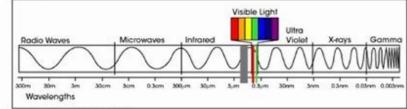


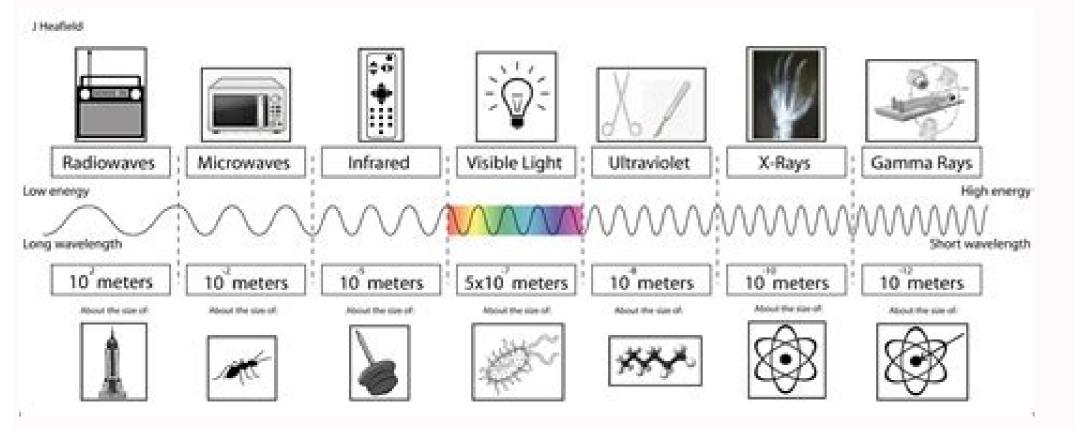
What Is Light?

Visible light is only one form of energy/light on the EM spectrum, shown below, but it's the only one we can see, it also is responsible for color.



Fun Facts about light:

- Light can travel from the sun to earth a total of about 93 million miles in 8 minutes! That might not sound very fast, but it would take a car 177 years (60 mph) to travel that far.
- Why does light show up in different colors? Light has different wavelengths, red light has the longest wave length and violet (blue-purple) has the shortest.
- In one year light travels 5.878 trillion miles, otherwise known as a light year
- Here are some websites with fun activities to do with light:
- Bubble experiment <u>http://www.exploratorium.edu/</u>
- snacks/bubble_tray/index.html
- Make a green gumball black <u>http://www.optics4kids.org/</u> home/content/classroom-activities/easy/make-a-green-gumball-black/
- Make your very own rainbow http://www.sciencekids.co.nz/
 experiments/makearainbow.html



Credits: 1 Prerequisites: Pre-algebra. I kept most math out of the course, but it comes up in a few places. Recommended: 9th or 10th Test Prep: This course does not correlate well with any one test. It covers some topics on the AP Environmental Science test and some on the CLEP Natural Sciences test. You would need to get other resources and do additional study to be able to do well on these tests. Course Description: The main topics covered include the earth's origin, composition, and structure; plate tectonics and the Hydroplate Theory; rock cycle; landscape evolution; geologic time; earth history; environment relationships; weather and climate; matter and energy cycles; and human impact. The second semester will cover topics in the study of astronomy, the earth, the moon, our solar system, stars, galaxies, and cosmology including dark matter and origins of the universe. Students will study these topics from both an old and young Earth perspective. Students will answer questions, take quizzes, complete labs, and write reports. The course culminates in a scientific report on the origins of the universe. Main course materials: GVL Astronomy, The 4th Day Alliance, Answers in Genesis (esp. New Answers Books 1, 2, and 3), Evolution Exposed Earth Science, GVL Earth Systems Notes: Hold onto all of your written work for this course as a record. When using the GVL site, you will not have access to the Discovery videos. Just follow the directions I give in the course as a record. When using the GVL site, you will also be weeding through two different points of view. Scientists will sometimes give completely opposite conclusions. Always be on the lookout for what is assumption. Materials needed: See Lessons 24, 60 and 67 Lesson 1(*) (Note that an asterisk * indicates that there is a worksheet on this lesson) Welcome to your first day of school! I wanted to give you one important reminder before you begin. Many of your lessons below have an internet link for you to click on anything else on that page except what the directions tell you to. DO NOT click on anything else on that page except what the directions tell you to a different website. Just stay focused on your lesson and then close that window and you should be right back here for the next lesson. Okay? If you didn't get here through My EP Assignments, I suggest you go there and create an account. (*)Print out the first quarter grading sheet or use the first quarter Excel version. Let's start at the beginning. Read What Is a Biblical Worldview? This is the end of your work for this course for your first day. You are allowed to move at your own pace (this is homeschooling), but it's intended you complete one lesson a day. Lesson 2 Read, "What's the Best Proof of Creation?" Lesson 2 Read, "What's the Best Proof of Creation?" Lesson 2 Read, "Where Did the Idea of Millions of Years Come From?" Lesson 5 Lesson 5 Lesson 6 You are going to read a chapter called Big Bang?, from the Answers in Genesis site. Scroll to the bottom and read the questions so that you can be thinking about them when they come up in the article. Then read the article. You can stop where it says 2.1, the summaries of reference articles, but you can read those if you find this stuff interesting and want to know more. Lesson 7 Answer the questions at the end of the chapter. Always answer in completely. Lose a point for any answer not in a complete sentence. Lesson 8 Lesson 9 Answer the questions at the end of the chapter. Always answer in