration**	**2016-17**	**Google platforms; Web site; Faculty meetings; Team meetings**	**Teacher evaluations; Faculty and team meetings**
2. **Faculty designed meetings and late starts (faculty input in professional development)**	**Teachers**	**2016-17**	**Team, faculty, and common preparation times.**	**Reports from teachers; Teacher evidence**
3. **Continuation of a collaborative design team**	**Teachers; Faculty member as chair.**	**2016-17**		**Agendas and minutes of CDT meetings shared with full faculty; Faculty input into agenda development**
4. **Collection of data from team**	**Teachers: Administration**	**2016-17**	**Google docs; Emails; Evidence in teacher folder**	**Collaboration standard in teacher evaluation.**

DISTRICT GOALS: Culture and Climate
Curriculum & Instruction
Equity & Excellence

Goal 4 – Now, in its third year, the STEM Academy will focus on transitioning to project based assessments.

Objective/Action	Person(s) Responsible	Time Frame	Resources	Evaluation
1. Have all staff complete the PBL 101 class taught by BIE.	BIE representatives	Summer 2016	BIE publications; Online resources	Teacher evaluations
2. Develop rubrics for subject areas and across subject areas.	7-12 Department chairs; Teachers	2016-17	Google docs; STEM web site	Teacher evaluations
3. Use of faculty, team, and late start meetings for project presentations and peer review.	Administration	2016-17	Rubrics; Google platforms	Faculty share and assess data regarding student projects.
4. School-wide student presentations (art show, robotics competition, community presentations, geography bee).	Teachers; Administration	2016-17	Chrome books; Library resources; Support from STEM Advisory Boards	Assessment of events and projects by faculty and administration.

DISTRICT GOALS: Curriculum & Excellence
Equity & Excellence