

# CLEAR REASONING AND APOLOGETICS

#### **Tailoring**

It is important to the classroom environment for all students to read the assigned rhetoric chapter or lesson. The focus of this seminar is for students to begin to develop the skills of clear reasoning and critical thinking.

When families have time for more:

- Assign questions from the appropriate Rhetoric Snippet on CC
   Connected®, Challenge Tier > At
   Home Sharing Center.
- Complete one or two end-of-chapter activities from *It Couldn't Just Happen*.
- Have students outline the It Couldn't Just Happen chapters instead of completing the Rhetoric Study Guide.

When families have a busy week:

- Do not assign *The Fallacy Detective* lesson exercises.
- Do not assign It Couldn't Just Happen Rhetoric Study Guide.

#### AT HOME

- Daily: Drill catechism questions using flashcards the student has created or oral questioning by the parent.
- Read It Couldn't Just Happen chapter and fill out the Rhetoric Study Guide or highlight the chapter. The assignment is determined by the teaching parent.
- Read *The Fallacy Detective* chapter(s) and answer the questions at the end of the chapter(s).
- Discuss The Fallacy Detective and It Couldn't Just Happen with parent.

#### IN COMMUNITY

- Review the process of studying a scientific text.\*
- Optional: Review the use of the highlighting system by discussing the various colors and their uses and providing examples from the text.
   Consider introducing one color at a time with a few weeks of practice between each introduction.
- Discuss It Couldn't Just Happen by asking five common topic questions, highlighting or outlining the chapter together in class, sharing favorite quotes from a chapter, reading aloud radio theater style, making a topic wheel, creating a class issue, using Trivium Tables®: Rhetoric to create quick persuasive essays for both sides of the issue, or using parts of Rhetoric Snippets available on CC Connected.
- Discuss *The Fallacy Detective* by reading the lessons aloud radio theater style, completing exercises as a group, writing fallacies using Challenge A literature or *It Couldn't Just Happen*, or using parts of Rhetoric Snippets available on CC Connected.
- Review catechism questions playing Jeopardy! or other games.
- \*Please see the article, "How to Learn from a Book" in the *Challenge A Guide* LTW appendix pages 175–176 for more information about the highlighting system.

## BEGIN THE CONVERSATION

Define the new vocabulary from **DEFINITION** It Couldn't Just Happen or The Fallacy Detective. How are the new fallacies similar **COMPARISON** to or different from each other? **CIRCUMSTANCE** How could we summarize this chapter of It Couldn't Just **RELATIONSHIP** What are the most persuasive arguments for creation or evolution in this chapter? **TESTIMONY** 

#### Highlighting Guidelines:

Pink highlighting: Words, names, dates, and places that seem important. Nouns that answer who, what, when, and where.

Green highlighting: Lists, questions, and structural clues such as ordinal numbers (first, second, etc.) and conjunctive adverbs\* (although, consequently, finally, however, then, therefore...).

Orange highlighting: Examples and figures of speech.

Blue highlighting: Interesting or important quotesthings to share with another person.

\*Trivium Tables®: English Grammar



## CATECHISM QUESTIONS

Numbers in parenthesis are the page numbers in *It Couldn't Just Happen*, September 2015 edition. All the catechism answers come from *It Couldn't Just Happen*. Classical Acts & Facts® Science Cards may be used as an optional resource.

1	What does the theory of evolution state?	The <b>theory of evolution</b> states that "life began as a chance combination of nonliving chemicals" (page 98).		
2	In the Psalms, what do the heavens declare?	The heavens declare the glory of God; the skies proclaim the work of his hands. Psalm 19:1 (pages 4–5)		
3	What does the second law of thermodynamics, often called the law of entropy, express?	The second law of thermodynamics, often called the law of entropy expresses "that anything that is organized tends, with time, to become disorganized" (page 8).		
4	What makes up our solar system?	Our solar system is "made up of our sun, eight planets and their moons, and thousands of other bits of matter called asteroids and comets" (page 14).		
5	Describe the sun.	"The sun is an unusual, small, yellow dwarf star that provides the perfect amount of energy for life on earth" (pages 22–24).		
6	According to Psalm 24, what belongs to the Lord?	The earth is the LORD's and everything in it, the world, an all who live in it. Psalm 24:1 (page 24)		
7	What does the greenhouse effect theory suggest?	The greenhouse effect theory suggests that as "the amount of carbon dioxide in the atmosphere is increasing," the "earth's temperature would rise, causing 'global warming'" (page 31).		
8	What is the importance of <b>ozone</b> ?	"Ozone absorbs 97%–99% of the sun's high frequency ultraviolet light, protecting life on the surface" of the earth "from harmful radiation" (page 34).		
9	What is the percentage of oxygen necessary for human life?	"On earth the air is 21% free oxygen" (page 35).		
10	What is the definition of cataclysm?	Cataclysm is "a violent and sudden change or a disaster" (page 48).		
11	What is the definition of uniformitarianism?	Uniformitarianism is the belief that Earth's past geological changes "can be fully explained by processes taking place today" (page 40).		



