**“Where Do Elements Come From?” Close Reading**

**Initial Observations**

Skim the reading and make some observations. What are some things you notice? Be prepared to share your observations.

**Vocabulary**

Note 4 words that are unfamiliar to you. Write them down and then write down you think they might mean based on the context. Be prepared to share words and what you think they mean.

|  |  |
| --- | --- |
| **Word** | **Possible Meaning** |
| 1. |  |
| 2. |  |
| 3. |  |
| 4. |  |

**Summaries and Reflections**

1) Write a one sentence summary that captures the main point of each chunk. Do this first before the reflections. 2) Write a one sentence reflection about the section. Be prepared to share your summary.

Chunk 1 (paragraphs 1-3):

*Summary:* This section is about…

*Reflection:* I wonder…

Chunk 2 (paragraphs 4-7):

*Summary:* This section is about…

*Reflection:* I wonder…

Chunk 3 (paragraphs 8-11):

*Summary:* This section is about…

*Reflection:* I wonder…

Chunk 4 (paragraphs 12-17):

*Summary:* This section is about…

*Reflection:* I wonder…

Chunk 5 (paragraphs 18-20):

*Summary:* This section is about…

*Reflection:* I wonder…

Chunk 6 (paragraphs 21-22):

*Summary:* This section is about…

*Reflection:* I wonder…

Chunk 7 (“Finding Chemicals Inside Stars” Section):

*Summary:* This section is about…

*Reflection:* I wonder…

**Text Dependent Questions**

1. Why can’t stars use fusion to create elements heavier than iron? Cite the paragraph(s) where you find the best evidence of this.

2. What can stars less massive than our sun create? What can stars more massive than our sun create? Cite the paragraph(s) where you find the best evidence of this.

3. At what stage of a star are elements heavier than iron created and released? Cite the paragraph(s) where you find the best evidence for this.

4. What is the difference between the “s” process and the “r” process? Cite the paragraph(s) where you find the best evidence for this.

5. What can be found in interstellar clouds? Cite the paragraph(s) where you find the best evidence for this.

Chunk 1 (paragraphs 1-3): end is just before “Stellar Ovens”

Chunk 2 (paragraphs 4-7):

Chunk 3 (paragraphs 8-11): starts with “A star is a balancing act between two huge forces. “

Chunk 4 (paragraphs 12-17): “How stars make elements heavier than iron” section

Chunk 5 (paragraphs 18-20): “Exploding and cooking elements at the same time“ section

Chunk 6 (paragraphs 21-22): “Our stellar origins” section

Chunk 7 (Finding Chemicals Inside Stars Section):