complete sentences. Record 12 points for completely. Lose a point for any answer not in a complete sentence. Lesson 10 Lesson 11 Read page 5 about the structure of the Earth. You can also read about the layers of the Earth here. Click on the Earth's Structure tab. Draw/make a model of the Earth's structure. Figure out the relative thicknesses of the different layers. If you need a cheat for that... Do you know why the Earth's structure. of it all holds those molecules in place. Lesson 12 Lesson 13 Today watch this video on the Earth's radioactivity. I know this is hard stuff, but try to get the basic idea. Lesson 15 Read pages 2 and 3 on plate tectonics. You can use the activities on the page. but you don't have to do the word search. The videos aren't working. You can see videos here, though Ocean Trenches. Click on "Next Page" to move on. Click on "Next Page" to move on. Click on "Next Page" after the picture and read through the first page on the origin of trenches. Write a paragraph or tell someone a general summary of how the author believes ocean trenches formed. BTW, the author is an MIT graduate. Lesson 17 Read about different theories on the formation of trenches. I know it's a lock at and understand the images. Explain to someone what you can from it. Take what you can from it. Take a look at the comparison chart on the following page. Lesson 18 Read "Did the Continents Split During the Days of Peleg?" Lesson 19 Read the next chapter, Geologic Column. First, scroll down to the questions at the bottom of the page and read those. Then, go back to the top and read until you get to "Reference Article Summaries." Lesson 20 Answer the questions at the end of the chapter. Always answer in complete sentences. Record 12 points for completion. Lose a point for any answer that doesn't answer the questions. Stop, if you want, at the article summaries. Lesson 22 Answer the questions at the end of the chapter. Always answer in complete sentences. Record 12 points for completely. Lost a point for any answer that doesn't answer the question completely. Lost a point for any answer that doesn't answer the question completely. Lost a point for any answer that doesn't answer the question completely. Lost a point for any answer that doesn't answer the question completely. new vocabulary from the first page of the new unit on the rock cycle. You can also read page two on minerals. The links it tells you to read don't work. Don't worry about them. See what kinds of minerals are in your environment. Collect a couple of rocks to identify if you want. Lesson 24 (Materials: steel nail, glass you can scratch a little-maybe a compact mirror or something like that) Read about rocks. Use the key to identify your rocks. And/or identify these... Lesson 25 Lesson 26 Lesson 26 Lesson 27* (Materials: scissors and glue stick) Read about the rock cycle on page 6. If it's working, you can do the drag and drop activity. *Cut out the pieces on page 2 and arrange (and glue if you can) them to show the rock cycle. If you can't stand the thought of cutting and pasting, you can do page one of this worksheet. Record one point for each blank and up to 5 points for each piece in the right place. Lesson 28 Lesson 29 Read page 3 on erosion and soil. Use the links about soil texture and erosion. The link on soil profile doesn't work. You can read the first paragraph here about soil erosion. Lesson 30 Look at this weathering assignment. Go through the activity and answer the questions. (Make the video full screen. Pause the video to read it and then play and I will scroll down to the next part and show you where you should be reading.) Score up to 4 points. Lesson 31 Read ideas about the origin of the Grand Canyon. Lesson 32 Lesson 33 Answer the questions for chapter 18. Check your answers. Score up to 3 points for each complete answer written in complete answer written in complete sentences. Record your score out of 12. There's lots more on this topic in the online textbook if you are interested in reading more. Lesson 34 Read page 4 on mass wasting and stop after the box with arrows and five flashcard things. Where it asks, "Did you know," you just need to click on "Show Answer" and read all of the information. Turn the pages to go through all five. Stop here. Read through the presentation on mass wasting. Go back to page 4 and do the last six questions at the bottom of the page under the box with definitions. Answer before you check. Score one point for every correct answer. Record your score out of 5. (potential for one point extra credit) Lesson 