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 	AV Rover	Measuring Weather lesign solutions to wea	3D Art & design	 Review linear measurement Patterns Measurement and 	Junior Lego League	
		problems. i.e. design house to withstand hurricane force winds.			distance Time Measuring distance using time		
4	 Knowing Science Distance & Motion The Energy Cycle Renewable & Nonrenewable energy Crayfish Plant Structure 	Code.org- 20 hour class (Library) Basic Circuit Theory	 Experimental Design Earthquake Engineering 	3D Art & design	 Sequencing Measurement: distance, time, force, weight Data collection, representation and interpretation 	Junior Lego League	
		Collaboration- Experimental design problems i.e. design a prosthetic body part for a crayfish that has 'lost' a body part			 Angle of a slope Volume Amplitude and wavelength 		
5	 Knowing Science Matter Ecosystems The Earth Surface Space 	In Technology class- simulation apps i.e. S		Art - Intro to Design Form, Function and Ergonomics	 Place value, decimals and fractions Function and nomics Multi digit whole number & decimals Addition, subtraction multiplication & 		
	Collaboration- Interd	isciplinary project in Sc	cience, Technology and	d Art on Water	division of fractions • Problem solving with coordinate plane	• LEGO – Club 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 	MineCraft club	

7	I I	Minecraft – explore use of student generated 'worlds' in Humanities curriculum Interdisciplinary Enviror cience, Technology, Art	•	_	 Area, Surface & volume Statistics Ratios and proportional relationships Rational Numbers Expression and equations Percent and proportional 	 Competitive Team (Gr. 7 only) MineCraft club
					relationships • Geometry	
8	Mineola Science Life Earth & Space Physical Regents Earth Science select students (NGSS to be implemented 2015-16)				As part of double period Algebra: Quarterly projects: Fibonacci Photography ABC's of Mathematics Program a friend Digest this! Build a Bobsled	• 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