# IDS 100 KWL Chart Exemplar

|  |  |  |  |
| --- | --- | --- | --- |
| **K**  What I **know** about my topic | **W**  What I **want** to know | **L**  What I **learned** | **Keywords**  List **keywords** I could use to continue exploring my topic |
| -Space exploration -  I already know the following about this topic:   * There is no air in space. * There is no gravity is space. * There are many different galaxies in space. | This is what I want to know about my topic:  1. Why does a star die?  2. Why after a star die does super nova start?  3. Why after super nova does a new star form?  4. How does to lack of gravity affect the human body? | What I learned when exploring my topic through the **social science** lens:   * The dangers of loading fuel in super-cold temperatures. * NASA pay Russia to ferry astronauts to the International Space Station.   **Have any of your questions been answered by the article you read? Explain.**  In this article I read about how Elon’s Falcon 9 can fly farther than other space rockets, however it does come at a risky cause as to achieve farther distance more fuel need to be put in the rocket. How this was brought upon doing so was to make the fuel super-cold in which its less dense and more fuel can fit into the tanks. However, this needs to be done quickly with the astronauts on board, and there may be a risk of an explosion from a spark or accident. Also, in the article states why NASA pays Russia for flights to the I.S.S. due to the two accidents one from 1986 and one from 2011 making NASA unable to fly on U.S. soil.  **Citation:**  **Davenport, C. (2018, May 5). Elon Musk's Space X is using a powerful rocket technology. NASA advisers say it could put lives at risk. Gale Onefile.**[https://go-gale-com.ezproxy.snhu.edu/ps/i.do?p=STND&u=nhc\_main&id=GALE%7CA537477935&v=2.1&it=r&sid=ebsco](https://go-gale-com.ezproxy.snhu.edu/ps/i.do?p=STND&u=nhc_main&id=GALE%7CA537477935&v=2.1&it=r&sid=ebsco%20) | Space exploration and biotechnology  Space Technology  Super nova |
| What I learned when exploring my topic through the **natural science** lens:   * How the lack of gravity affects the body * What test are used to determine the lack of gravity causing problems in the human body   **Have any of your questions been answered by the article you read? Explain.**  Yes. In this article is states how an astronaut is affect during flight and the duration of being in space. I have learned about space radiation and how it can affect a slew of health problems. Also, test have been with rats with microgravity to study bone loss and muscle atrophy.  **Citation:**  Toward biotechnology in space (2017). Biotechnology Advances, 35(7), 905-932[.  https://resolver-ebscohost-com.ezproxy.snhu.edu/openurl?sid=EBSCO%3aedselp&genre=article&issn=07349750&ISBN=&volume=35&issue=7&date=20171115&spage=905&pages=905-932&title=Biotechnology+Advances&atitle=Toward+biotechnology+in+space%3a+High-throughput+instruments+for+in+situ+biological+research+beyond+Earth&aulast=Karouia%2c+Fathi&id=DOI%3a10.1016%2fj.biotechadv.2017.04.003&site=ftf-live](file://C:\Users\scotty\Downloads\. %20https:\resolver-ebscohost-com.ezproxy.snhu.edu\openurl?sid=EBSCO:edselp&genre=article&issn=07349750&ISBN=&volume=35&issue=7&date=20171115&spage=905&pages=905-932&title=Biotechnology+Advances&atitle=Toward+biotechnology+in+space:+High-throughput+instruments+for+in+situ+biological+research+beyond+Earth&aulast=Karouia,+Fathi&id=DOI:10.1016\j.biotechadv.2017.04.003&site=ftf-live) |
| What I learned when exploring my topic through the **natural science** lens:   * **How long a star last** * **What causes super nova**   **Have any of your questions been answered by the article you read? Explain.**  Yes. In the article is states the conditions on which a star can go into super nova. From there it shows depending on the size of the star, will determine the time in which a star can last.  **Citation:**  Broyles ML. Supernovas. Salem Press Encyclopedia of Science. 2020. Accessed January 30, 2021. <https://search-ebscohost-com.ezproxy.snhu.edu/login.aspx?direct=true&db=ers&AN=89317238&site=eds-live&scope=site> |
| What I learned when exploring my topic through the **humanities** lens:   * I have learned about observation of super nova has been over one thousand years.   **Have any of your questions been answered by the article you read? Explain.**  Yes. In this article it states about Chinese records had provided valuable information of celestial events dating back from the year 185. Because where china is located, it makes for the best observations of supernovas. Also, a Danish astronomer by the name of Tycho Brahe, because of his recognition of his studies of supernovas in 1572; he became devoted to a lifetime of collecting information on stars and planets.  **Citation:**  Broyles ML. Supernovas. Salem Press Encyclopedia of Science. 2020. Accessed January 30, 2021. <https://search-ebscohost-com.ezproxy.snhu.edu/login.aspx?direct=true&db=ers&AN=89317238&site=eds-live&scope=site> |