35 Read the page on the water cycle. Read through the lesson on the hydrologic cycle. Why is the hydrologic cycle an important process for Earth? Maybe put another way, what's the global impact of the hydrologic cycle? Is there a beginning or end to the hydrologic cycle? Record up to 7 points and 1 point for the structure of your answer. Lesson 36 Read about aguifers and ground water. Watch the pumps and make observations. Answer questions 1 and 3 on the page in short paragraphs. Read the answers. Record up to 12 points. You only get points for any answer written in complete sentences. Lesson 37 Read page 6 about glaciers. DO NOT use the links on the page. Just read the top of the page. Use the following links to answer the questions about glaciers. Links: Record up to 16 points. Score up to two points for each complete answer. A complete answer answers the question was. Lesson 38 Read an article about the ice age. Lesson 39 Answer the questions for chapter 16 using the article you read on Lesson 38. Check your answers. Record up to 16 points for complete answers. Lesson 40 Read pages 1 and 2 on dating and work to learn the vocabulary. Lesson 42 Answer the questions for chapter 23 which you read on Lesson 41. Check your answers. Record up to 14 points for complete answers written in complete sentences. Lesson 43 Read about dating. Watch the dendrochronology presentation on the page. The root "chron" means tree. The root "dendro" means tree. The root "chron" means tree. The suffix "ology" means the study of. What's dendrochronology? Answer the questions at the bottom of page using the simulation at the beginning of the video on the page. Say something is a foot tall, and it is cut in half every 30 seconds (half life). Draw a graph (or make one online or on the computer) that shows its size versus time. How would the graph change if each half life was twice as long? (Activity adapted from source) Lesson 44 Read about carbon dating. Lesson 45 Answer the questions for chapter 7 which you read on Lesson 44. Check your answers. Record up to 14 points for complete answers written in complete answers. Record up to 14 points for your grade? Where did you lose points? Aim for a perfect score. Save all of your written work for your portfolio. Lesson 46(*) (*)Print out the second quarter grading sheet or use the second quarter Excel version. We've already read the creationist perspective of the fossil tour. Keep clicking on "More" and "Next." Read page 4 on fossils. Answer the questions at the bottom of the page. Lesson 47 Choose one of the interactive maps and then click the globe icon on the far left side. Choose your state or a state from the list and click "Zoom." Use the key you need to. Lesson 48 Read page 2 about Precambrian time. We're going to read the other point of view. We'll continue reading the alternative perspective as well. Watch the video on the page about volcanoes. Lesson 49 Read about volcanoes. Lesson 49 Read about volcanoes. Lesson 49 Read about volcanoes. read the article so that you can be looking for the answers.) Check your answers. Record up to 6 points for complete answers in complete answers in complete answers in complete answers in complete this. Lesson 51 to complete this. Lesson 51 to complete this. Finish reading the article about biological evolution and answering the questions at the bottom of the page. Record up to 22 points for complete answers in complete answers in complete sentences. Lesson 53 Lesson 54 Read about biomes on page 2. Make the video at the bottom of the page full screen and read about each biome. You need the temperature and precipitation data from each biome. Make two graphs that shows what each color stands for. Record 20 points for each graphs. 10 points for each graph: 1 point for each biome included, 1 point for title, 2 points for labels Lesson 55 Learn about aquatic biomes on page 3. Use this website to make a chart about animals, vegetation, climate, and location in the following biomes: freshwater, marine. Lesson 56 What is the biome where you live? Write a one-page description of your area that includes vegetation, animals, climate, temperature, and location. You can use this link to help you. Record up to 10 points for including each of the five areas and for writing in proper sentences and with an introduction and conclusion. Lesson 57 Read this packet of info (from wikispaces) and review all the info in the charts. You don't have to do any of the activities except on page 9. Write how the different levels are interdependent on the population