

# CCS COURSE MAP

## SUBJECT: EARTH AND SPACE SCIENCE

**GRADE LEVEL** 8<sup>th</sup>  
**COURSE LENGTH** Year

**REVIEWED** 2018-2019

Student Goals:					
		I	To gain appreciation for God and the world He created.		
		II	To learn laws of God and man that apply to earth and how it works.		
		III	To apply the laws of God and man that relate to earth and how it works.		
Student Outcomes					
		I	The students will be able to critically compare earth's physical history as told by the Word of God and as theorized by man.		
		II	The students will be able to explore man's collected knowledge of God's universe.		
		III	The students will be able to study basic science skills used in scientific investigation.		
		IV	The students will be able to examine earth's air, water, and surface processes.		
		V	The students will be able to explore earth's internal processes and rich resources.		
		VI	The students will be able to apply basic science skills used in scientific investigation.		
		VII	The students will be able to show their understanding of scientific knowledge through investigations, reports and projects.		
UNIT/ WEEKS	STANDARD	OBJECTIVES	ACTIVITIES/ASSESSMENT	RESOURCES	BIBLICAL INTEGRATION
Unit 1: Geology  5 weeks	8.3.1.1.1 8.3.1.3.2 8.3.1.3.3	Students will: ·understand the different viewpoints about the age of the Earth ·be able to explain the qualifications for a substance to be a mineral ·know special mineral properties ·define, explain and know examples of the	·Discussions ·Lab activities ·Worksheets ·Homework ·Quizzes ·Tests	· <i>Earth and Space Science</i> – Purposeful Design text ·Lab equipment ·Lab worksheets ·Quizzes ·Tests	·Science and faith are inseparable. ·God created all things for His own glory and for people to use. ·God wants us to take care of the Earth. ·We must know more about the Earth so that we can be wise stewards of the Earth.

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		<ul style="list-style-type: none"> <li>three types of rock</li> <li>·label and describe the structure of the Earth</li> </ul>			
Unit 2: Geologic Changes  3 weeks	8.3.1.2.1 8.3.1.2.2	Students will: <ul style="list-style-type: none"> <li>·know the difference between mechanical and chemical weathering</li> <li>·understand how water, wind and ice cause weathering and erosion</li> <li>·conduct a soil profile</li> <li>·learn soil types</li> </ul>	<ul style="list-style-type: none"> <li>·Discussions</li> <li>·Lab activities</li> <li>·Worksheets</li> <li>·Homework</li> <li>·Quizzes</li> <li>·Tests</li> </ul>	<ul style="list-style-type: none"> <li>·<i>Earth and Space Science</i> – Purposeful Design text</li> <li>·Lab equipment</li> <li>·Lab worksheets</li> <li>·Quizzes</li> <li>·Tests</li> </ul>	<ul style="list-style-type: none"> <li>·As we study the Earth, we see that many of the features of the Earth are constantly changing over time, reminding us that God is the true constant.</li> <li>·This world will one day perish, but God will provide a permanent place for His children.</li> </ul>

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<p>Unit 3: The Dynamic Earth</p> <p>4 weeks</p>	<p>8.3.1.1.3</p>	<p>Students will:</p> <ul style="list-style-type: none"> <li>·learn how the crust moves upon the mantle</li> <li>·learn the affects of the crust moving</li> <li>·identify earthquake and volcano zones</li> <li>·describe how an earthquake occurs</li> <li>·describe how a volcano occurs</li> <li>·draw and identify types of volcanic mountains</li> </ul>	<ul style="list-style-type: none"> <li>·Discussions</li> <li>·Lab activities</li> <li>·Worksheets</li> <li>·Homework</li> <li>·Quizzes</li> <li>·Tests</li> </ul>	<p>·<i>Earth and Space Science</i> – Purposeful Design text</p> <ul style="list-style-type: none"> <li>·Lab equipment</li> <li>·Lab worksheets</li> <li>·Quizzes</li> <li>·Tests</li> </ul>	<ul style="list-style-type: none"> <li>·Earthquakes depict the intensity of God’s judgment on His enemies. (Psalm 18:7)</li> <li>·God’s love for His people is just as great as His wrath for the wicked.</li> </ul>
<p>Unit 4: Water and Water Systems</p> <p>4 weeks</p>	<p>8.3.2.1.2 8.3.1.3.1 8.3.2.3.2</p>	<p>Students will:</p> <ul style="list-style-type: none"> <li>·draw and explain the water cycle</li> <li>·learn how the different sources of water affect the Earth</li> <li>·explain eutrophication and methods to prevent it</li> <li>·learn the parts of the ocean</li> <li>·understand the cause and movement of tides</li> <li>·learn what ocean explorations are teaching us</li> </ul>	<ul style="list-style-type: none"> <li>·Discussions</li> <li>·Lab activities</li> <li>·Worksheets</li> <li>·Homework</li> <li>·Quizzes</li> <li>·Tests</li> </ul>	<p>·<i>Earth and Space Science</i> – Purposeful Design text</p> <ul style="list-style-type: none"> <li>·Lab equipment</li> <li>·Lab worksheets</li> <li>·Quizzes</li> <li>·Tests</li> </ul>	<ul style="list-style-type: none"> <li>·Water is a key source for many animals and plants, and without water these organisms would not survive. God is the living water that humans cannot survive without.</li> </ul>

