E. Hale Curran
STEM Implementation Plan
2016-17

Year 3 – Technology
  Essential Questions: What role or purpose does technology have in learning?
                          How can technology allow students to become creators, producers, and or
                          critics?
                          How can we improve student achievement by integrating technology as a tool
                          to enhance learning? .

Infrastructure: Is a structure and process in place to support the program's mission, vision and goals?			
Action Steps	**Who's Responsible**	**Timeline**	**Resources**
Classrooms are designed and organized for student collaborative work	Classroom Teachers	Aug. - June	Staff;
Teachers and students have increased access to technology within the classroom and with flexible computer lab time	Technology Team; Classroom Teachers	Aug. - June	E. Hale Curran Technology Plan; Lab Schedules
Teachers use school website to communicate STEM activities	Technology Team; TOSA-Melissa Grabarketwitz; Classroom Teachers	Aug. - June	MVUSD Website; E. Hale Curran Website
STEM is showcased in the community via district sponsored events	STEM Leadership Team; Karen Parris	Jan. - June	STEM Projects
Community members are invited to participate in some classroom activities	STEM Leadership Team; Classroom Teachers	Aug. - June	STEM Projects
Develop STEM partnerships – Business and Community	TOSA Melissa Grabarkewitz	Aug. - June	Murrieta Community

Revised 6-14-16

| STEM Expo | Leadership Team; TOSA; Classroom Teachers | April | STEM student demonstrations and work samples |

Instruction: Does the instruction environment provide time and professional development for educators to develop and improve their craft of pedagogy and content?

Action Steps	Who's Responsible	Timeline	Resources
PLC Meetings used to learn about, research, discuss, plan and share ideas related to STEM	PLC Teams	As per district PLC calendar	PLC Agendas;
Grade level Data Meetings used for data analysis	Administration; grade level teams; Learning Center Team; School Counselor	Aug. – June – Weekly as per data meeting calendar	Formative & summative assessments; SAM; Haiku; EDAMS; CAASP
Grade level STEM Collaboration Meeting used for data analysis	Pam Roden; Grade level teams; TOSA – Melissa Grabarkewitz	Aug. – June – Weekly as per STEM collaboration calendar	NGSS Standards; STEMscopes; UBD template; Sci 5 & 5 E's planning templates; Professional STEM articles and research; Webinars
STEM Teacher Focused Walk-Throughs	STEM teachers	Aug. - June	Substitute costs
PD Staff Meetings – STEM focus	Administration	Monthly Staff Meetings	STEM PD Topics
Student Tech Leaders (STL)	TOSA – Melissa Grabarkewitz		
CUE Conference	STEM Leadership Team	March 2017	Conference fees; substitute costs
California STEM Conference	Classroom Teachers	Oct. 2016	Conference fees; substitute costs
Riverside County STEM Network Meetings	TOSA	Quarterly	Substitute Costs

Curriculum: Is our STEM curriculum aligned to the California Common Core State Standards and Next Generation Science Standards?

Action Steps	Who's Responsible	Timeline	Resources
Next Generation Science Standards Professional Development	TOSA – Melissa Grabarkewitz	Ongoing	STEM Collaboration; PLC meetings
E. Hale Curran Technology Scope and Sequence	TOSA – Melissa Grabarkewitz; classroom teachers	Aug 2016	E. Hale Curran Tech Plan

Revised 6-14-16

Science A – Z Curriculum	Classroom Teachers	Aug. - June	Learning A-Z Site Licenses
STEM Lab (Exploratorium)	TOSA – Melissa Grabarkewitz	Aug - June	
STEMscopes	Classroom Teachers	Aug - June	STEMscopes
Haiku Learning (Learning Management System)	TOSA – Melissa Grabakewitz; Classroom teachers		
UBD Planning	Classroom teachers; TOSA – Melissa Grabarkewitz	Aug. June	Defined STEM
Project –Based Learning	Classroom teachers	Aug - June	Curran STEM Vertical Alignment
STEM Vertical Alignment	TOSA – Melissa Grabarkewitz	Aug. 2016	NGSS
MVUSD Science Steering Committee	Melissa Grabarkewitz; Kayla Olley	As determined by committee	Substitute costs
E. Hale Curran Tech Plan	ITC & ITL	Aug. - June	3 Year Plan

Extended Learning: Does our STEM program offer opportunities outside of the school day?			
Action Steps	**Who's Responsible**	**Timeline**	**Resources**
Computer Labs opened before and after school	TOSA; Learning Center Team	Ongoing – Sept. - June	Staff for supervision
STEM Lab extended hours – Robotics; Maker Space; Engineering Club	TOSA		Staff for supervision
Odyssey of the Mind	Odyssey of the Mind Lead Teacher	Jan. - June	Registration fees; Material fees
Discovery Classes	Teachers	4 weeks/semester	Material fees; Stipends
STEM Family Events (Science Night, Engineering Night; Math Night)	TOSA – Melissa Grabarkewitz	Aug - June	Materials

Revised 6-14-16