and how is the population and how is the population interdependent on the community, etc. ? Lesson 58 Read page one about weather and climate. Write down the vocabulary and all of the questions with room to answer. Your job by the end of this unit is to have written in answers to all of those questions. Lesson 59 Read pages 2 and 3 on climate and atmosphere. (As usual, don't worry about the biscovery video. Don't worry about the biscovery video on climate.) Watch the video on page 3 on the ozone. Read about the sun's impact on weather. Don't worry about the missing video on climate and atmosphere. (As usual, don't worry about the sun's impact on weather.) Watch the video on page 3 on the ozone. Read about the sun's impact on weather. Lesson 58. Lesson 60(*) Materials: flashlight, ruler (if you can), graph paper Read page 4 about factors that affect climate. (*)Complete the lab on the chart and four questions to answer. Score up to 2 points each for completion. Record your

score out of 20. Lesson 61 Lesson 62 Go through this page on air masses and fronts. Read about wind belts. (You don't have to do the activity). Scroll down on each page to skim the articles on El Nino and La Nina. You should know in general what they are and their effect. Lesson 63 Read about severe weather. Read about thunderstorms and then use the links on the right to learn about other severe weather. Any answers you can answer today? They are due on Lesson 64. You can research any answers you haven't found in your reading. Lesson 64. You can research any questions you haven't yet from Lesson 58. There are nine guestions. Record up to 18 points for complete answers. Lesson 65 Read about the oxygen cycle. No need to watch this video on the hydrologic and carbon cycles. Draw a diagram of the carbon cycle. Record up to 10 points for including at least ten things on your diagram. Lesson 66 Watch the video on photosynthesis. Draw a diagram of the process of photosynthesis. Record up to 5 points for including at least five things on your diagram. Lesson 67 (*) Materials: Chocolate chip cookies (two different brands), milk, toothpick Read through page two on the oxygen and carbon cycles. Don't worry about videos on the page Make sure to read the questions and answers at the bottom of the page. (*)Complete the Cookie/Mining Lab. Record up to 36 points. Score up to 2 points for each duestion (24 points). Lesson 68 Lesson 69 Draw a diagram of the nitrogen cycle. Record up to 5 points for including at least five items. Write a paragraph about the phosphorus cycle. You can use page four to help you out. Record up to 5 points for five sentences in paragraph form (intro, detail, cons of using oil? Lesson 73 Learn about the greenhouse effect by watching the video. Work your way through this page on the sun's energy. Stop after you do the "Checking In" questions. Record up to 5 points for correct answers to the five questions. Record up to 5 points for correct answers to the five questions. Record up to 5 points for correct answers to the five questions. complete and four questions for you. What would it take to stabilize CO2? Record up to 28 points for completing the assignment. Lesson 76 Read "The Inconsistencies of Climate Change Alarmists." Lesson 77 On Lesson 78, you need to have complete and four questions for you. Concerned About Climate Change?" Lesson 78 Write complete-sentence answers to the questions for 7 complete answers. Lesson 79 Lesson 80 Read about solar power. Stop at Solar Power Tower. Watch the video on solar-powered cars. On Lesson 82, you'll be building something. Decide today what you need collected. On Lesson 86, you'll need up to 7 clean Ziploc bags of any size that would fit an index card inside, petroleum jelly, and up to 7 index cards. On Lesson 85, you'll need up to 7 clean Ziploc bags, a few paper towels, 15 lima beans, and vinegar. Lesson 81 Lesson 82 Lesson 83 Complete a science lab report on your project. Use this grading guideline to know what you should include. You can use a description instead of a photograph if you want. Use the rubric linked in #1 to score your project. Record up to 20 points. Lesson 84 Lesson 85 Complete the lab on the effects of acid rain. You have all week, but you will be working on another lab as well. Lesson 86 Today you're going to do a lab on air pollution. You don't have to leave this for 24 hours. Then come back to fill in your data chart and write your lab report as described. You need ziplock bags, index cards, petroleum jelly, magnifying glass. If you can't do this lab, you can do