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Unit 5: Meteorology  5 weeks	8.3.2.1.3 8.3.2.2.1 8.3.2.2.2 8.3.2.2.3	Students will: ·list the components of the atmosphere ·explain and illustrate the oxygen, nitrogen, and carbon dioxide cycles ·relate the benefits of the atmosphere to how God sustains life on Earth ·learn, illustrate, infer the structure and benefits of the magnetosphere ·explain the purpose of the ozone layer and what we should do to preserve it ·describe and explain the factors that affect weather patterns	·Discussions ·Lab activities ·Worksheets ·Homework ·Quizzes ·Tests	<i>·Earth and Space Science – Purposeful Design text</i> ·Lab equipment ·Lab worksheets ·Quizzes ·Tests	·The study of the atmosphere leads to many hotly debated topics, and people become very passionate about these issues. It does good to be reminded that we should be just as passionate, if not more, about what Jesus has done for us.
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<p>Unit 6: The Environment</p> <p>3 weeks</p>	<p>8.3.2.1.2 8.3.4.1.1 8.3.4.1.2</p>	<p>Students will:</p> <ul style="list-style-type: none"> <li>· understand and describe renewable resources vs nonrenewable resources</li> <li>· have a knowledge of pollution and ways to reduce it</li> </ul>	<ul style="list-style-type: none"> <li>·Discussions</li> <li>·Lab activities</li> <li>·Worksheets</li> <li>·Homework</li> <li>·Quizzes</li> <li>·Tests</li> </ul>	<p>·<i>Earth and Space Science</i> – Purposeful Design text</p> <ul style="list-style-type: none"> <li>·Lab equipment</li> <li>·Lab worksheets</li> <li>·Quizzes</li> <li>·Tests</li> </ul>	<ul style="list-style-type: none"> <li>·God has given us immeasurable gifts which include the natural resources.</li> <li>·God shows us through these resources that we are to rest assured that He will provide for us.</li> </ul>
<p>Unit 7: Astronomy</p> <p>4 weeks</p>	<p>8.3.3.1.1 8.3.3.1.2 8.3.3.1.38.3.3.1.4 8.3.3.1.5</p>	<p>Students will:</p> <ul style="list-style-type: none"> <li>·learn the bodies of the solar system</li> <li>·describe the phases of the moon and how it affects life on Earth</li> </ul>	<ul style="list-style-type: none"> <li>·Discussions</li> <li>·Lab activities</li> <li>·Worksheets</li> <li>·Homework</li> <li>·Quizzes</li> <li>·Tests</li> </ul>	<p>·<i>Earth and Space Science</i> – Purposeful Design text</p> <ul style="list-style-type: none"> <li>·Lab equipment</li> <li>·Lab worksheets</li> <li>·Quizzes</li> <li>·Tests</li> </ul>	<ul style="list-style-type: none"> <li>·The Heavens declare the Glory of God.</li> <li>·With are increasing knowledge of the heavens, we are struck in awe of the power and greatness of God.</li> </ul>

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<p>Unit 8: The Great Expanse</p> <p>3 weeks</p>	<p>8.1.3.3.2 8.1.3.4.1</p>	<p>Students will:</p> <ul style="list-style-type: none"> <li>·learn about the stars and the star life cycle</li> <li>·understand the Creation of the Universe as God said it in Genesis</li> <li>·become familiar with space exploration of the past and of today</li> </ul>	<ul style="list-style-type: none"> <li>·Discussions</li> <li>·Lab activities</li> <li>·Worksheets</li> <li>·Homework</li> <li>·Quizzes</li> <li>·Tests</li> </ul>	<p>·<i>Earth and Space Science</i> – Purposeful Design text</p> <ul style="list-style-type: none"> <li>·Lab equipment</li> <li>·Lab worksheets</li> <li>·Quizzes</li> <li>·Tests</li> </ul>	<ul style="list-style-type: none"> <li>·God has a plan for everything He created. This principle is evident in every aspect of the universe.</li> <li>·We are reminded that God created the heavens. His great power keeps everything in its place.</li> <li>·Just as God knows each star by name, He knows each of us by name, and we have a purpose to fulfill.</li> </ul>
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