

Chapter 16 ASSESSMENT MENU

This menu is in place of a Chapter 16 Quiz. You **MUST** do the center square, if not you will not receive full credit. You must choose 2 other squares to complete as well. You may do a 4th square for a maximum of 5 points extra credit. Other than the “Extra Credit” square, each square is worth 15 points.

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| <p>SQUARE 1: Create a diagram of the Sun’s layers. For each layer, please include the name, temperature, and defining features (sunspots, sun flares, convection cells, nuclear fusion.).</p> | <p>SQUARE 2: Create a diagram showing the life cycle of a star. You must include pictures, temperature, and luminosity. Also, please report which stage in the life cycle our Sun is.</p> | <p>SQUARE 3: Create a diagram showing the visible light spectrum labeling the colors with their names and wavelengths. Also, choose 3 elements and draw the emission spectrum of each.</p> |
| <p>SQUARE 4: Read this article about the Orion Nebula, http://www.scientificamerican.com/article/massive-orion-nebula-s-origins-uncovered/. After reading, 1. Write a paragraph summary about the article. 2. Write about 2 people mentioned. 3. Choose and define 5 new words from the article.</p> | <p style="text-align: center;"><u>MUST DO SQUARE:</u> <u>Please create your version of an H-R diagram (pg 342). Be sure all labels are on your diagram. Next, find an example of each type of star and place it on the H-R diagram.</u></p> | <p>SQUARE 5: Research a constellation. Find the following facts: - Approximate distance away from earth (Ly) - 2-3 different TYPES of stars within it - Myth of how it was created - What season it appears in Earth’s sky. Write a paragraph with this information and include a picture.</p> |
| <p>SQUARE 6: Research about Supernovas and write a paragraph. Be sure to include: - 2 types of Supernovae - results of a Supernova - 2 historical Supernovae - any other interesting facts that you may find. Be sure to include a picture with your paragraph.</p> | <p>SQUARE 7: Make a table including our Sun and 3 other stars (a white dwarf, red giant, and supergiant). Find out the distance each star is from Earth. In the table include, the distances in light years (Ly), astronomical units (Au), kilometers (km), meters (m) and miles (mi).</p> | <p>SQUARE 8: Read this website, http://www.sciencelives.com/spectroscopy.html. Write a summary (6-8 sentences) about how scientists use spectroscopy to find out what types of elements are in stars. Be sure to give examples.</p> |

DUE DATE: _____