Saint Theresa of Avila School- West Roxbury, MA
Curriculum Maps

Subject: Science	Grade: 3

Time Frame	Essential Question	Topic	Content	Resources	Assessments	Standards
September	How do plants grow and change?	Classifying plants Photosynthesis	Flowering and nonflowering plants Spores Rainforest plants What plants need How leaves help plants Inquiry activities: ● How do plants change? ● How does sunlight affect plant survival?	Pearson, Interactive Science, Grade 3 textbook Pearson, Interactive Science Teacher's Edition and Resource manual Interactive Science science kit supplies Videos and activities www.pearsonrealize.com www.superteacherworksheets.com www.teacherspayteachers.com resources Science journals	Teacher created study guides Tests and quizzes from Pearson's Teacher's Edition and Resources Assessments from Pearson website: www.pearsonrealize.com Pearson Test Generator CD	3-LS3-1 3-LS4-2
October	How do plants grow and change? (continued)	Roots and stems help plants grow Flowers and cones for reproduction Life cycles of some plants	Functions and types of roots Functions and types of stems Reproduction Parts of a flower How seeds grow	Pearson, Interactive Science, Grade 3 textbook Pearson, Interactive Science Teacher's Edition and Resource manual	Teacher created study guides Tests and quizzes from Pearson's Teacher's Edition and Resources	3-LS3-1 3-LS4-2 3-LS1-1

October continued			Cones help plants Definition of life cycle Life cycle of a flowering plant Life cycle of a conifer plant Life cycle length Inquiry activities: ● Which way will roots grow? ● What is inside a seed? ● How does water move through celery?	Interactive Science science kit supplies Videos and activities www.pearsonrealize.com www.superteacherworksheets.com www.teacherspayteachers.com resources Science journals	Assessments from Pearson website: www.pearsonrealize.com Pearson Test Generator CD	
November	How do living things grow and change?	Classifying animals Ways offspring are like their parents Life cycles of some animals	Traits Vertebrates and invertebrates Animal birth (eggs, live birth) Inherited and acquired characteristics Inherited behaviors Learned behaviors Differences in traits that help/harm animals Life cycle of a butterfly Life cycle of a mammal Inquiry activities: ● How does a backbone move?	Pearson, Interactive Science, Grade 3 textbook Pearson, Interactive Science Teacher's Edition and Resource manual Interactive Science science kit supplies Videos and activities www.pearsonrealize.com www.superteacherworksheets.com www.teacherspayteachers.com resources Science journals	Teacher created study guides Tests and quizzes from Pearson's Teacher's Edition and Resources Assessments from Pearson website: www.pearsonrealize.com Pearson Test Generator CD	3-LS1-1 3-LS3-1 3-LS3-2 3-LS4-2 3-LS4-3

			• What is the life cycle of a grain beetle? • What do leaves have in common?	mealworms		
December	How do living things interact?	Ecosystems How living things get energy	Parts of an ecosystem Habitats Groups within ecosystems Changes in ecosystems Food chains and food webs	Pearson, Interactive Science, Grade 3 textbook Pearson, Interactive Science Teacher's Edition and Resource manual Interactive Science science kit supplies Videos and activities www.pearsonrealize.com www.superteacherworksheets.com www.teacherspayteachers.com resources Science journals	Teacher created study guides Tests and quizzes from Pearson's Teacher's Edition and Resources Assessments from Pearson website: www.pearsonrealize.com Pearson Test Generator CD	3-LS2-1 3-LS3-2 3-LS4-3
January	How do living things interact? (continued)	Changes in ecosystems Fossils	Living things change ecosystems Natural events change ecosystems	Pearson, Interactive Science, Grade 3 textbook Pearson, Interactive Science Teacher's Edition and Resource manual	Teacher created study guides Tests and quizzes from Pearson's Teacher's Edition and Resources	3-LS4-1 3-LS4-4

			Events that result in the creation of fossils Inquiry activities: ● How can pollution affect an organism? ● What can a fossil tell you?	Interactive Science science kit supplies Videos and activities www.pearsonrealize.com www.superteacherworksheets.com www.teacherspayteachers.com resources Science journals	Assessments from Pearson website: www.pearsonrealize.com Pearson Test Generator CD Habitat dioramas	
February	How does weather change over time?	Water cycle Weather and climate Tools to measure weather	Water on Earth Steps of the water cycle Recognizing the difference between weather and climate Factors that affect climate Thermometers, rain gauge, anemometer, barometer Inquiry activities: ● What is the daily temperature? ● How does an anemometer work?	Pearson, Interactive Science, Grade 3 textbook Pearson, Interactive Science Teacher's Edition and Resource manual Interactive Science science kit supplies Videos and activities www.pearsonrealize.com Science journals	Teacher created study guides Assessments from Pearson website: www.pearsonrealize.com Pearson Test Generator CD	3-ESS2-1 3-ESS2-2 3-ESS3-1

March	What forces cause motion?	Motion How forces affect motion Gravity	Position and motion Constant and variable speed Balanced and unbalanced forces Magnetism Gravity Effects of mass and friction	Pearson, Interactive Science, Grade 3 textbook Pearson, Interactive Science Teacher's Edition and Resource manual Interactive Science science kit supplies Videos and activities www.pearsonrealize.com www.superteacherworksheets.com Science journals	Teacher created study guides Assessments from Pearson website: www.pearsonrealize.com Pearson Test Generator CD	3-PS2-1 3-PS2-3 3-PS2-4
April	What are technologies and who designs them? How can we construct a prototype to solve a problem?	Technology Engineering Design Process Transportation engineering Magnetic levitation	Technology around us: Technology in a bag Definition of technology, engineers, transportation engineers through literature Use of Engineering Design Process Properties of magnets Construction of maglev systems	Engineering is Elementary: *The Attraction is Obvious*, *Designing Maglev Systems* Hikaru's Toy Troubles student copies Materials from EiE Maglev kit www.superteacherworksheets.com www.teacherspayteachers.com	Teacher created comprehension test for Hikaru's Toy Troubles Response sheets, assessment sheets from manual: Engineering is Elementary: *The Attraction is Obvious*, *Designing Maglev Systems* Videos, resources from EiE website: https://www.eie.org/ Maglev group work/construction	3.3-5ETS1-1 3.3-5ETS1-2 3.3-5ETS1-4 3-PS2-3

May	What are the forms of energy? How can energy change?	Some forms of energy Energy changes form Light and matter interact Heat and light energy	Definitions of electrical energy, light energy, mechanical energy, sound energy Potential/kinetic energy How energy travels/waves Path of light ● reflects ● retracts ● absorbs Thermal energy Inquiry activities: ● How can energy of motion change? ● What can produce potential energy? ● What happens when light is reflected in may directions? ● What can affect the sound made by a rubber band?	Pearson, Interactive Science, Grade 3 textbook Pearson, Interactive Science Teacher's Edition and Resource manual Interactive Science science kit supplies Videos and activities www.pearsonrealize.com www.superteacherworksheets.com Science journals	Teacher created study guides Assessments from Pearson website: www.pearsonrealize.com Pearson Test Generator CD	3-PS2-1
June	What are the forms of energy? How can energy change? continued	Sound energy Electrical energy	How sound travels Volume Pitch Electric currents and circuits Conductors and insulators	Pearson, Interactive Science, Grade 3 textbook Pearson, Interactive Science Teacher's Edition and Resource manual Interactive Science science kit supplies Videos: pearsonrealize.com Science journals	Teacher created study guides Assessments from Pearson website: www.pearsonrealize.com	3-PS2-1