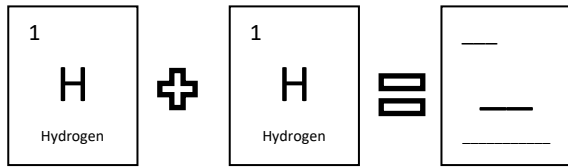
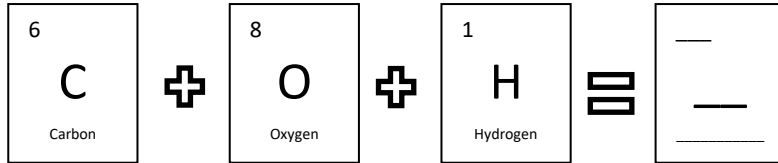


1. Gold comes from _____.
2. There is more _____ than anything else!
3. How did the periodic table look 14 billion years ago? Explain why.
4. How long after the big bang were the first atoms created?
5. What were the first 2 elements?
6. All of the hydrogen and helium was drawn together into big clouds called _____.
7. What does fusion do to atoms?
8. Fusion _____ stars is responsible for elements _____ through _____ on the periodic table.

9. Solve the Fusion example below



10. Solve the fusion example below



11. Correctly create our own fusion example (just like #9 and #10). ****Remember fusion created elements 3 – 26, so be careful.**

12. A star is going to need more _____ to make an atom that has more than _____ protons.

13. What is the most powerful explosion in the universe?

14. What causes a supernova?

15. How are stars and the periodic table of elements connected? Explain your answer using details and complete sentence.

Activity 2 – Star Clusters

- There are two types of star clusters: _____ and _____
- Most open clusters are _____, and very few are older than roughly _____ million years.
- What force makes the stars in a cluster interact and sometimes cause stars to be “flung away?”
- Most globular clusters are over _____ billion years old.
- All the stars in a globular cluster are born at _____, and so they’re the _____.
- Globular clusters have less heavy elements thus probably do not have _____