

West Baton Rouge Parish

Model Curriculum Mapping Template

Subject/Grade: SCIENCE/ 6TH GRADE

Textbook: Glencoe Red

Benchmark	GLE	Objective(s)	Text Book Reference/ Resources	Mandatory Activity	Supplemental Activity	Materials	Evaluation
Unit 1: Chemical and Physical Properties							
SI-M-A1 SI-M-A7 SI-M-B1 SI-M-B2 SI-M-B3 SI-M-B5 SI-M-B6 SI-M-B7	3 19 26, 27 28 29 34, 35 38 39, 40	Investigate the origin of a common household item or modern technology.	Glencoe Red – Chapter 18	Activity 1: What's It All About?		Provide a few examples of modern technology or household items.	See: Sample Assessments Comprehensive Curriculum page 11
SI-M-A1 SI-M-A3 SI-M-A4 SI-M-A5 SI-M-A6 SI-M-A7 SI-M-B3 PS-M-A1	1 7, 9 6, 11, 12 16 17 19, 21, 22 31 1, 2	Determine the volume of regular-shaped and irregular –shaped objects	Glencoe Red – Chapter 18	Activity 2: Can You Measure Up?		Plastic bag, irregular objects such as; novelty pencil erasers, carnival trinkets, modeling clay, fishing lead weight, jumbo crayons, blocks, blackboard erasers, etc. Balance scales, gram weights, water, graduated cylinder	See: Sample Assessments Comprehensive Curriculum page 11
SI-M-A3 SI-M-A4 SI-M-A5 SI-M-A6 SI-M-A7 PS-M-A1	6, 7 11, 12 16 17 21, 22 1, 2	Explain how mass and weight are different.	Glencoe Red – Chapter 18	Activity 5: Volume VS. Mass		Objects with same size and shape but with different masses, foil, permanent marker	See: Sample Assessments Comprehensive Curriculum page 11

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SI-M-A1 SI-M-A3 SI-M-A4 SI-M-A5 SI-M-A7 SI-M-A8 SI-M-B3	1,2 7,8 6,10,11,12, 14,15,16 19 23 31	Explain the difference between mass and density. Determine the density of a liquid and a solid.	Glencoe Red – Chapter 18	Activity 3: Density Exploration		Vegetable oil, dark corn syrup, mineral oil, rubbing alcohol, colored dishwashing liquid, water, food coloring, test tubes in holders, pipettes.	See: Sample Assessments Comprehensive Curriculum page 11
SI-M-A2 SI-M-A4	4 12	Examine the effect density has on matter.	Glencoe Red – Chapter 18	Activity 4: Sink or Swim!		Food coloring, water, salt	See: Sample Assessments Comprehensive Curriculum page 11
SI-M-A3 SI-M-A4 SI-M-A7 SI-M-A8 SI-M-B3 PS-M-A1	6, 7, 8 13 19 23 31 1, 2	Compare weight and mass.	Glencoe Red – Chapter 18	Activity 7: Balancing Act		Materials vary	See: Sample Assessments Comprehensive Curriculum page 11
SI-M-A1 SI-M-A2 SI-M-A3 SI-M-A4 SI-M-A7 SI-M-A8 SI-M-B1 SI-M-B4 SI-M-B5	1, 2, 3 4, 5 6, 7 11, 12 19, 22 23 25 33 36	Vocabulary reinforcement	Glencoe Red – Chapter 18	Activity 6: It's All In How You Look At It		Trade books, Internet resources, dictionaries, etc.	See: Sample Assessments Comprehensive Curriculum page 11
SI-M-A3 SI-M-A7 PS-M-A4 PS-M-A5	7, 8 19, 21 6, 7 8	Compare the action of the particles in a solid, a liquid, and a gas.	Glencoe Red – Chapter 18	Activity 8: It Does Matter!		Examples of a solid, liquid, and a gas, air freshener, hot plate, ice	See: Sample Assessments Comprehensive Curriculum page 11
SI-M-A1 SI-M-A3 SI-M-A4 SI-M-A8 PS-M-A3	1 6 12 23 4, 5	Identify chemical and physical properties.	Glencoe Red – Chapter 18	Activity 9: Hey, Sugar!		Hand lens, sugar cube, water, electric skillet.	See: Sample Assessments Comprehensive Curriculum page 11