this online virtual lab, but warning: this is harder. (Click on Step 1 in the menu. Use the simulator linked on the page.) You can start your lab report today. Lesson 88 Continue work on your labs. (acid rain and air pollution) Make each part complete. You can always go back and see the assignments by clicking on the Lesson link, if you are using My EP, and scrolling up through the lessons. These labs start on Lesson 85. Can you add to either conclusion about it's application, how you could study it further, or what other experiments might change the outcome). Do you have any questions? Lesson 89 Continue work on your labs. (acid rain and air pollution) The reports should end with well-written paragraphs. You can always go back and see the assignments by clicking on the Lesson link, if you are using My EP, and scrolling up through the lessons. These labs start on Lesson 85. Can you add to either conclusion about it's application, how you could study it further, or what other experiments might give additional information (or how changing the experiment might change the outcome). Do you have any questions? Lesson 90 Complete your labs. Score up to 6 points for completing a thorough introduction to the lab report. Score up to 16 points for completing your table. Take a point off for any blank. Score up to 25 points for your conclusions. Take off 3 points for any plank. Score up to 25 points for your conclusions. Take off 3 points for any blank. (lab), 87 (lab), and 90 (report) to record your scores. The totals work out to the same thing. Figure out your second quarter grading sheet or use the third quarter grade. Save your written work for your portfolio. Lesson 91(*) (*) Print out your third quarter grading sheet or use the third quarter grade. introduction, we're going to watch a documentary on astronomy. Today watch this video on the inner planets. Lesson 92 Watch part 2 on the Earth, Moon, and stars. Lesson 93 Watch part 3 on Jupiter and the outer planets. Lesson 94 Watch part 6 on telescopes. Lesson 97 Watch part 7 on constellations. Lesson 98 Watch part 8 on constellations. Lesson 100 Lesson 101 Lesson 103 Read the introduction to the new unit. We have all heard how the Mayan calendar stops in the year 2012 and goes no farther? Do you know it is because the calendar stops in the year 2012 and goes no farther? Then in the 1500s a man named Nicolas Copernicus started a revolution by calculating that the Sun was the center of the solar system. That made a lot of people like Johannes Kepler and Sir Isaac Newton went on to show that not only is the Earth not the center of the Universe, but we are a tiny planet revolving around a minor star on the edge of a pretty average galaxy. This module will explore some of the ancient astronomers and the contributions of Copernicus, Kepler, and Newton. -Edited from (source) Read the key terms for this unit. Please try to understand some of the root words at work here. That will make the astronomy terms easier to understand. Helio (as in aphelion, heliocentric, and perihelion) refers to the sun, from the Greek word for sun, "helios." Learn the terms using the flashcards. Read about the early astronomers. Lesson 104 Read about myths people believe about space. I had heard the one about the Great Wall of China, so I did a little looking around. It can be seen from space, but only under certain conditions. Write a paragraph on one that you know people believe, and why it's not true. Lesson 105 List at least two contributions to astronomy by each of the following civilizations: Mayans, Greeks, Chinese, Egyptians. Do your own research. Record your total number of points out of 8. Score up to 1 points. There's a chance of earning 2 extra points.) Lesson 106 Read The Copernican Revolution. Little note: It's rather silly to say that the sun was rotating around the earth because Joshua told the sun to stand still. Joshua wouldn't know the science of how the world worked. He just wanted it to stay light. God gave him all the light he needed and all that he had asked for. It's also rather silly to say that the Bible is unscientific because it says the sun stood still. Despite all we know today, we still talk that way. For example, all of us, even scientists, describe the sun's movement across the sky in terms of "rising" and "setting." Read about retrograde motion. Lesson 107 Read about Galileo. You can skim down to where it talks about fileo. You can skim down to where it talks about Galileo. You can skim down to where it talks about Galileo. You can skim down to where it talks about Galileo. You can skim down to where it talks about Galileo. You can skim down to where it talks about Galileo. You can skim down to where it talks about Galileo. You can skim down to where it talks about Galileo. You can skim down to where it talks about Galileo. You can skim down to where it talks about Galileo. You can skim down to where it talks about Galileo. You can skim down to where it talks about Galileo. You can skim down to where it talks about Galileo. 