S.T.E.A.M. Knowing Science (P-6)- Next generation Science Standards program

Grade	Science	Technology	Engineering	Art	Math	Co-curricular
3	Knowing Science Distance & Motion Balanced and Unbalanced Forces Magnets Design and Building Plant & Animal Cycles Knowing Science	80 8		l l	 Review linear measurement Patterns Measurement and distance Time Measuring distance 	Junior Lego League
4		Code.org- 20 hour	Experimental	3D Art & design	using time • Sequencing	Junior Lego
7	 Distance & Motion The Energy Cycle Renewable & Nonrenewable energy Crayfish Plant Structure 	class (Library)Basic Circuit TheoryCollaboration- E	Design • Earthquake Engineering xperimental design product body part for a craylogue.	blems i.e.	 Measurement: distance, time, force, weight Data collection, representation and interpretation Angle of a slope Volume Amplitude and 	League
5	 Knowing Science Matter Ecosystems The Earth Surface Space 	In Technology class-simulation apps i.e.	- explore engineering Sim City	Art - Intro to Design Form, Function and Ergonomics	 wavelength Place value, decimals and fractions Multi digit whole number & decimals Addition, subtraction multiplication & division of fractions 	 Environmental Club Community Action Club MineCraft club LEGO – Club
	Collaboration- Interd	isciplinary project in S	cience, Technology and	Problem solving with coordinate plane	open to Grade 5, 6 and 7	
6	Knowing ScienceMatterEarth & SpaceLife Science TBD		Forces & MotionWaves & Energy	ART – Elements of design	 Ratios and unit rates Arithmetic operations Rational numbers Expressions and equations Area, Surface & volume 	MineCraft club

					Statistics	
7		Minecraft – explore use of student generated 'worlds' in Humanities curriculum Interdisciplinary Environ ccience, Technology, Ar		_	 Ratios and proportional relationships Rational Numbers Expression and equations Percent and proportional relationships Geometry As part of double period Algebra: Quarterly projects: Roller Coasters Rocketry Little Bits TBD 	 Competitive Team (Gr. 7 only) MineCraft club
8	Mineola Science Life Earth & Space Physical Regents Earth Science select students (NGSS to be implemented 2015-16)			Design and produce art using a 3D printer		• First Tech Challenge Club for Grades 8 & 9
9	Regents Earth Science	Exploring computer science • Q1-humans and computers • Q2-Coding • Q3-Robotics • Q4- App development	•		•	• First Tech Challenge Club for Grades 8 & 9
Elective Choice			Draw, Design Production Course to include: Makerbot	Form, function, material selection Graphic Design – icon & sprite creation, digital app creation,		