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SI-M-A1 SI-M-A2 SI-M-A3 SI-M-A4 SI-M-A7 SI-M-A8 PS-M-A3 PS-M-A6 PS-M-C7	2 4 6, 7, 8 12 19, 22 23 4, 5 9 40	Differentiate a physical property from a chemical property.	Glencoe Red – Chapter 18	Activity 10: Changes		Examples of physical and chemical changes	See: Sample Assessments Comprehensive Curriculum page 11
SI-M-A2 SI-M-A7 SI-M-A8 SI-M-B2 PS-M-A3 PS-M-A4	5 20 23 28 5 6	Identify the chemical changes associated with reactions observed in investigations.	Glencoe Red – Chapter 18	Activity 11: Ice Cream in a Bag		Basic ice cream mixture, small freezer bag, thermometer, stop watch, ice, quart-sized plastic bag, rock salt	See: Sample Assessments Comprehensive Curriculum page 11
Unit 2: Elements, Compounds, and Reactions							
SI-M-A1 SI-M-A2 SI-M-A3 SI-M-A4 SI-M-A6 SI-M-A7 SI-M-A8 SI-M-B1 SI-M-B3 SI-M-B4 SI-M-B5 PS-M-A1 PS-M-A3 PS-M-A6 PS-M-A7 PS-M-C7	1, 2 4, 5 6, 7, 8 10, 11, 12 18 22 23 25 31 33 36, 37 1 5 9 11 40	Describe how the mass of the products in a chemical reaction compares with the mass of the reactants in that reaction.	Glencoe Red – Chapter 18	Activity 4: Reaction in a Bag		Plastic cups, gallon sized plastic sealable bags, 5 ml scoops, calcium chloride, salt, diatomaceous earth powder, plastic 9-oz. cups, stirrers, graduated cylinder, water	See: Sample Assessments Comprehensive Curriculum page 23
SI-M-A5 SI-M-A7 PS-M-A7	14 19 10	Model the atomic structure in chemical reactions.	Glencoe Red – Chapter 18	Activity 3: Mystery Elements		Illustrations showing each element's arrangement of electrons, protons, and neutrons.	See: Sample Assessments Comprehensive Curriculum page 23

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SI-M-A1 SI-M-A2 SI-M-A3 SI-M-A4 SI-M-A5 SI-M-A7 SI-M-A8 PS-M-A1 PS-M-A6 PS-M-A8 PS-M-A9	1, 2 4, 5 6, 7, 8 10, 12 16 19 23 1 9 12 13	Recognize and enunciate the factors that determine the rate of a chemical reaction.	Glencoe Red – Chapter 18	Activity 7: We've Got Zip		Effervescent tablets, water, plastic cups, graduated cylinders, thermometers, stopwatches, balance scales	See: Sample Assessments Comprehensive Curriculum page 23
SI-M-A1 SI-M-A4 SI-M-A5 SI-M-A7 SI-M-B2 SI-M-B3 SI-M-B4 SI-M-B5 PS-M-A2 PS-M-A7	3 11, 13 14 19 28 29, 30 34 35 3 10	Research the evolution of the Bohr Model. Explain how an element's mass is determined from the periodic table.		Activity 9: Atomic Models Activity 1: A is for Atom		Internet and/or library search Periodic Table, cardstock	See: Sample Assessments Comprehensive Curriculum page 23
SI-M-A4 SI-M-A5 SI-M-A7 PS-M-A7	10 14 19 10	Explain the difference between covalent and ionic bonding.		Activity 2: Shell Collecting or Making "Happy Atoms"		Illustrations of the elements from Activity 1	See: Sample Assessments Comprehensive Curriculum page 23
SI-M-A1 SI-M-A3 SI-M-A7 SI-M-A8 PS-M-A3 PS-M-B2 PS-M-C2	1, 2 6, 7 19 23 4, 5 18 30	Construct an electric circuit. Identify materials as conductors or nonconductors.	Glencoe Red – Chapter 21	Activity 5: Electrical Conductivity		D batteries, bulbs, wires, masking tape, bulb holders, battery holders, flashlight Cloth, cardboard, metal knock out slugs, foam, clay, lemon peel	See: Sample Assessments Comprehensive Curriculum page 23
SI-M-A1 SI-M-A3 SI-M-A7 SI-M-A8 PS-M-A3 PS-M-A6	2 6,7 19 23 4,5 9	Identify solutions as conductors or nonconductors.	Glencoe Red – Chapter 21	Activity 6: How Will You React to This?		Sugar, salt, water, effervescent tablet, conductivity tester	See: Sample Assessments Comprehensive Curriculum page 23