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You can skim down to where it talks about Galileo. You can skim down to where it talks about Galileo. You can skim down to where you score out of 50. (Potential for 3 points extra credit.) Answer everything in complete sentences and don't leave any data blank. Label your graphs. Lesson 110 Lesson 110 (*) Complete this lab on gravity. Use this interactive to follow the directions linked above. Lesson 113 Take the quiz on gravity. Record your score out of 10. Do you know your vocabulary? On Lesson 115, you need to have completed a timeline that includes ten astronomers. Include several pieces of info for each, all written in complete sentences. Make your timeline on paper, on the computer, or online. Lesson 114 Work on your timeline. Add images of the astronomers. You will score up to 10 points for including an image of each astronomers. You will score up to 10 points for including up to ten astronomers. a timeline, with appropriately labeled and spaced dates. You will score up to 20 points for including up to twenty correct entries about their discoveries. Lesson 115 Complete your timeline. Record your score out of 50. Score up to 10 points for including up to ten astronomers. to 10 points for creating the timeline in order and with the appearance of a timeline, with appropriately labeled and spaced dates. Score up to 20 points for including up to twenty correct entries about their discoveries. Lesson 116 Lesson 117 Write out the practice problem. Match the types of electromagnetic radiation. (source) Answer the wavelength problems. (source) Red light has a wavelength of 720nm. What is its frequency? (Answer: 4.2 x 10^14hz) A radio signal has a frequency of 7.1 x 10^14 Hz is shot through a diamond and has a wavelength of 1.75 x 10^-7 m. What is the speed of the light in the diamond? (Answer: 1.2 x 10^8 m/s) Record up to 5 points for up to ten correct, half a point each. Lesson 118 Read about light. Keep moving through all those pages. You don't need to watch the electromagnetic spectrum. Answer the questions. You can look up any information you feel you need to in order to answers. Score up to 2 points each. Record your score out of 20. Lesson 122(*) (*)Complete the Emission Spectrum Lab. Use this video of the simulation to complete the lab. (source) Score up to 30 points: 20 points for following all the directions and completing it, 10 points for answering completely the last two questions. Record your score out of 30. Lesson 123 Lesson 124 Lesson 125 Lesson 125 Lesson 125 Lesson 125 Lesson 126 Research discoveries and why. Record up to 5 points for writing at least five sentences that completely answer the question. (It must begin with an introduction sentence that tells what it shows.) Lesson 128 Learn about the Earth's tilt and the seasons by watching the video. Now study this simulation. Write out at least three observations of what it shows. Record up to 6 points for up to six observations. Record your score out of 3. (Potential for extra credit. Study the simulator!) Lesson 129 Answer the questions. Of the year? (Answers: summer - longest, which marks the longest, shortest, and equinoxes - equal) What determines the seasons? (Answer: the tilt of the Earth and the angle the Sun's energy hits it, not the Sun's distance to Earth) Make a sundial. Record up to 5 hours accurately labeled on it. While you're waiting on the next hour, write down some consecutive sunrise/sunset times. Make observations. How does it change each day? Lesson 130 Lesson 131 Lesson 132 Watch the video on the cycles of the sky? You don't have to use the applet. You can type in answers, and when you hit enter, it will tell you if you were correct. Lesson 133 Look at the constellations for the month you can see and label what you can see and l can. Lesson 134* Click on each of the listed months and look at the shown constellations. (Source) Fill in the star map with the outlines of the winter constellations (in Red), the names of the winter constellations (in Blue), and the names of at least five bright stars (in