Science 3 – 5 for use with NGSS 2013:

Physical Science: Matter and Its Interactions

Conservation of Mass and Matter

Students	Learning Continuum Statements:
Students:	**RIT 181-190:** • Applies the law of conservation of matter to calculate mass/weight of parts of mixtures
Students:	**RIT 191-200:** • Applies the law of conservation of matter to calculate mass/weight after a chemical change • Applies the law of conservation of matter to determine mass/weight after changes of state • Applies the law of conservation of matter to calculate mass/weight of parts of mixtures
Students:	**RIT 201-210:** • Applies the law of conservation of matter to calculate mass/weight after a chemical change • Applies the law of conservation of matter to determine mass/weight after changes of state • Determines evidence that supports a claim that substances contain matter • Applies the law of conservation of matter to explain the results of investigations involving chemical reactions • Applies conservation of matter to explain results of investigations involving physical changes • Applies the law of conservation of matter to calculate mass/weight of parts of mixtures • Relates changes in temperature and state to changes in thermal energy • Plans investigations to provide evidence of conservation of matter
Students:	**RIT 211-220:** • Applies the law of conservation of matter to calculate mass/weight after a chemical change • Applies the law of conservation of matter to determine mass/weight after changes of state • Recognizes how open containers affect changes in mass during physical changes • Applies the law of conservation of matter to explain the results of investigations

	involving chemical reactions • Applies the law of conservation of matter to calculate mass/weight of parts of mixtures • Relates changes in temperature and state to changes in thermal energy • Plans investigations to provide evidence of conservation of matter
Students:	**RIT 221-230:** • Applies the law of conservation of matter to infer whether systems are open or closed • Applies the law of conservation of matter to calculate mass/weight after a chemical change • Applies the law of conservation of matter to determine mass/weight after changes of state • Applies the law of conservation of matter to explain the results of investigations involving chemical reactions • Relates changes in temperature and state to changes in thermal energy • Plans investigations to provide evidence of conservation of matter