Scope and Sequence for Science/Grade 7
2026-2027

Unit Title	STEELS Standards
Unit One: *Structure and Function* 8/24/2026 – 10/29/2026 **45 Instructional Periods**	3.1.6-8.A Conduct an investigation to provide evidence that living things are made of cells, either one cell or many different numbers and types of cells. 3.1.6-8.B Develop and use a model to describe the function of a cell as a whole and the ways that parts of cells contribute to the function. 3.1.6-8.C Use arguments supported by evidence for how the body is a system of interacting subsystems composed of groups of cells. 3.1.6-8.F Construct a scientific explanation based on evidence for the role of photosynthesis in the cycling of matter and flow of energy into and out of organisms. 3.1.6-8.G Develop a model to describe how food is rearranged through chemical reactions forming new molecules that support growth and/or release energy as this matter moves through an organism. 3.1.6-8.H Gather and synthesize information about how sensory receptors respond to stimuli by sending messages to the brain for immediate behavior or storage as memories.
Unit Two: *Matter and Its Interactions* 10/30/2026 – 4/2/2027 **90 Instructional Periods**	3.2.6-8.A Develop models to describe the atomic composition of simple molecules and extended structures. 3.2.6-8.D Analyze and interpret data on the properties of substances before and after the substances interact to determine if a chemical reaction has occurred. 3.2.6-8.C Gather and make sense of information to describe how synthetic materials come from natural resources and impact society. 3.2.6-8.B Develop a model that predicts and describes changes in the particle motion, temperature, and state of a pure substance when thermal energy is added or removed. 3.2.6-8.E Develop and use a model to describe how the total number of atoms does not change in a chemical reaction and thus mass is conserved. 3.2.6-8.F Undertake a design project to construct, test, and modify a device that either releases or absorbs thermal energy by chemical processes. 3.2.6-8.N Plan an investigation to determine the relationships among the energy transferred, the type of matter, the mass, and the change in the average kinetic energy of the particles as measured by the temperature of the sample.
Unit Three: Earth's Dynamic Systems 4/5/2027 – 6/4/2027 **45 Instructional Periods**	3.3.6-8.D Construct a scientific explanation based on evidence from rock strata for how the geologic time scale is used to organize Earth's 4.6-billion-year old history. 3.3.6-8.F Develop a model to describe the cycling of Earth's materials and the flow of energy that drives this process. 3.3.6-8.E Construct an explanation based on evidence for how geoscience processes have changed Earth's surface at varying time and spatial scales. 3.3.6-8.G Analyze and interpret data on the distribution of fossils and rocks, continental shapes, and seafloor structures to provide evidence of past plate motions. 3.3.6-8.K Construct a scientific explanation based on evidence for how the uneven distributions of Earth's mineral, energy, and groundwater resources are the result of past and current geoscience processes. 3.3.6-8.L Analyze and interpret data on natural hazards to forecast future catastrophic events and inform the development of technologies to mitigate their effects.

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