



East Carter Co. R-II School District  
Course Scope and Sequence

**Course: Physical Science**

# OF DAYS	TOPICS
15	Unit 1: Atomic Structure and the Periodic Table Essential Question: What makes up our world? Concepts: atoms, elements, periodic table, metals, nonmetals, metalloids, and reactivity
15	Unit 2: Properties and Changes of Matter Essential Question: How do the states of matter affect the world? Concepts: states of matter, changes of state, physical properties, chemical properties
25	Unit 3: Chemical Bonding and Reactions Essential Question: How do the parts of our world interact? Concepts: ionic bonds, covalent bonds, chemical reactions, chemical equations, equilibrium
15	Unit 4: Motion and Forces Essential Question: What are the forces that affect our world? Concepts: speed and velocity, acceleration, forces, Newton's Laws of Motion, momentum
15	Unit 5: Energy Essential Question: What fuels the things in our world? Concepts: potential and kinetic energy, energy transformations, temperature and thermal energy, heat, nuclear energy
25	Unit 6: Waves, Sound, and Light Essential Question: What parts of our world are waves? Concepts: properties of waves, plate tectonics, forces in Earth's crust, sound waves, the electromagnetic spectrum, properties of light
15	Unit 7: Electricity and Magnetism Essential Question: What is the impact of electricity on the world? Concepts: electric charge, electric current, Ohm's Law, electric circuits, magnets and magnetism, electromagnetism

15	Unit 8: Earth in the Universe Essential Question: What is Earth's place in the universe? Concepts: the expanding universe, stars, the sun, gravity and motion, Earth-Moon-Sun system, energy in the atmosphere, factors that affect climate
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### **Course Description**

In this course, students will be taught the Missouri Learning Standards for Physical Science. The standards will be taught through 8 units using lecture, labs/experiments, and tests. Everyday students will be exposed to grade level material.