27	What is meant by the standard geological column?	The standard geological column is a theoretical column of rock believed to show various stages of fossilized life (page 103).		
28	What is the definition of homologous?	"In biology," homologous means similar structures or features of a plant or animal (page 117).		
29	What makes a woodpecker's beak unique?	A woodpecker's beak is designed with "a pad of spongy tissue that acts as a shock absorber" (pages 127–128).		
30	How does the penguin care for its young?	The penguin "has an apron of feathered skin to warm the egg," and it perfectly shares the care of its chick with its mate (pages 129–130).		
31	What is unusual about the tongue of a malleefowl?	The tongue of the Australian malleefowl is used to test if the nest temperature has changed "as little as 1/10 of a degree" (pages 130–131).		
32	How does a bat locate food?	A bat is a mammal that emits sounds up to 20 to 30 time a second to locate "flying insects" (pages 132–133).		
33	What is unique about the gazelle?	"The fast-running gazelle of Africa," is a mammal that would overheat its brain while running if not for a specially designed "cooling system" (pages 134–135).		
34	What is unique about the termite?	The termite is an insect that keeps the inside of its mound at 64 degrees, "no matter what" the temperature is outside. (pages 139–140).		
35	How does a bee communicate?	A bee uses very complicated dances to communicate (pages 141–142).		
36	What is unique about the army ant?	The army ant is an insect that creates the queen's nest using its own workers (pages 142–144).		
37	What is the definition of mutualism?	Mutualism is the relationship between two creatures that makes them mutually dependent upon each other to sustain life (page 150).		
38	What is the definition of mimicry?	Mimicry is the design of "a flower or animal structure" to look "like something else" (page 152).		
39	What is the "hopeful monster" theory?	The "hopeful monster" theory is an evolutionary theory that states that occasionally an animal births a "totally new creature" (page 95).		

(page 183).

For since the creation of the world God's invisible qualities—his eternal power and divine nature—have been

that people are without excuse (page 194).

tion of the Messiah (page 204).

times in the Old Testament alone!" (page 194).

excavation of the remains of the past." (page 195).

clearly seen, being understood from what has been made, so

"Here is what the Lord says,' is found more than 2,000

"Archaeology is the study of human history through the

Jesus is THE ONLY man to fulfill EVERY Old Testament prophecy about the birth, life, death, and resurrec-

49

50

51

52

Quote Romans 1:20.

What is significant

about the phrase, "Here is what the Lord says"?

What is archaeology?

Testament prophecy?

What is true about

**Jesus** and Old



53	What was the first miracle performed by Jesus, as documented in the Gospels?	Jesus "turned water in twenty-gallon jars into wine (John 2:1–11)" (page 206).	
54	Who was Lazarus?	Lazarus was Jesus' friend whom Jesus raised from the dead in John 11:1–44 (page 207).	
55	What is the meaning of the gap theory?	The gap theory suggests that there was an enormous gap in time between Genesis 1:1 and Genesis 1:2 (page 218).	
56	What is the day-age theory?	The day-age theory suggests that "there may have been long ages between each creative day" (page 218).	
What is the revelatory-day theory?		The revelatory-day theory suggests it took God seven days to reveal how He created the world to Moses (page 218).	



## Reasoning Study Guide

Parents: Make copies of this and the next page, and place in notebook for student use. For each page, SCAN chapter captions, charts, graphs, and section titles. READ the chapter. LIST any vocabulary you don't know; look up the word and record definitions. COMPLETE the chapter title, section headings, and summarize each section on this study guide as time allows in each week.

Chapter #Title:
Look at each picture, each graph, each section title, and the questions at the end of the chapter. What does the chapter seem to be about?
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- Wignerer
Introduction?
Section 1
Summary:
Section 2
Summary:
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Section 3
Summary:
Section 4
Summary:

Section 5	<del>ani wa na shu sucedi, ili tu ili 10 10 2 gipa</del>
Summary:	days
	Calodic aid of masse raticula
Section 6	
Summary:	
	ndroducian 2
Section 7	
Summary:	wanane
Section 8	
Summary:	S daltok
Section 9	
Summary:	
	varianti se
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Section 10	. A mount
Summary:	



### JEOPARDY!™

Points	Bible/People	Theories/ Definitions	Body	Animals	Miscellaneous
100	<b>2</b>	1	<b>9</b>	<b>28</b>	3
	<b>Psalm 19:1</b>	Evolution	% Oxygen	Homologous	Thermodynamics
200	6	7	20	29	<b>4</b>
	Psalm 24	Greenhouse Effect	Chemicals in Cells	Woodpecker	Solar System
300	17	10	21	30	5
	Copernicus	Cataclysm	Proteins	Penguin	Describe the Sun
400	18	11	24	31	8
	Who is Darwin?	Uniformitarianism	Chromosomes	Malleefowl	Ozone
500	19	12	43	<b>32</b>	13
	Francesco Redi	Continental Drift	Skin	Bat	Radio. Dating
600	40 Piltdown Man	15 Organic Matter	<b>44</b> Heart	33 Gazelle	14 Radio. Dating Inaccuracy
700	<b>42</b> Genesis 2:7	16 Good Science	45 Lungs	<b>34</b> Termite	<b>23</b> Galapagos Islands
800	<b>49</b>	22	46	35	25
	Romans 1:20	Natural Selection	Medulla Oblongta	Bee	Fossil
900	<b>50</b>	39	47	36	<b>26</b>
	the Lord says	Hopeful Monster	Cerebellum	Army Ant	Stratum
1000	<b>52</b> Jesus and OT Prophecy	55 Gap Theory	48 Cerebrum	37 Symbiotic	27 Standard Geo Column
1100	<b>53</b> John 2	<b>56</b> Day-Age Theory		38 Mimicry	41 "Hominid"
1200	<b>54</b> Lazarus	57 Rev-Day Theory			51 Archaeology

To play Jeopardy! with the Catechism questions, list the category topics on the board with point values as shown.

Students or teams can take turns picking a question to answer by indicating the category column and the point row, e.g.,

"Body for 400." The director or parent will ask the corresponding question. Students should give the answer. The director or parent can rearrange the point values for the questions under each category as the year progresses, if desired.

NOTE: The prompt words listed under the question numbers are included to help the director or parent remember which question is attached to that number. Directors/parents should ask the *complete question* as listed on the previous pages.