Green). You will need to do some research to find them. There are drawing tools in most word processing programs that will allow you to draw on the image above, or you can print out this sheet and draw them by hand. Record your score up to 30 points. Score up to 2 points each for up to 5 constellations drawn, 5 constellations named, 5 stars named. Lesson 135 Lesson 137 Lesson 138 Lesson 138 Lesson 139 Record your score out of 50 points. Score up to 4 points for each one included. There are four pieces of information expected for each one: picture, description, and the specific info requested in the assignment. Score up to 10 points for including a bibliography with at least 5 sources listed in an appropriate way. Lesson 140(*) Materials: flour, cake pan, cinnamon, magnifying glass, tweezers (*)Complete this lab on craters. You can print out the chart, or just make your own to fill in. You DO NOT need to take pictures. Score up to 25 points for a completed chart. Score up to 20 points for complete answers in complete sentences. Score up to 5 points for a complete conclusion. Record your score out of 50. Lesson 141 Read through the key terms. Then do the crossword puzzle. (Hint: FULLMOON is one of the answers.) Watch the video on the Moon's phases. Lesson 142 Lesson 145 Lesson 145 Lesson 145 Lesson 145 Lesson 145 Lesson 146 Lesson 146 Lesson 147 We're going to learn about the planets. Think of how you can take and organize notes on size, on atmosphere, etc., and put the information for each planet together on that topic so you can compare them. Learn about Mercury. Watch a video on Mercury. Lesson 148 Learn about Venus, Continue taking organized notes. Watch a video on Mercury. Watch a video on Mercury. stats and facts. You can learn your weight on Jupiter here. You can write it down for the rest of the planets as well. Watch a video on Jupiter and its moons. Lesson 151 Learn about Saturn. Continue taking organized notes and click for stats and facts. Watch a video on Jupiter here. You can write it down for the rest of the planets from the closest to the sun to the farthest? Also order them according to the speed of their orbit. (Answers: Mercury, Venus, Earth, Mars - same for both) Record your score out of 10. Score up to two points each (including the last set). You can award partial credit. Take the guiz on page 10 on Neptune and Uranus. You can use your notes. Record your score out of 6. Read about the Kuiper Belt. Try the self assessment on page 13. I don't think those guizzes should have taken a lot of time. If you have time, check out this video on the Oort Cloud. Lesson 154(*) (*)Complete this activity on moon rock density Please use this website to get the equations and graphs. Record your score for completing all the parts and answering all the parts and definitions for the new unit on stars. You can use the matching activity to help you learn the definitions. Go through the three pages on the formation of stars, the life cycle of stars, and fusion in stars. Try the Test Byte. Lesson 156 Read about the challenges of having a fusion power plant. Record up to 5 points for 5 sentences written in paragraph form that include benefits and challenges of having a fusion power plant. Lesson 157 Go through the page on the fusion process. Don't click on any links. You won't be doing any of the quizzes and things like that. You are just reading for information. Now read this page on fusion. Watch the video to read and answer the questions. Record the correct answers for all five steps. Complete the page on helium burning. (Don't click on the interactive.) Watch the video to read and answers for all five steps. Score up to 10 points for recording 10 correct answers for all five steps. Score up to 10 points for recording 10 correct answers for all five steps. (This "question" is edited from GVL Astronomy.) Score up to 10 points for complete answers in complete answers in complete answers in complete astar. Then go through this page and do the student activities at the bottom of the page. Record your score out of 45 points. Score up to 15 points each for your diagram Score up to 2 points for each of 15 definitions. Lesson 162(*) Lesson 163 Then take the Crash Course. How far it is from the Earth to the edge of the Milky Way? (Find the answer.) How long would it take to get there? Lesson 164 Watch this video on galaxies and part 2. Read about the number of stars Lesson 165* *Complete the Milky Way lab by completing these worksheets. (There are parts of the worksheets whited out. That's because I took out those questions. The