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SI-M-A1 SI-M-A4 PS-M-A2	3 12 3	Construct a "model" of the hydrogen atom in probability terms.		Activity 8: It's All Probable		Felt-tipped marker, a sheet of paper on which are drawn seven concentric circles, magazine	See: Sample Assessments Comprehensive Curriculum page 23
SI-M-A4 PS-M-A7	11, 22 10	Arrange elements in logical order according to the periodic table		Activity 10: Modeling the Periodic Table		Cards created in Activity 1	See: Sample Assessments Comprehensive Curriculum page 23
SI-M-A1 SI-M-A7 PS-M-A9	3 19 13	Identify the elements in common household chemicals.		Activity 11: What's the Name – Common Chemicals		List of 20 common names of substances.	See: Sample Assessments Comprehensive Curriculum page 23
SI-M-A1 PS-M-A2	3 3	Model a chemical reaction		Activity 12: A Balancing Act			See: Sample Assessments Comprehensive Curriculum page 23

Unit 3: Forces and Motion

SI-M-A7 SI-M-A8	19 23	Develop safety rules for investigations using moving objects.	Glencoe Red – Chapter 19	Activity 1: Safety			See: Sample Assessments Comprehensive Curriculum page 33
SI-M-A1 SI-M-A2 SI-M-A3 SI-M-A4 SI-M-A5 SI-M-A7 SI-M-A8 SI-M-B3 PS-M-B1 PS-M-B2 PS-M-B3 PS-M-B4	1, 2, 3 4, 5 6, 7, 8, 9 11, 12, 13 16 19 23 31, 32 14, 15, 16 17 19, 22 20	State and explain the 3 laws of motion.	Glencoe Red – Chapter 19	Activity 3: Inertia – Newton's First Law Activity 4: Newton's Second Law		Masking tape, stopwatch, basketball, meter stick, calculator Toy wind-up car, various measuring tools, film canister, sand, meter stick, masking tape, stopwatch	See: Sample Assessments Comprehensive Curriculum page 33

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PS-M-B5	23			Activity 7: Newton's Third Law—Class Demonstration and Analysis		Two skateboards	
SI-M-A4 SI-M-B2 PS-M-B1	13 28 15	Describe motion in appropriate scientific terms.	Glencoe Red – Chapter 19	Activity 2: You Need To Speak the Language.			See: Sample Assessments Comprehensive Curriculum page 33
SI-M-A1 SI-M-A2 SI-M-A3 SI-M-A4 SI-M-A5 SI-M-A7 SI-M-A8 SI-M-B4 SI-M-B6 PS-M-B3 PS-M-B4 PS-M-B5	1, 2, 3 4, 5 6, 7, 8 10, 11, 12, 13 14 19, 22 23 33 38 19, 22 20 22, 23, 24	Relate Newton's laws to real life situations.	Glencoe Red – Chapter 19	Activity 5: Catapults Activity 6: Seat Belts-R-U's Activity 8: Newton's Third Law—Boats and Cars		Everyday objects that can be used to create a catapult. Toy car, ramp, meter stick, modeling clay Self-propelled boat or car	See: Sample Assessments Comprehensive Curriculum page 33

