South Carolina State Standards Science Seventh Grade	Reading Comprehension Series Science	Car Builder	Truck Builder
Inquiry			
Abilities Necessary to do Scientific Inquiry		✔	✔
1. Identify Process Skills That Can Be Used In Scientific Investigations		✔	✔
Observe		✔	✔
Classify	✔	✔	✔
Measure		✔	✔
Infer		✔	✔
Predict		✔	✔
2. Design and Conduct a Scientific Investigation	✔	✔	✔
3. Use appropriate tools and techniques to gather, analyze, and interpret data	✔	✔	✔
4. Develop descriptions, explanations, predictions, and models using evidence		✔	✔
5. Think critically and logically to make relationships between evidence and explanations		✔	✔
6. Recognize and analyze alternative explanations and predictions -		✔	✔
7. Communicate scientific procedures and explanations	✔	✔	✔
8. Use mathematics in all aspects of scientific inquiry		✔	✔
Understanding About Scientific Inquiry			
Different kinds of questions suggest different kinds of scientific investigations		✔	✔
Current scientific knowledge & understanding guide scientific investigation		✔	✔
Mathematics is important in all aspects of scientific inquiry		✔	✔
Technology used to gather data enhances accuracy and allows scientists to analyze and quantify results		✔	✔
Scientific explanations emphasize evidence, have logical consistent arguments & use scientific principle, models & theories		✔	✔
Science advances through legitimate skepticism		✔	✔
Scientific investigations sometimes result in new ideas & phenomena for study		✔	✔

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ABILITIES OF TECHNOLOGICAL DESIGN		✔	✔
1. Identify appropriate problems for technological design		✔	✔
2. Design a solution or product		✔	✔
3. Implement a proposed design		✔	✔
4. Evaluate completed technological designs or products		✔	✔
5. Communicate the process of technological design		✔	✔
UNDERSTANDINGS ABOUT SCIENCE AND TECHNOLOGY		✔	✔
1. Scientific inquiry and technological design have similarities and differences		✔	✔
2. Many different people in different cultures have made and continue to make contributions to science and technology	✔		
3. Science and technology are reciprocal	✔		
4. Perfectly designed solutions do not exist.		✔	✔
5. Technological designs have constraints			
6. Technological solutions have intended benefits and unintended consequences		✔	✔
LIFE SCIENCE			
Unit of Study: Classification, Diversity, & Adaptations of Organisms Over Time	✔		
Diversity and Adaptations of Organisms	✔		
Millions of species of animals, plants, & microorganisms are alive today.	✔		
Biological change accounts for the diversity of species developed through gradual processes over many generations. Biological adaptations, which involve the selection of naturally occurring variations in populations, enhance survival & reproductive success in a particular environment. How a species moves, obtains food, reproduces, and responds to danger are based in the species' evolutionary history	✔		

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LIFE SCIENCE			
Unit of Study: Classification, Diversity, & Adaptations of Organisms Over Time	✔		
Diversity and Adaptations of Organisms	✔		
Extinction of a species occurs when the environment changes and the adaptive characteristics of a species are insufficient to allow its survival	✔		
(Earth's history: Earth Science). Fossils indicate that many organisms that lived long ago are extinct. Extinction of species is common. Most of the species that have lived on the earth	✔		
The earth's processes we see today including erosion, movement of lithosphere plates, & changes in atmospheric composition, are similar to those that occurred in the past. Earth's history is also influenced by occasional catastrophes such as the impact of an asteroid or comet (Earth's History: Earth Science)			
Earth			
Unit of Study: Earth and Space Systems	✔		
Earth in the Solar System	✔		
The earth is the third planet from the sun in the system that includes the moon, the sun, eight other planets & their moons, smaller objects, such as asteroids & comets (solar system)	✔		
The sun, an average star, is central & largest body in the solar system	✔		
Most objects in the solar system are in regular & predictable motion which explains such phenomena as the day, the year, phases of the moon, & eclipses	✔		
Gravity alone holds us to the earth's surface & explains the phenomena of the tides			
Seasons result from variations in the amount of the sun's energy hitting the surface, due to the tilt of the earth's rotation on its axis & the length of the day			
Gravity is the force that keeps planets in orbit around the sun & governs the rest of the motion in the solar system			

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Unit of Study: Earth Processes			
Structure of the Earth System			
The solid Earth is layered with a lithosphere; hot, convecting; & dense metallic core			
Some changes in the solid Earth can be described as the "rock cycle." Old rocks at the earth's surface weather, forming sediments that are buried, then compacted, heated, & often recrystallized into new rock. Eventually, those new rocks may be brought to the surface by the forces that drive plate motions, & the rock cycle continues			