

Name _____ Section _____ Date _____

LT: I can explain why some elements are formed during the life of a star and d others are not.

Do Now: Check off all of the elements you see in this list:

- | | | |
|-----------------------------------|------------------------------------|--------------------------------------|
| <input type="checkbox"/> Hydrogen | <input type="checkbox"/> Sand | <input type="checkbox"/> Iron |
| <input type="checkbox"/> Helium | <input type="checkbox"/> Palladium | <input type="checkbox"/> Caffeine |
| <input type="checkbox"/> Wood | <input type="checkbox"/> Gold | <input type="checkbox"/> Water |
| <input type="checkbox"/> Carbon | <input type="checkbox"/> Oxygen | <input type="checkbox"/> Nitrogen |
| <input type="checkbox"/> Silver | <input type="checkbox"/> Nickel | <input type="checkbox"/> Einsteinium |

Can you list any more elements? _____

The Creation of Elements

Part 1: Which elements are in there?

I'll pass out another sheet for this activity. Afterwards, please answer:

1. Why did I assign this activity? What did I want you to learn?

2. Prediction: Why do you think the creation of elements is a threshold?

Part 2: Video Clip Questions

Bullet points/phrases are okay.

1. (2:33) When you add heat (or energy) to a pot of cold water, what happens? Does the pot stay still? What does this tell us about when we add energy to hydrogen atoms?

2. (3:52) Why do some stars simply fade away, while others eventually start fusing helium into carbon?

3. (5:19) Will all stars eventually be able to generate iron?

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Creation of Elements Exit Slip

List 3 things you learned today.

List 2 things you want to learn more about.

List 1 thing you are confused about. (If you aren't confused about anything, write me a potential quiz question, with the answer)

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Creation of Elements Exit Slip

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