Unit 4: Properties of Energy

SI-M-A8	23	Review safety concerns	Glencoe Red –	Activity 1: Safety for Energy Investigations			See: Sample Assessments Comprehensive Curriculum page 33
SI-M-A3 SI-M-A4 SI-M-A7 SI-M-A8 PS-M-C1	7 11 19, 21, 22 23 24, 25	Cite examples of the various forms of energy.	Glencoe Red – Chapters 9 and 20	Activity 2: Home Energy Hunt		Descriptions of the different forms of energy.	See: Sample Assessments Comprehensive Curriculum page 33
SI-M-A1 SI-M-A2 SI-M-A3 SI-M-A4 SI-M-A7 SI-M-A8 PS-M-B1 PS-M-C2 PS-M-C3 PS-M-C4 PS-M-C6	1, 2, 3 4 7, 8 10, 11, 12 19, 22 23 25, 26 28 31 32 39	Describe how various forms of energy are transformed from one form to another.	Glencoe Red – Chapters 9 and 20	Activity 3: Conservation of Energy or Send It, Bounce It, Bend It Activity 10: Wave Modeling with a Coiled Spring Toy		Metal coiled spring	See: Sample Assessments Comprehensive Curriculum page 33

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PS-M-C8 SE-M-A6	41 42, 43, 44, 45, 46	resources.		Energy			Curriculum page 33
SI-M-A1 SI-M-A2 SI-M-A3 SI-M-A4 SI-M-A5 SI-M-A6 SI-M-A7 SI-M-A8 PS-M-C1 PS-M-A6 PS-M-A8	2, 3 4, 5 7, 8 11, 12 14, 16 18 19, 21, 22 23 25 42, 43, 44, 46 47	Identify ways in which people can reuse, reduce, and recycle resources.		Activity 9: Saving Energy @ Home Activity 11: Energy from Garbage		Home energy use survey Sealable plastic bags, dried beans, water	See: Sample Assessments Comprehensive Curriculum page 33
Unit 5: Work, Power, and Efficiency							
SI-M-A1 SI-M-A2 SI-M-A3 SI-M-A4 SI-M-A5 SI-M-A6 SI-M-A7 SI-M-A8 SI-M-B2 SI-M-B5 PS-M-B2 PS-M-B3 PS-M-B4	2 4 6, 7, 8 10, 11, 12 14 18 19, 21, 22 23 28 37 17 19 20	Identify forces such as push, pull, lift, twist, and press.	Glencoe Red – Chapter 19	Activity 1: The Force May Be With You			See: Sample Assessments Comprehensive Curriculum page 45
SI-M-A1 SI-M-A2 SI-M-A3 SI-M-A4 SI-M-A7 SI-M-A8 SI-M-B3 SI-M-B5 PS-M-C1 PS-M-C2	1, 2 4, 5 6, 7, 8 12 21, 22 23 31, 32 36 24 30	Explain the relationship between kinetic energy and potential energy.	Glencoe Red – Chapter 20	Activity 2: Energy Transformations		Inclined plane, empty aluminum can, meter stick, calculators	See: Sample Assessments Comprehensive Curriculum page 45
SI-M-A1 SI-M-A2 SI-M-A3 SI-M-A4 SI-M-A5 SI-M-A7 SI-M-A8	2 4, 5 6, 7, 8, 9 11, 12 14, 16 19, 22 23	Describe the relationship between work input and works output in a simple machine and mathematically determine their	Glencoe Red – Chapter 19	Activity 3: All Roads Lead to Inclined Planes?		Paper triangle, tape, pencil	See: Sample Assessments Comprehensive Curriculum page 45