last question on the last page is just for fun for those who want to try it. It's not on the answer key.) (Use the first link to complete it. You don't have a model, but you don't need it for your worksheets.) Check your answers. Record your score out of 40. Score points for completing each portion, including answering in complete sentences. Lesson 166(*) (*)Follow the directions and create a classification for these galaxies. Fit the galaxies into four categories. Describe each category so that others would place the galaxies into the proper category. List the category name or number, its description, and which galaxies from the link would belong in that category. Now place the galaxies according to Hubble's categories. Score up to 15 points for fitting each galaxy into a category. Compare the two sets of categories. Which is better? Why? Score up to 5 points for your conclusion (in a complete sentence!) Record your score out of 35. Lesson 167 You can read more about the different types. Take the quiz. Did you learn anything new? (source, pages 5 and 8) Lesson 168 Lesson 169 Lesson 170(*) (*)Follow the directions and do your best to decide if each card is an observation or a guess and for which theory. Write a short paragraph telling which you think is most based on evidence. Record your score out of 15. Lesson 171 Does the Bible refer to life in outer space? Evidence for Alien Life? Aliens are not something to get fascinated about. There are many testimonies of people who do believe they were able to get rid of them by calling on the name of Jesus. The "aliens" fled like demons do in such instances. I feel we have to believe the testimonies of Christians who say they have faced this terrifying ordeal and not just dismiss aliens. I personally believe that aliens are just one more deception of Satan. I just want to warn you to not seek info on them, etc. I, of course don't believe in aliens as real extraterrestrial beings. I think they are demons trying to deceive people, and I don't want to see one! Lesson 175. Keep track of your sources. You must have more than one! You will score up to 25 points for at least five paragraphs. Is the person's contribution to astronomy and creation perspective clearly shown? Does the report have a conclusion and introduction? Score another five points for including a quote. Make sure you show where it is from. Lesson 173 Lesson 174 Lesson 175 Finish your report on a creation astronomer. Here's a site to help you list your sources in the proper format. Record up to 30 points for at least five paragraphs and including a quote (5 points). Questions to consider when scoring: Is the person's contribution to astronomy and creation perspective clearly shown? Does the report have a conclusion and introduction? Lesson 176 Look through the 15 evidences of a young universe. Decide which you think are the most convincing. Think over all you have learned this year, not just about astronomy but about astronomy but about our earth as well. Write one last report. Write one last report. Write one last report. Write one last report. sentences (25 points). You must have at least five sources (5 points). You must have specific information, conclusion, main idea sentences, transitions, and good grammar (5 points). You must have the proper structure including an introduction, conclusion, main idea sentences, transitions, and good grammar (5 points). write on the origins of the universe. Use scientific fact to show your points. Keep track of your sources! Lesson 178 Continue to write on the origins of the universe. Use scientific fact to show your points. Keep track of your sources! sources! Lesson 180 Present your report. I suggest reading it out loud to an audience (5 extra credit points). You must have at least five sources (5 points). You must have at least five sources (5 points). You must have at least five sources (5 points). structure including an introduction, conclusion, main idea sentences, transitions, and good grammar (5 points). Congratulations on finishing the course faithful and true God. Take the polls. Donate/Say Thanks Here is a site about getting started with astronomy and studying the skies if you want to pursue it further on your own. Disclaimer The assignments, the collection of links, the structure of the curriculum and the files created by this site all belong to this blog owner and may not be copied and published to another site or used for any commercial benefit. Copyright 2022 Lee Giles All Rights Reserved

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