



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

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**Course: 4th Science**

# OF DAYS	TOPICS
23	<p>Unit 1: Energy and Motion Lesson 1: Forces and Motion Objective: Students will construct an explanation to describe the cause and effect relationship between forces and motion. Lesson 2: Speed and Energy Objective: Students will construct an explanation about the relationship between speed and energy. Lesson 3: Energy Transfer in Collisions Objective: Students will ask questions and construct an explanation to describe the transfer of energy when objects collide.</p>
30	<p>Unit 2: Using Energy Lesson 1: Types of Energy Objective: Students will make observations to explain how different types of energy can be transferred in various ways. Lesson 2: Sound and Light Objective: Students will plan and carry out investigations to describe and model how energy transfers with sound and light. Lesson 3: Electricity Objective: Students will use their observations from their investigations to describe how energy is transferred by electric currents. Lesson 4: Heat Objective: Students will plan and carry out investigations to explain how energy can be transferred by heat.</p>

25	<p>Unit 3: Earth and Its Changing Features</p> <p>Lesson 1: Map Earth's Features</p> <p>Objective: Students will use maps to interpret and analyze data to describe patterns in landforms.</p> <p>Lesson 2: Evidence from Rocks and Fossils</p> <p>Objective: Students will construct an explanation about how rock and fossil formations change a landscape over time.</p> <p>Lesson 3: Changes in Landscapes Over Time</p> <p>Objective: Students will plan and carry out investigations to observe the effects to Earth's surface by living and nonliving things.</p>
15	<p>Unit 4: Structures and Functions of Living Things</p> <p>Lesson 1: Structures and Functions of Plants</p> <p>Objective: Students will construct an argument to explain how plants use their structures to survive, grow, and reproduce.</p> <p>Lesson 2: Structures and Functions of Animals</p> <p>Objective: Students will construct an argument to explain how animals use their structures to survive, grow, and reproduce.</p>

### **Course Description**

In this course, students will be taught the Missouri Learning Standards for Science along with fostering a love of Science. This course is broken down into four Units. Each unit has hands-on activities that will require higher order thinking skills.