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SI-M-B3 SI-M-B7 PS-M-C2	36 39 27, 29	quantities.		Activity 4: Work and the Inclined Plane		Spring scale, inclined plane, calculators,	
SI-M-A1 SI-M-A4 SI-M-A5 SI-M-A7 SI-M-B7 PS-M-C2	3 12 14 19 39 27	Conduct research and prepare a presentation on a simple machine.	Glencoe Red – Chapter 19	Activity 5: Simply a Machine			See: Sample Assessments Comprehensive Curriculum page 45
SI-M-A1 SI-M-A2 SI-M-A3 SI-M-A4 SI-M-A5 SI-M-A7 SI-M-A8 SI-M-B5 PS-M-B1 PS-M-B3 PS-M-B4 PS-M-B5 PS-M-C1	1, 2 4 6, 7, 8 11, 12 14 19, 20, 22 23 36 14 19, 22 20, 21 22, 23 24	Trace the energy transformations that occur in the operation of a simple machine.	Glencoe Red – Chapter 19	Activity 6: Bobble Head Physics		Bobble head toys, a collection of supplies	See: Sample Assessments Comprehensive Curriculum page 45
SI-M-A1 SI-M-A2 SI-M-A3 SI-M-A4 SI-M-A7 SI-M-A8 PS-M-C2	2 5 6, 7, 8 11, 12 22 23 29	Measure work and power of a simple machine.	Glencoe Red – Chapter 19	Activity 7: Power		Stairs, scales, stopwatch, calculator	See: Sample Assessments Comprehensive Curriculum page 45
SI-M-A4 SI-M-A5 SI-M-A7 SI-M-B7 PS-M-C2	11 16 22 39 29	Design graphic organizer with relevant terms	Glencoe Red – Chapter 19	Activity 8: Relevance			See: Sample Assessments Comprehensive Curriculum page 45
Unit 6: Energy Use and Renewal							
SI-M-A1 SI-M-A3 SI-M-A7 SI-M-B2 SI-M-B3 SI-M-B5	3 7 19, 22 28 29 34, 37	Identify the present sources of energy used in our society. Tell how these sources of energy	Glencoe Red – Chapters 9 and 20	Activity 1: Creation of Energy Terms		Cards labeled to represent the energy sources.	See: Sample Assessments Comprehensive Curriculum page 54

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SI-M-B6 SI-M-B7 PS-M-C8 SE-M-A6 SE-M-A8	38 39, 40 41 42, 43, 44, 45, 46 47	are used in our society. Classify renewable and nonrenewable energy sources. Determine who is affected by overuse of selected energy sources. Explain potential environmental effects involved in the overuse of selected sources of energy.					
SI-M-A1 SI-M-A7 SI-M-B1 SI-M-B2 SI-M-B3 SI-M-B4 SI-M-B5 SI-M-B6 SI-M-B7 PS-M-C8 SE-M-A6 SE-M-A8	3 19, 22 27 28 29 33 34, 37 38 39, 40 41 42, 43, 44, 45, 46 47	Create an informational brochure.		Activity 2: Planning for the Brochure		Templates for informational brochures	See: Sample Assessments Comprehensive Curriculum page 54
SI-M-A1 SI-M-A6 SI-M-A7 SI-M-B1 SI-M-B2 SI-M-B3 SI-M-B4 SI-M-B5 SI-M-B6 SI-M-B7 PS-M-C8 SE-M-A6 SE-M-A8	3 17, 18 19, 22 25, 26, 27 28 29 33 34, 37 38 39, 40 41 42, 43, 44, 45, 46 47	Small groups will deliver an energy source presentation and will be assessed through a peer evaluation rubric.		Activity 3: Preparation of Oral Presentation		Peer evaluation rubric, presentation visuals	See: Sample Assessments Comprehensive Curriculum page 54